



AppLoader

User Guide

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Introduction

AppLoader is Automai's tool for load testing business applications. With AppLoader, you can create test Scenarios to verify the performance of your application under varying load levels. AppLoader simulates real user load activity for applications, so you can be confident that a new or upgraded application meets expected performance requirements before bringing it into a live environment. With AppLoader, you can stress test the performance of your IT systems by simulating peak traffic from multiple locations simultaneously.

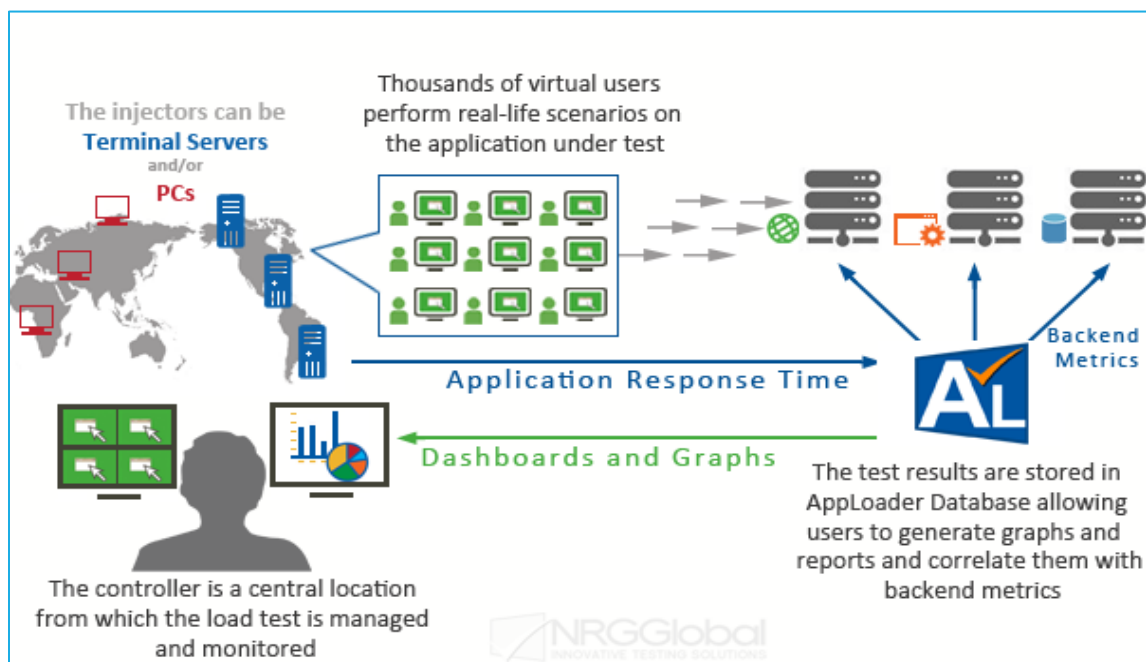
AppLoader gives you the answers to the following questions:

- **Does your application perform properly under load?**
- **Do application response times meet your target requirements?**
- **How many simultaneous users can your application handle?**

[Click here to watch AppLoader introduction video guide.](#)

AppLoader architecture

Start by creating a scenario with ScenarioBuilder. Send your scenario to the AppLoader Controller and incorporate it into a test plan. The Controller then sends the Scenarios to the Injectors to perform. The AppLoader Controller manages, drives, and monitors load test in real time. AppLoader collects application response times and back-end metrics, and provides test analyses through summarized and detailed reports and graphs.



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Basic terminology

The following terms are commonly used in AppLoader and are discussed in detail throughout this guide:

AppLoader Controller: The central console from which tests are managed and monitored in real-time. Includes the report writer which generates summarized and detailed test analyses through reports and graphs.

ScenarioBuilder: The tool for creating sequences of user actions on the application under test.

Injector: The Windows server that hosts rUser sessions which execute the Scenarios that were built in ScenarioBuilder.

VStation: The VStation is the component that is installed under each rUser. The VStation is what will perform the playback of the scenario during the load test, without it the rUser will not perform the Scenario playback. The VStation is programmed to start automatically once the rUser is logged in.

rUsers: The “real user” accounts which exist in the Windows environment and are administered through AppLoader.

rUserManager: This is the component of Injector that is used to oversee the rUsers during Scenario playback.



Launch AppLoader

After creating your Scenarios, launch the AppLoader Controller web interface to manage, run, and analyze your tests. After installing AppLoader, a shortcut will be created on the desktop. Launch the AppLoader Controller by:

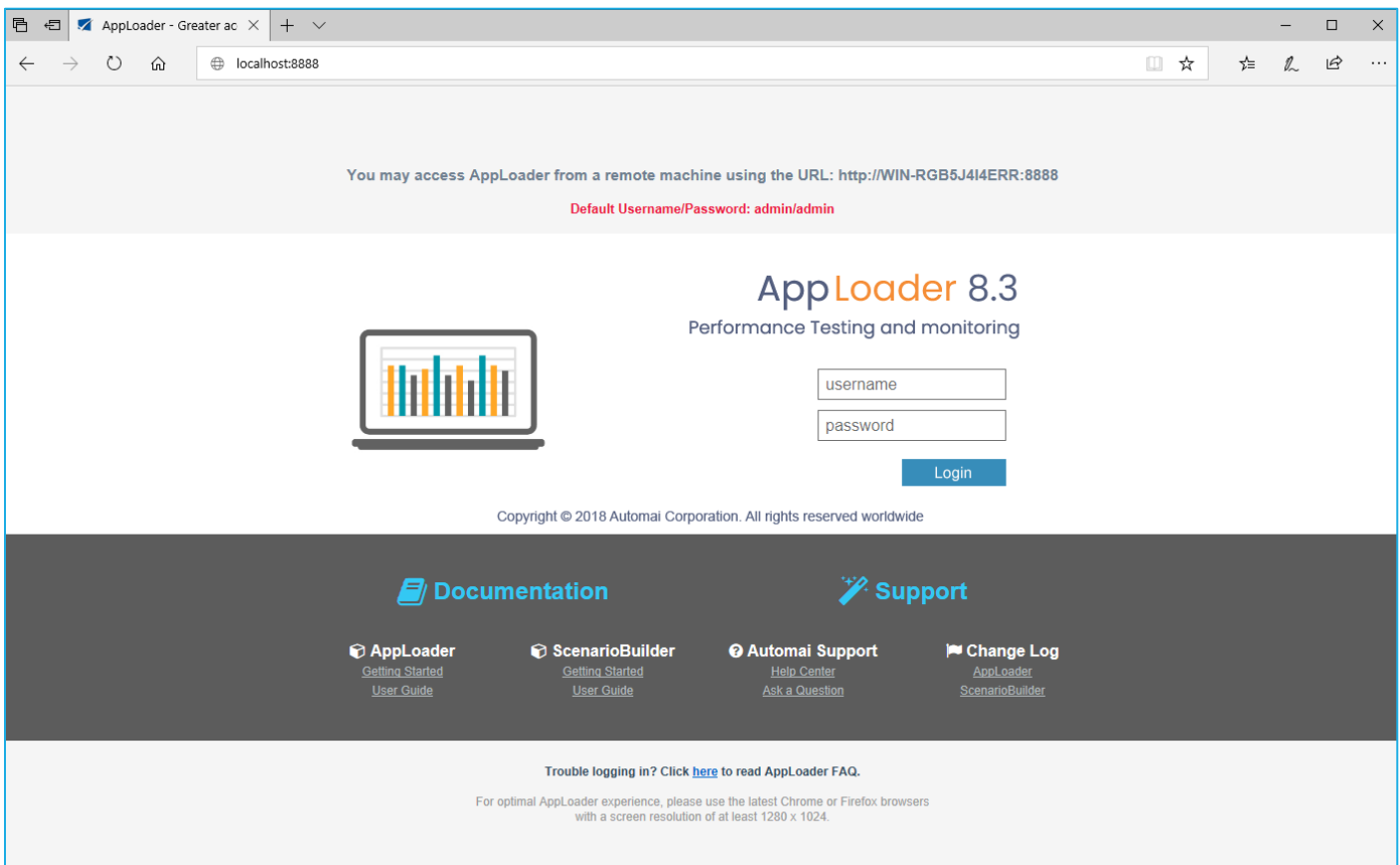


Double-click the AppLoader shortcut to launch the AppLoader Controller in your default browser.



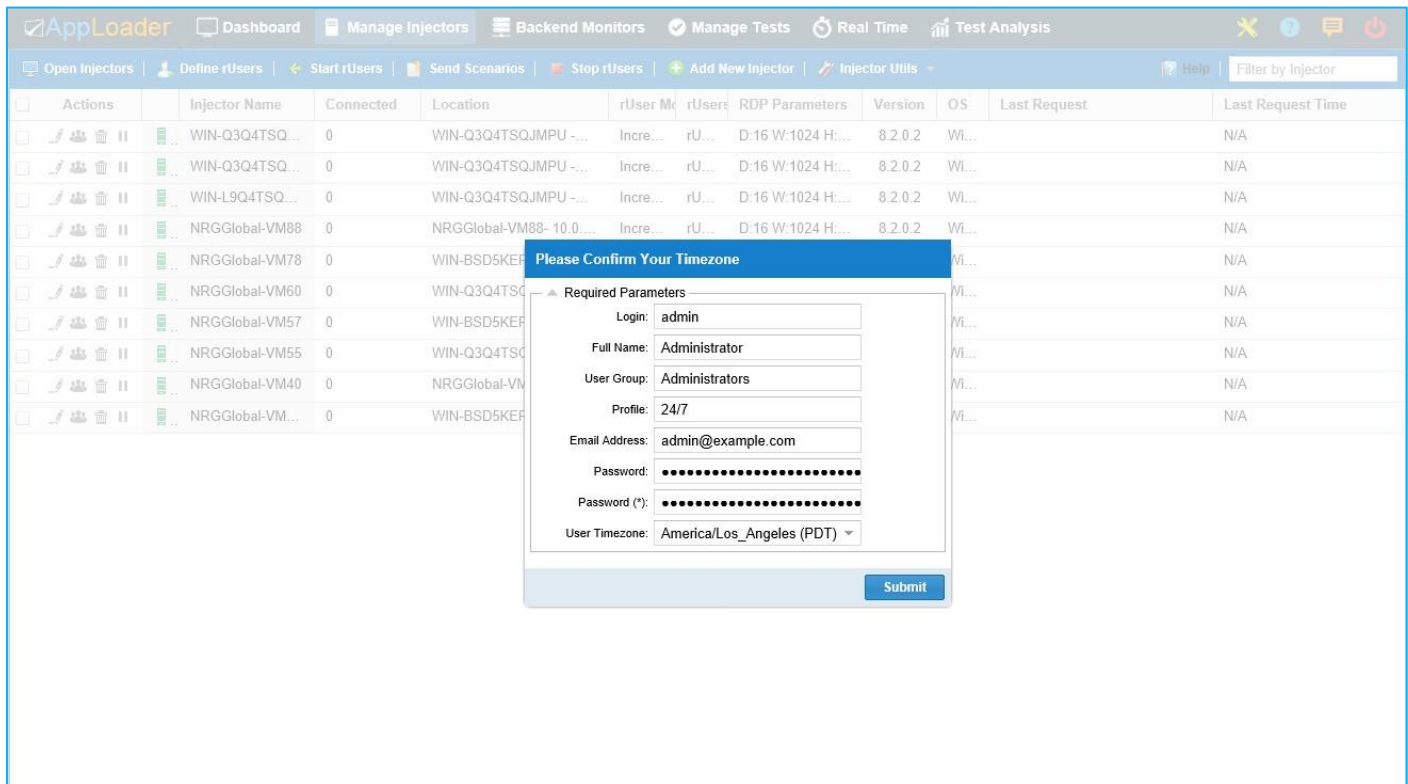
You can also launch the AppLoader Controller by entering IP address of the PC/Server (or “localhost”) and Web Server Port number into the address bar of a web browser.

Log in to AppLoader (User Name: *admin* / Password: *admin*)

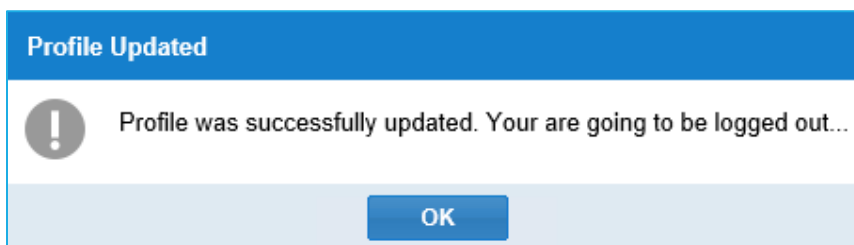


User Guide: AppLoader

The first time that AppLoader is launched with the default credentials, user form window will appear:



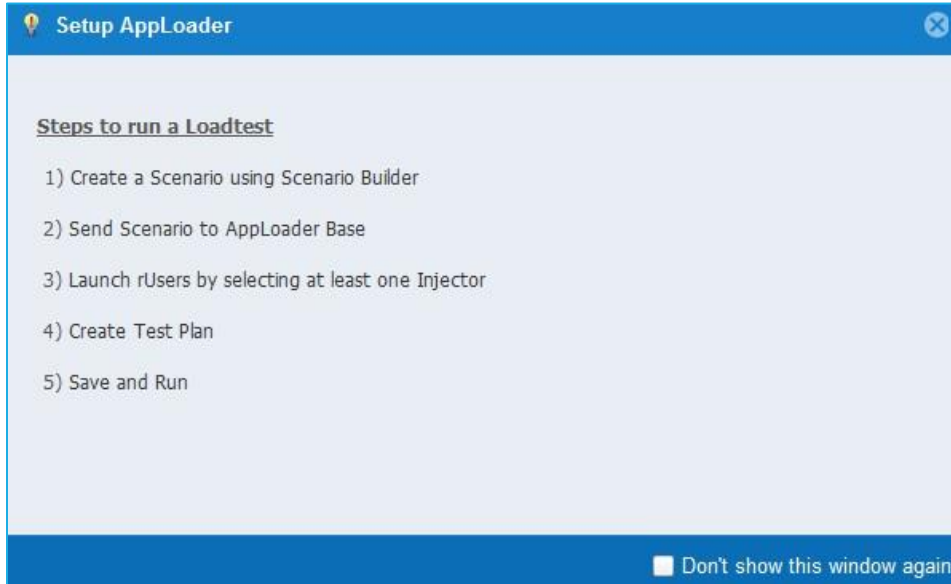
You can confirm or change the default values. Once you click on “Submit”, you will be logged out and the AppLoader services will be restarted.



! All graphs, data and reports will be based on user’s respective timezone. The default timezone is the system’s timezone.



The next time that AppLoader is launched, the following window will appear:



 If the steps depicted in this window have already been taken, check the “Don’t show this window again” box and close the window.



AppLoader Controller – default view

The AppLoader Controller opens to the “Manage Injectors” page;

AppLoader

Dashboard

Manage Injectors

Backend Monitors

Manage Tests

Real Time

Test Analysis

Open Injectors

Define rUsers

Start rUsers

Send Scenarios

Stop rUsers

Add New Injector

Injector Utils

Help

Filter by Injector

Actions	Injector Name	Connected	Location	rUser Mode	rUsers	RDP Parameters	Version..	OS	Last Request	Last Request Time
	WIN-Q3Q4TSQ...	0	WIN-Q3Q4TSQJM...	Incremental	rUser	D:16 W:1024 H...	8.2.0.2	Windows Server...		N/A
	WIN-Q3Q4TSQ...	0	WIN-Q3Q4TSQJM...	Incremental	rUser	D:16 W:1024 H...	8.2.0.2	Windows Server...		N/A
	WIN-L9Q4TSQ...	0	WIN-Q3Q4TSQJM...	Incremental	rUser	D:16 W:1024 H...	8.2.0.2	Windows Server...		N/A
	NRGGlobal-VM88	0	NRGGlobal-VM88...	Incremental	rUser	D:16 W:1024 H...	8.2.0.2	Windows Server...		N/A
	NRGGlobal-VM78	0	WIN-BSD5KEPB0...	Incremental	rUser	D:16 W:1024 H...	8.2.0.2	Windows Server...		N/A
	NRGGlobal-VM60	0	WIN-Q3Q4TSQJM...	Incremental	rUser	D:16 W:1024 H...	8.2.0.2	Windows Server...		N/A
	NRGGlobal-VM57	0	WIN-BSD5KEPB0...	Incremental	rUser	D:16 W:1024 H...	8.2.0.2	Windows Server...		N/A
	NRGGlobal-VM55	0	WIN-Q3Q4TSQJM...	Incremental	rUser	D:16 W:1024 H...	8.2.0.2	Windows Server...		N/A
	NRGGlobal-VM40	0	NRGGlobal-VM40...	Incremental	rUser	D:16 W:1024 H...	8.2.0.2	Windows Server...		N/A
	NRGGlobal-VM...	0	WIN-BSD5KEPB0...	Incremental	rUser	D:16 W:1024 H...	8.2.0.2	Windows Server...		N/A

This is the main interface you see when you login to the AppLoader Controller.



Navigation pane



The “Navigation Pane” of the AppLoader Controller provides a guide to creating, running, monitoring and analyzing your tests. Clicking on each button on the “Navigation Pane” will display that section’s options. Below is a description of each section of the “Navigation Pane”:

Dashboard: *Latest load test results, Start rUsers; Run Load Test; End Load Test; Restart rUsers.*

View Load Test Detailed Report and Load Test Data.

View Real Time Graph and Failure screenshots.

Manage Injectors: *Open Injectors; Create rUsers; Start rUsers; Send Scenarios; Edit Injectors.*

Manage the Windows environment where real users (hereinafter referred to as *rUsers*) interact with the application(s) under test.

All registered Injectors appear in the active window next to the buttons in the Left Pane.

Backend Monitors: *Create monitors that report the health of application backend servers (CPU, Memory, Disk I/O, Network, processes, services, etc.).*

From the “Backend Monitors” page, define “Systems” and specify their metrics. Add Systems to “Templates” for inclusion in “Test Plans”.

Templates allow for the correlation of the backend data with application response time data, through graphs and reports.

Manage Tests: *Create & Edit Test Plans; Create & Edit Execution Flows; Attach Scenarios; Parameterize Data; Define Rendezvous Points; Add Alerts*

The Test Plan formulates and defines the parameters of the load test, including Scenarios, rUsers, Variables distribution, Backend Templates, Rendezvous Points, Ramp-up and Steady State times.



Real Time: *Monitor Test in Progress*

View rUser status (connected, disconnected, playing, completed, etc).

View current test status (response times, graphs, error screenshots, backend alerts, number of failures, etc.) in real time.

Restart rUsers, add more rUsers to the test, end the load test, and reset the load test.

Test Analysis: *Analyze Current or Previous Tests*

View response time graphs and reports, from higher level to detailed level.

Export complete test data and graphs into Excel or PDF formats.

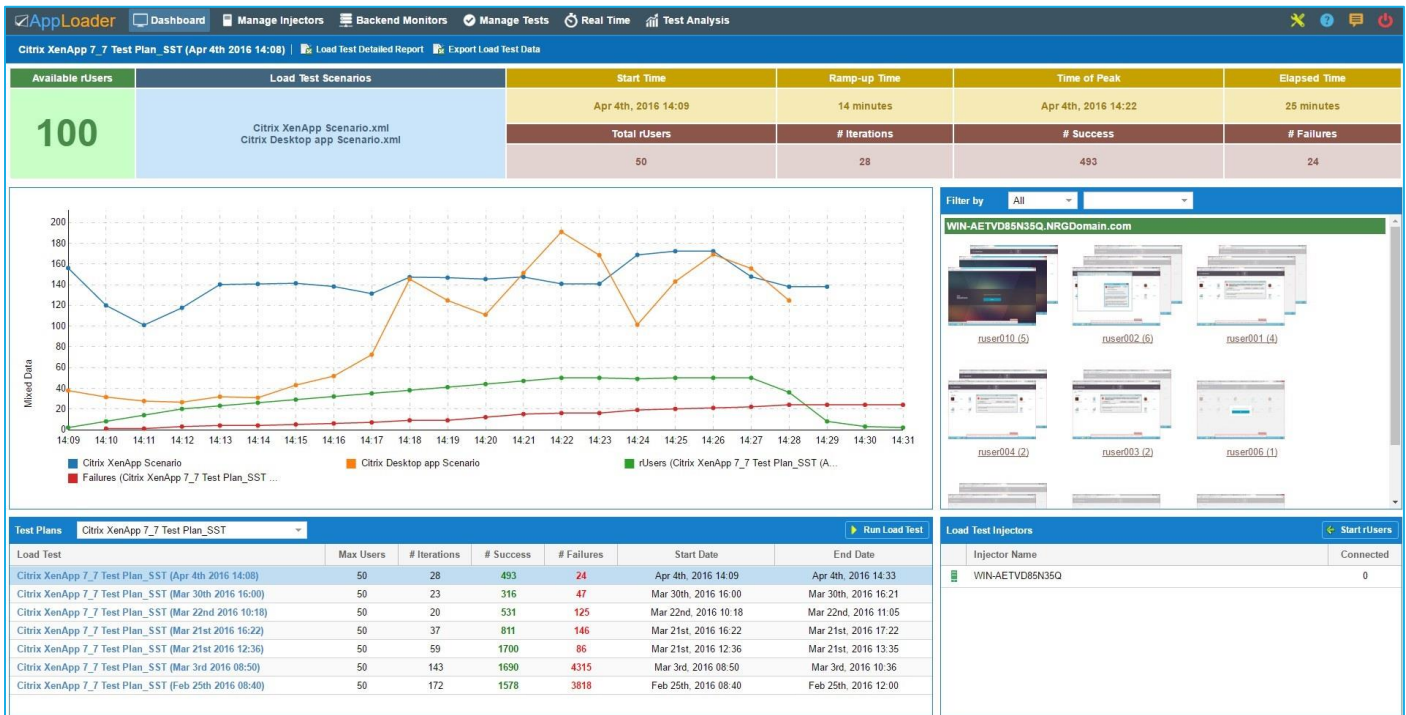


Dashboard



Dashboard gives you a quick look at your recent activity —the latest load test you have run and its results, for instance — and lets you restart your load test directly. When a load test is started, the Dashboard can be used to monitor activity as the load test runs. It also provides you with immediate access to a gallery of all screenshots showing images from actual desktops, captured at the time of failures.

To open the “Dashboard” page, simply click the “Dashboard” button in the top of the Controller.



At the top of the page, you will see information about the testing scenario(s), number of available rUsers, number of playing rUsers while the test is in progress, number of iterations, number of successes, number of failures, total duration for the test, etc. Please refer to “[Test Analysis](#)” and “[Analyze Current Test](#)” sections for more details.

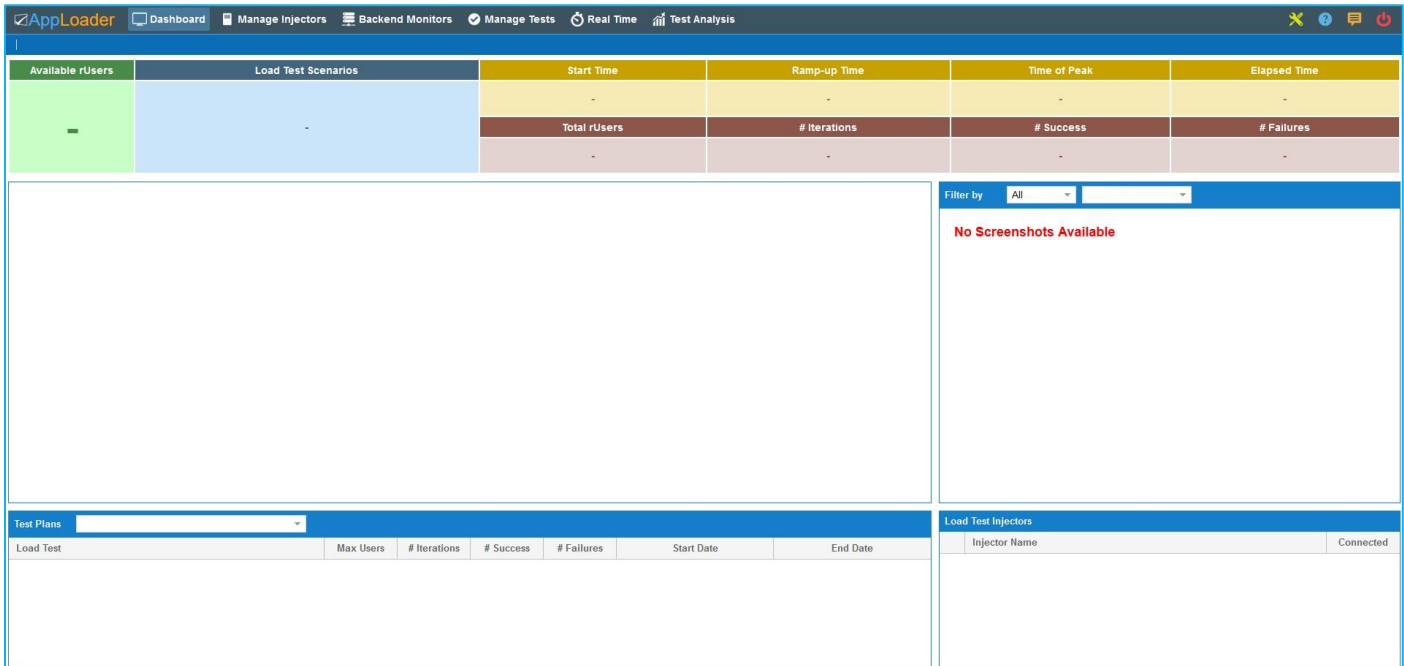
Citrix Test Plan (Nov 24th 2015 19:05) is now playing					
Playing	Load Test Scenarios	Start Time	Ramp-up Time	Time of Peak	Elapsed Time
50	Desktop app Test scenario.xml	Nov 24th, 2015 19:06	N/A	N/A	9 minutes
	Citrix Log on Test Scenario.xml				
	Citrix XenDesktop Test Scenario.xml				
	Web app Test scenario.xml				
	Citrix XenApp Test Scenario.xml				
		Total rUsers	# Iterations	# Success	# Failures
		-	1402	1335	67



You will be able to see the load test reports once the load test has completed.



 If there is no load test in the Controller, the Dashboard interface will be as image below and a warning message will be displayed.

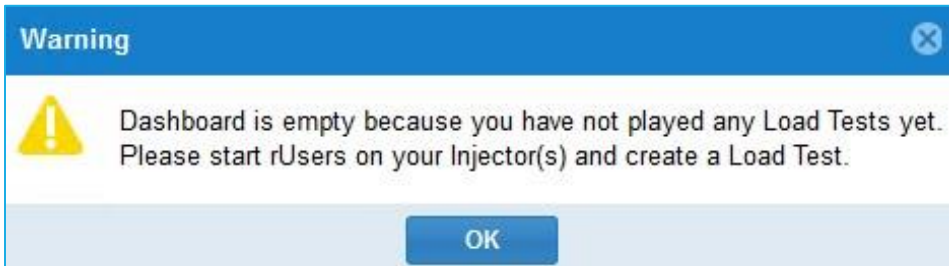


The screenshot shows the AppLoader Dashboard interface. The top navigation bar includes links for Dashboard, Manage Injectors, Backend Monitors, Manage Tests, Real Time, and Test Analysis. The main content area is divided into several sections:

- Available rUsers:** A green box with a minus sign.
- Load Test Scenarios:** A blue box with a minus sign.
- Summary Table:**

Start Time	Ramp-up Time	Time of Peak	Elapsed Time
-	-	-	-
Total rUsers	# Iterations	# Success	# Failures
-	-	-	-
- Test Plans:** A dropdown menu.
- Load Test Injectors:** A table with columns for Injector Name and Connected.

A large empty white box is present in the center of the dashboard. A filter by dropdown is set to 'All'.



Warning

 Dashboard is empty because you have not played any Load Tests yet. Please start rUsers on your Injector(s) and create a Load Test.

OK



Manage Injectors

Manage Injectors

Injectors are the Windows servers which host the rUsers that play back Scenarios, thereby “injecting” a load on the application under test. Upon installation, Injectors register themselves with the AppLoader Controller. Injectors that have been properly configured during installation can be viewed from the “Manage Injectors” page of the Controller. If an installed Injector is not listed on this page, please reinstall the Injector ensuring that correct Controller address and port properties are provided.

To open the “Manage Injectors” page, simply click the “Manage Injectors” button in the top of the Controller.



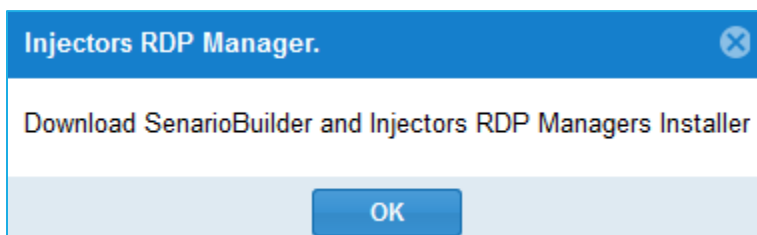
Note that the AppLoader Controller defaults to the “Manage Injectors” page upon opening.

AppLoader Dashboard Manage Injectors Backend Monitors Manage Tests Real Time Test Analysis										
Open Injectors Define rUsers Start rUsers Send Scenarios Stop rUsers Add New Injector Injector Utils Help Filter by Injector										
Actions	Injector Name	Connected	Location	rUser Mode	rUsers	RDP Parameters	Version	OS	Last Request	Last Request Time
	WIN-Q3Q4TSQJMPU	0	WIN-Q3Q4TSQJMPU - 10.0.0.90	Increme...	rUser	D:16 W:1024 H:768 E:0	8.2.0.2	Windows Server 2012 ...		N/A
	WIN-Q3Q4TSQJMPU	0	WIN-Q3Q4TSQJMPU - 10.0.0.66	Increme...	rUser	D:16 W:1024 H:768 E:0	8.2.0.0	Windows Server 2012 ...		N/A
	WIN-L9Q4TSQJNJO	0	WIN-Q3Q4TSQJMPU - 10.0.0.112	Increme...	rUser	D:16 W:1024 H:768 E:0	8.2.0.2	Windows Server 2012 ...		N/A
	NRGGlobal-VM88	0	NRGGlobal-VM88 - 10.0.0.88	Increme...	rUser	D:16 W:1024 H:768 E:0	8.2.0.0	Windows Server 2012 ...		N/A
	NRGGlobal-VM78	0	WIN-BSD5KEPB0L4 - 10.0.0.78	Increme...	rUser	D:16 W:1024 H:768 E:0	8.2.0.2	Windows Server 2012 ...		N/A
	NRGGlobal-VM60	0	WIN-Q3Q4TSQJMPU - 10.0.0.60	Increme...	rUser	D:16 W:1024 H:768 E:0	8.2.0.2	Windows Server 2012 ...		N/A
	NRGGlobal-VM57	0	WIN-BSD5KEPB0L4 - 10.0.0.57	Increme...	rUser	D:16 W:1024 H:768 E:0	8.1.2.3	Windows Server 2012 ...		N/A
	NRGGlobal-VM55	0	WIN-Q3Q4TSQJMPU - 10.0.0.55	Increme...	rUser	D:16 W:1024 H:768 E:0	8.2.0.2	Windows Server 2012 ...		N/A
	NRGGlobal-VM40	0	NRGGlobal-VM40 - 10.0.0.40	Increme...	rUser	D:16 W:1024 H:768 E:0	8.2.0.2	Windows Server 2012 ...		N/A
	NRGGlobal-VM122	0	WIN-BSD5KEPB0L4 - 10.0.0.122	Increme...	rUser	D:16 W:1024 H:768 E:0	8.2.0.2	Windows Server 2012 ...		N/A

Open Injectors

Open an RDP session for the selected Injectors. A shortcut will be created in AppLoader Program Group to start this RDP session. Double click on the file *injectors.irdp* after it has downloaded successfully.

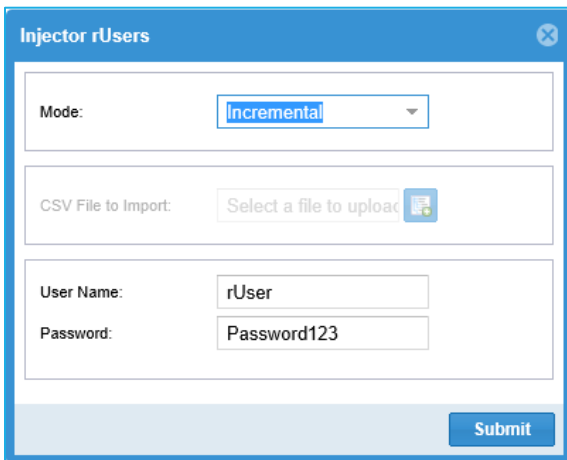
Make sure that you have already Installed INJrdpManager on you PC. If not you can download and install Injectors' Manager here.



Define rUsers

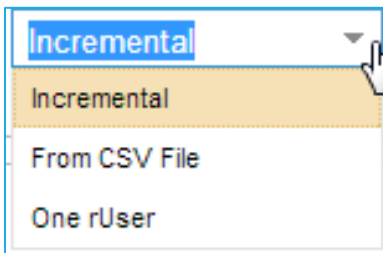
Defining rUsers is the first step in preparing a load test. Once rUsers are defined, this step does not have to be repeated, *unless* rUsers are deleted. (Note: Define rUsers only applies to AppLoader suite if it is installed onto a server, if the AppLoader suite is installed on a PC, rUsers cannot be defined.)

Click the “Define rUsers”  **Define rUsers** button in the menu bar. “Injector rUsers” form opens;



The “Injector rUsers” form is a web-based interface for defining user accounts. It features a blue header with the title “Injector rUsers” and a close button. The form contains three main sections: a “Mode” dropdown menu set to “Incremental”, a “CSV File to Import” section with a “Select a file to upload” button and a file icon, and a “User Name” and “Password” section with text input fields containing “rUser” and “Password123” respectively. A “Submit” button is located at the bottom right of the form.

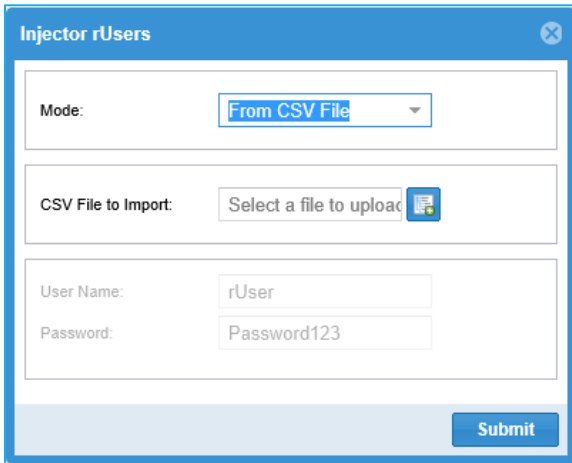
Mode: Select the type of rUser accounts to create from the drop down menu (*Incremental; From CSV File*).



- *Incremental* – Choose this mode if testing in a non-domain environment. Local user accounts will be created simultaneously on both the Windows server *and* within AppLoader.
- *From CSV File* – Choose this mode if your testing environment requires that you use authenticated domain users. Domain user accounts must already exist on the Windows server. A CSV (comma separated values) file containing username, password, and domain must be prepared in advance to create users in this mode. [Click here for more on how to format a CSV file for this mode.](#)
- *One rUser* – Choose this mode to allow multiple session IDs to use one username account.

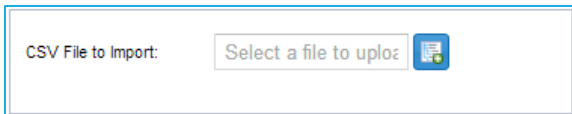
If *From CSV File* is chosen the **CSV File to Import** field will appear:





The screenshot shows the 'Injector rUsers' application window. The 'Mode' dropdown is set to 'From CSV File'. Below it, the 'CSV File to Import' section has a text box with 'Select a file to upload' and a file selection icon. The 'User Name' field contains 'rUser' and the 'Password' field contains 'Password123'. A 'Submit' button is at the bottom right.

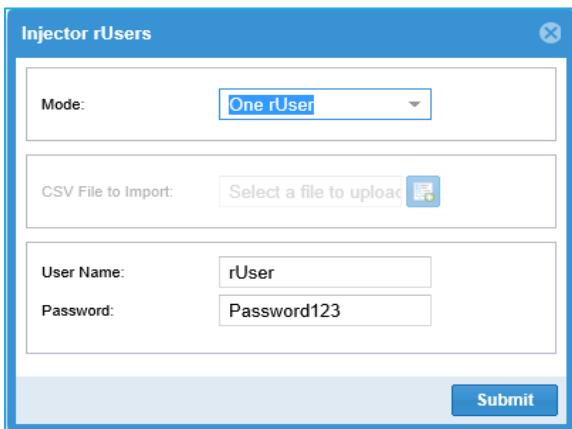
CSV File to Import: If using “From CSV File” mode, navigate to the CSV file containing the user accounts to be uploaded to Apploader.



This is a close-up of the 'CSV File to Import' section, showing the text 'Select a file to upload' and the file selection icon.

Clicking on the  icon will allow you to browse through your folders for a CSV file.

If *Incremental* or *One rUser* modes are selected the following:



The screenshot shows the 'Injector rUsers' application window with the 'Mode' dropdown set to 'One rUser'. The 'CSV File to Import' section is present but disabled. The 'User Name' field contains 'rUser' and the 'Password' field contains 'Password123'. A 'Submit' button is at the bottom right.

User Name: Provide a generic user name for rUser accounts. Apploader will add a sequential numeric suffix to make each account unique (e.g. *ruser001*, *ruser002*, *ruser003*, etc...). User names must be compliant with the Windows server requirements. Recommended value: *ruser*)

Password: Enter a password for the rUser accounts. Password must be compliant with the Windows server requirements. Recommended value: *Password123*).



Click “Submit” to issue the “Define rUsers” command.



If rUsers are not created prior to launching a test, Injector will automatically create rUsers for the test.

FORMAT CSV FILE

For testing in an environment that requires authenticated domain users, select the “From CSV File” mode when creating rUsers. **Be sure that the domain user accounts have been created on the Windows Server hosting the Injector prior to “Creating” rUsers with AppLoader.**

Create a CSV file (no header row, no spaces before/after commas) containing user names, passwords and domain. Dedicate a row to each user. Below is a sample CSV file:

rwilliams,password2012,mydomain

tjones,password2013,mydomain

asmith,password2014,mydomain

rclark,password2015,mydomain

CSV files can be created in Microsoft Excel - “Save as type” CSV (Comma Delimited) (*.csv) or with a word editor like Notepad – “Save as type” All Files (*.*) and add the .csv extension to file name.



Start rUsers

The next step in the process is to “Start rUsers”. This process launches the rUserManager on the Injector and initiates the rUser logins. (Note: Start rUsers only applies to AppLoader suite if it is installed onto a server.)

Click the “Start rUsers” button . The “Start rUsers” window pops up;



The “Start rUsers” window is a dialog box with a blue header and a close button. It contains three input fields: “Number of Users” (set to 10), “Start Index” (set to 1), and “Launch Delay” (set to 10). Below these fields is a text label: “Edit the Injector to change rUserManager parameters for the Remote Desktop sessions.” At the bottom are two buttons: “Get Start rUsers Link” and “Submit”.

of Users: Specify the number of users to start on the selected Injector.

Start Index: Specify the numerical index from where the users will be launched. For Injectors using CSV files, this is the line number in the CSV file.

Launch Delay: Specify a launch delay in seconds. The system waits this amount of time after starting each rUser. It is recommended to use a delay value to avoid overloading the system by logging in multiple user accounts all at the same time. For example, a Launch Delay of 5 results in a new rUser logging in every 5 seconds.

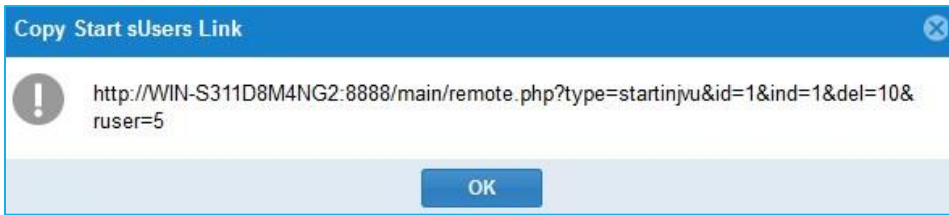
Click “Submit” to start rUsers.

Started rUsers can be viewed in the “Real Time” page of the Controller;

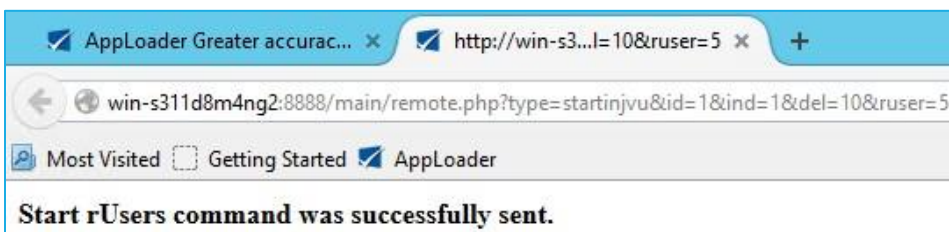
Injector	Connected	Disconnected	Playing	Waiting	Rendezvous	Completed	Completed with Errors	Total
AL-Injector01	0	2	56	1	0	0	0	59
AL-Injector02	1	0	56	1	0	0	0	58
AL-Injector03	5	0	60	1	0	0	0	66
AL-Injector04	1	0	60	1	0	0	0	62
AL-Injector05	1	0	60	1	0	0	0	62
AL-Injector06	1	0	56	1	0	0	0	58
AL-Injector07	1	0	56	1	0	0	0	58
AL-Injector08	1	0	56	1	0	0	0	58
AL-Injector09	1	0	56	1	0	0	0	58
AL-Injector10	6	22	56	1	0	0	0	85
AL-Injector11	0	1	56	1	0	0	0	58
AL-Injector12	0	0	56	1	0	0	0	57
AL-Injector13	1	1	56	1	0	0	0	59
AL-Injector14	2	0	56	1	0	0	0	59
AL-Injector15	1	1	56	1	0	0	0	59
AL-Injector16	1	0	56	1	0	0	0	58
AL-Injector17	0	2	56	1	0	0	0	59
(17 Injectors)	23	29	964	17	0	0	0	1033



Tip You can also start rUsers by clicking on the “Get Start rUsers Link” [Get Start rUsers Link](#). Copy the link and paste it on the Web Browser. You can change the number of ruser in the following link.



Once you open the link on your browser, you will receive the following message:



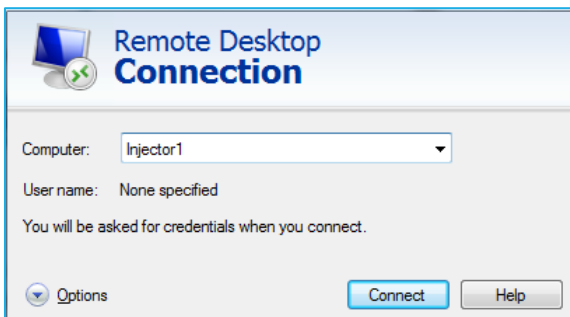
RUSER MANAGER

AppLoader uses an RDP Manager tool called rUserManager  to house all of the rUser sessions on an Injector in a single window. The rUserManager is part of the Injector component. It enables RDP connections to the rUsers.

The rUserManager launches on the Injector when the “Start rUsers” command is issued from the Controller. Within the manager, individual Windows sessions initiate and log in in accordance with the “Launch Delay” setting in the “Start rUsers” command (e.g. if the “Launch Delay” was set to 15, every 15 seconds an rUser session would begin).

The rUserManager can be viewed throughout the test process, from the starting of rUsers through the complete execution of the test. It can be minimized or maximized on the Injector as the test is in progress. However closing the rUserManager during the test would end Scenario playback and disrupt the test.

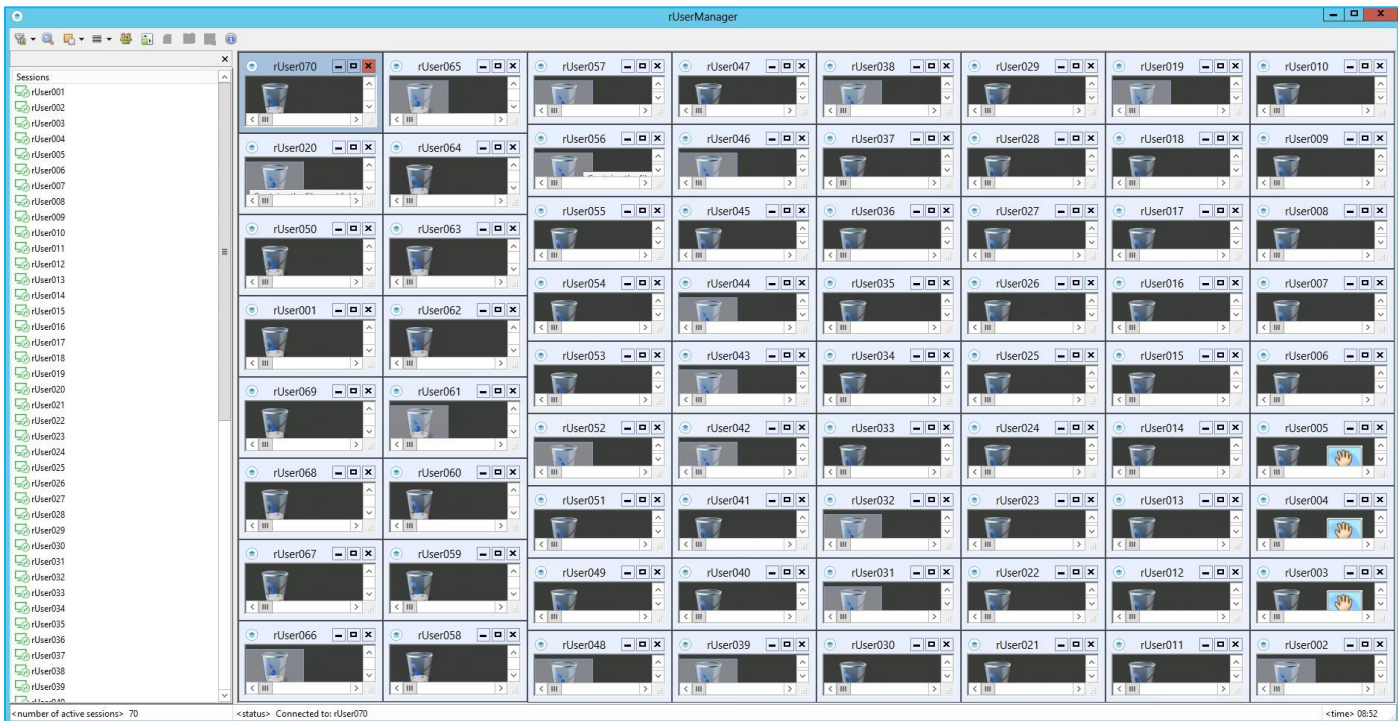
To view the rUserManager, establish an RDP connection to the Injector server;



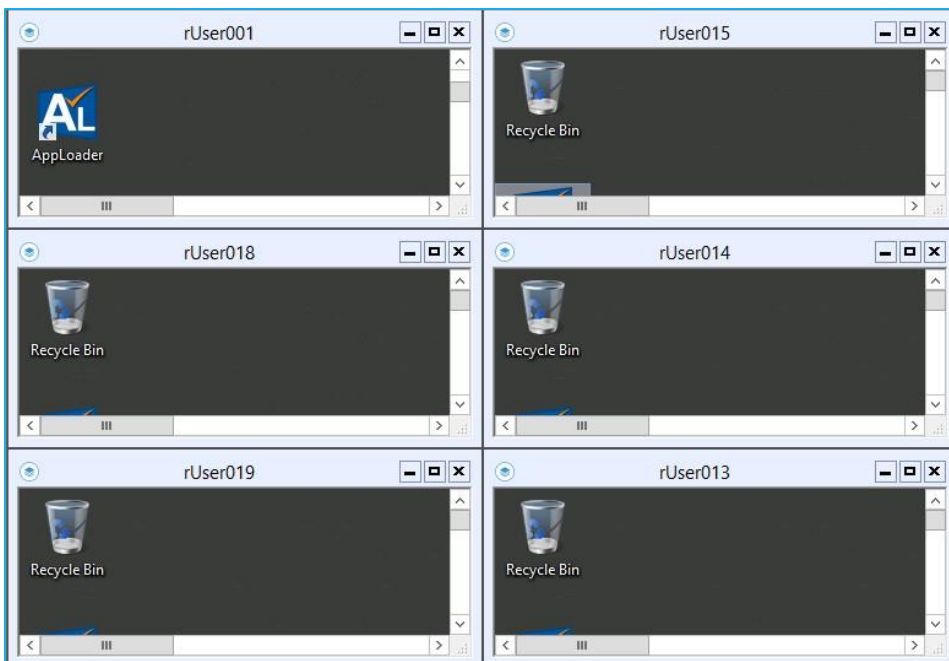
Once connected to the Injector, you will see the rUserManager with the started rUsers sessions;



User Guide: AppLoader



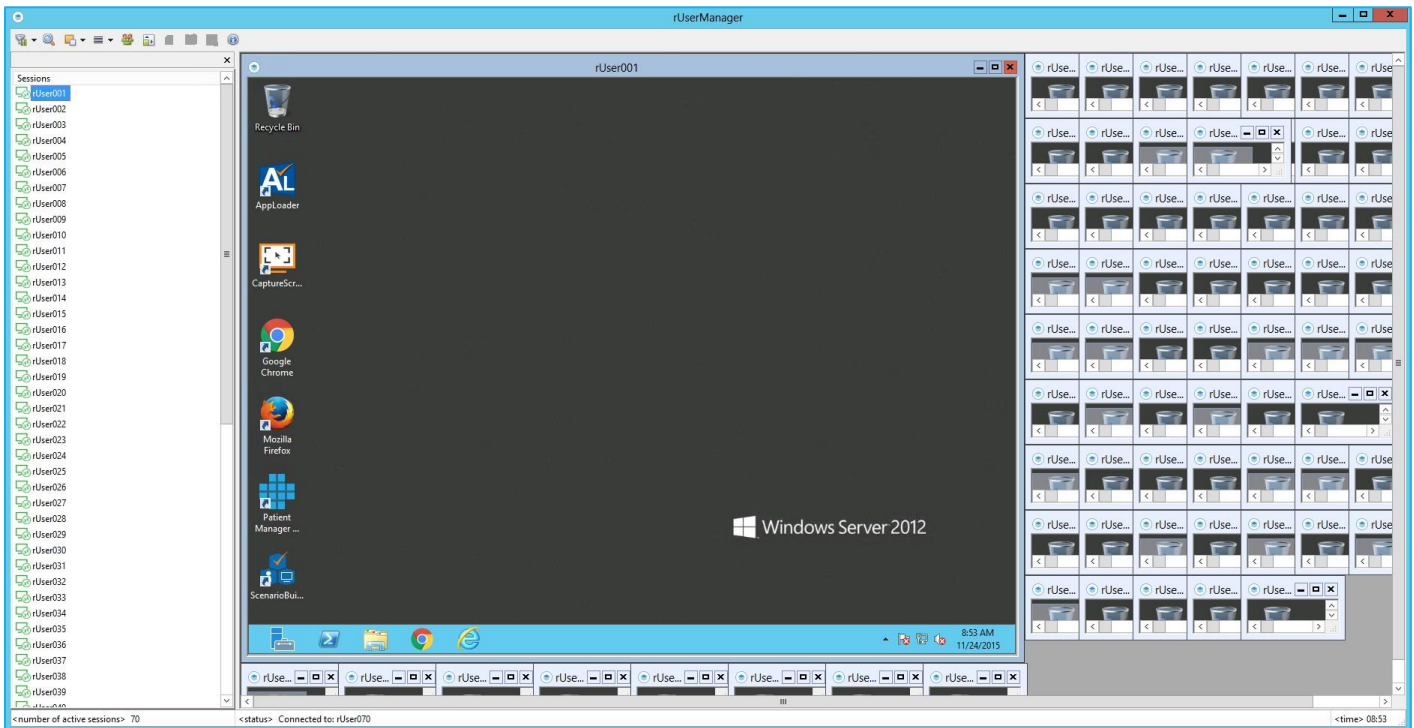
Click the “Maximize” icon in the upper right corner of any rUser session to maximize that session within the rUserManager;



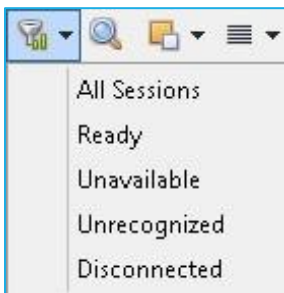
 Feel free to keep the RDP session active throughout the course of the test, as this will provide you with an actual view of rUsers performing iterations of the test Scenarios in real time.



User Guide: AppLoader



To view status of each user/session, Click “Filter sessions”



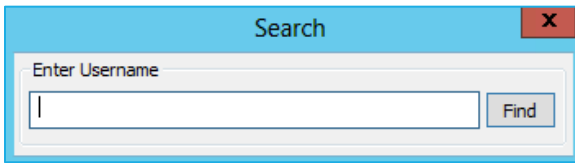
Ready	The RDP connection was established successfully and VStation is running.
Unavailable	The RDP connection was established successfully and VStation is not running.
Unrecognized	The RDP connection was established successfully; however, rUserManager could not recognize the status of VStation whether it is running or not.
Disconnected	The RDP connection was not established successfully.



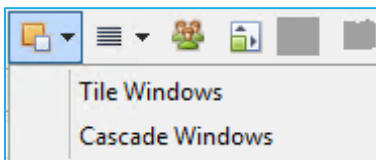
The VStation is what will perform the playback of the scenario during the load test, without it the rUser will not perform the Scenario playback. The VStation is programmed to start automatically once the rUser is logged in.



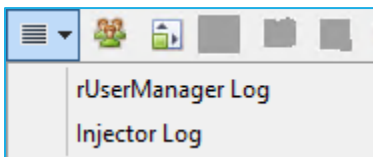
To search user/session, click “Search” 



Click “Tile Windows” in the “Rearrange windows”  menu to minimize the individual user/session and return to the default rUserManager view;



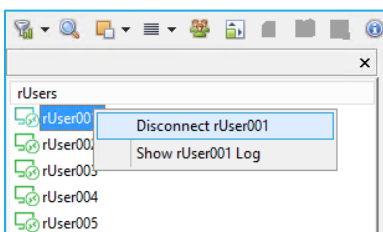
To view log files, click “Open log file” 



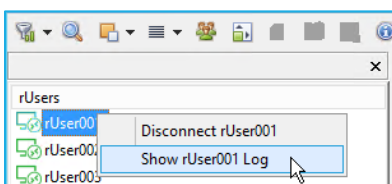
To view list of users/sessions, click “Show list” 

To view user/session in fullscreen mode, click “Fullscreen on/off” 

To disconnect user/session, right click on the user/session and click “Disconnect [user]”



To view log file for user/session, click “Show [user] log”

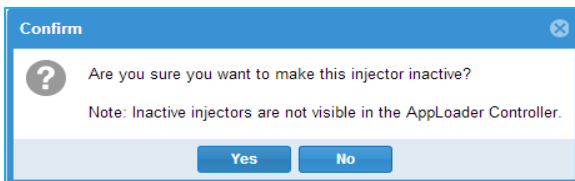


Injector actions

MAKE INJECTOR “ACTIVE” OR “INACTIVE”

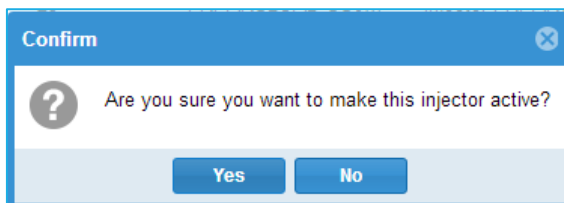
Inactive Injectors are not listed in the “rUser Status” pane of the “Real Time” page. So, if you’re running a test that requires the use of some, but not all of your Injectors, making the un-used Injectors “Inactive” will keep them from cluttering the “Real Time” page without having to delete them.

To make an Injector “Inactive”, from the *Actions* column, click the “Active/Inactive”  icon next to the desired Injector;



Click “Yes” to confirm.

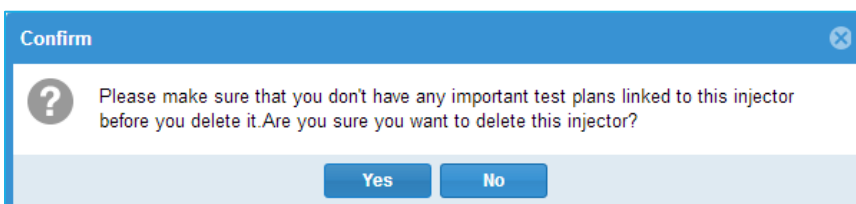
“Inactive” Injectors can easily be activated by simply clicking the same icon;



Click “Yes” to confirm.

DELETE INJECTOR

To delete an Injector, click the “Delete”  icon next to the desired Injector;

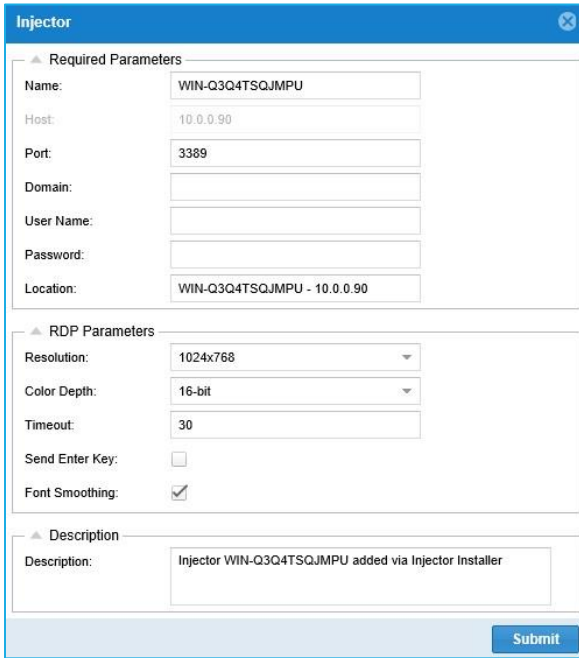


Click “Yes” to confirm the deletion of the selected Injector.



EDIT INJECTOR

To edit the properties of an Injector, click the “Edit”  icon next to the desired Injector. “Injector rUsers” form opens;



Name: A unique name identifying the Injector.

Host: The hostname *or* IP address of the computer hosting the Injector.

Port: The port number of RDP connection on the Server.

By default, Remote Desktop is using port 3389 TCP (and UDP to stream audio redirection) as the listening port for any incoming Remote Desktop connections.

Domain: The Domain of the injector.

Location: An optional descriptive field to further identify the Injector

Resolution: Sets the resolution for the individual rUser sessions inside the rUser Manager. This value should match the resolution of the machine on which the Scenarios were created. Recommended value is 1024x768. (Note: Lower resolutions require fewer resources and allow for more rUsers per Injector)

Color Depth: Sets the color depth for the individual rUser sessions inside the rUser Manager. This value should match the color depth of the machine on which the Scenarios were created. Recommended value is 16bit.



Timeout: RDP connection time out.

Send Enter Key: Check if you wish to send <Enter> key upon login. This can be used to dismiss a security message window that pops up after login.

Font Smoothing: When enabled, the rUserManager will activate Cleartype font smoothing for rUser sessions.

Description: An optional descriptive field to further identify this Injector.

Click “Submit” to save your editing changes and update the Injector.

MANAGE INJECTOR RUSERS

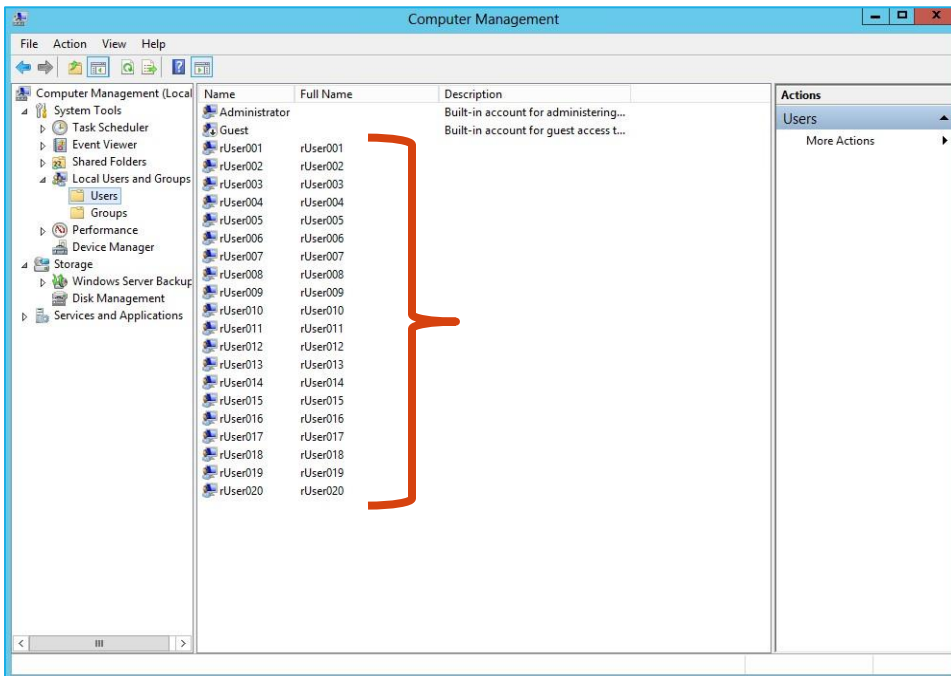
To view or delete rUsers that have been created on an Injector, click the “Manage Injector rUsers”  icon next to the desired Injector. “Defined rUsers Info” window opens, displaying the mode, password and rUsername used for rUsers in the ;

Defined rUser Info 	
Mode	Incremental
rUsername	rUser
Password	Password123

DELETING RUSERS

To delete rUsers from Windows server, open “Computer Management”





snap-in and right-click on the user accounts you wish to delete;



Stop rUsers

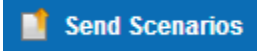
Click the “Stop rUsers”  button if you have a currently running test and you wish to stop Scenario playback for all rUsers on the selected Injector.

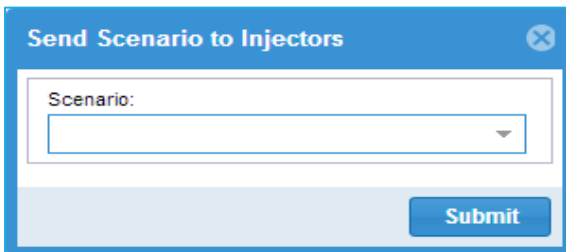
Add new injector

To add an Injector, run the installation program included in the *Injector setup* file.



Send scenarios

Scenarios that were sent from ScenarioBuilder to the Controller, prior to the addition of a new Injector, must be sent to the new Injector before they can be utilized by that Injector in a Test Plan. To send a Scenario, first select the Injector to which you are sending the Scenario by clicking the check box next to it. To select *all* Injectors, click the check box next to the **Actions** heading. Next, click the “Send Scenarios”  button in the Menu bar. The “Send Scenario to Injectors” form opens;

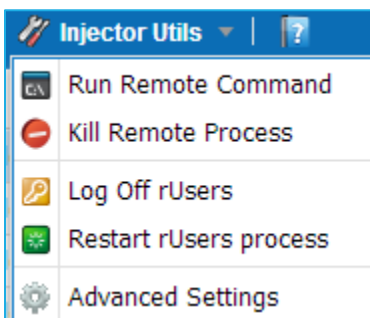


The dialog box titled "Send Scenario to Injectors" features a blue header bar with a close button. Below the header is a "Scenario:" label followed by a dropdown menu. At the bottom right of the dialog is a blue "Submit" button.

Select the Scenario to be sent from the “Scenario” drop down box and click “Submit”. Repeat this step for each Scenario you wish to send. If the Scenario you are seeking is not listed in the drop down box, it most likely has not yet been sent from ScenarioBuilder to AppLoader.

“Sent” Scenarios are added to the ScenarioStore folder on the Injector.

Injector utilities



The Injector Utils menu contains options to run remote command, kill process and log off all of your active rUser on the selected Injector, click on the Injector Utils dropdown to do any of the following:



RUN REMOTE COMMAND

Run any windows command on all launched rUser sessions on the selected Injectors (e.g. *notepad.exe*).

KILL REMOTE PROCESS

Kill a running process on all launched rUser sessions on the selected Injectors.

LOG OFF RUSERS

Log off all rUsers on the selected Injector(s).

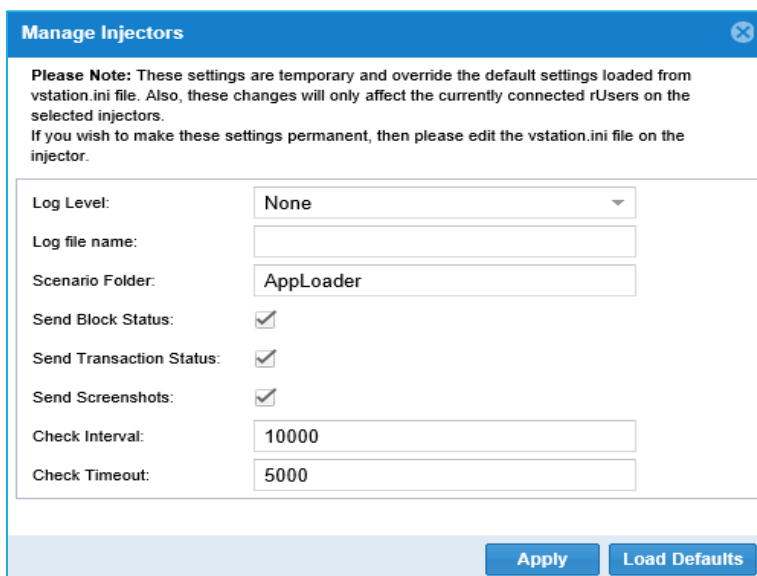
RESTART RUSERS PROCESS

Restart rUsers on the selected Injector(s).

ADVANCED SETTINGS

Temporarily override the default settings from the Injector.ini file.

Click on Advanced Settings in Injector Utils menu to temporarily override the default settings from the Injector.ini file:



The screenshot shows a window titled "Manage Injectors" with a close button in the top right corner. Inside the window, there is a "Please Note" section stating that settings are temporary and override the default settings from the vstation.ini file. Below this, there are several settings:

- Log Level: A dropdown menu set to "None".
- Log file name: An empty text input field.
- Scenario Folder: A text input field containing "AppLoader".
- Send Block Status: A checkbox that is checked.
- Send Transaction Status: A checkbox that is checked.
- Send Screenshots: A checkbox that is checked.
- Check Interval: A text input field containing "10000".
- Check Timeout: A text input field containing "5000".

At the bottom of the dialog, there are two buttons: "Apply" and "Load Defaults".



Log Level: Recommended to be set to None.

Log File Name: (Optional) Specify a name of log file if Log Level is activated

Scenario Folder: Specify the path to where the Scenarios are saved on the injector

Send Block Status: Will notify the Controller whenever a Component starts/ends during playback.

Send Transaction: Will notify the Controller whenever a Transaction starts/ends during playback.

Send Screenshots: Screenshots will be taken and transferred to the Controller when Scenario playback fails.

Check Interval: In milliseconds: This is the interval when checking for commands with Controller.

Check Timeout: In milliseconds: This is the max time wait for response of commands issued from Controller.



Backend monitors



Backend monitors allow you to track the performance of your application or Injector servers during the execution of your test. AppLoader provides standard performance metrics - CPU, memory, disk (Windows) or file system (Linux & Solaris), processes, services and network - which are pre-defined (not user-defined). Monitoring of these performance metrics produces data regarding usage of available capacity, which can be correlated with application response times to give you a complete perspective of your application's performance.



Monitoring backend systems is not necessary for all load tests (this step can be skipped if your load test does not require the monitoring of backend systems).

Add new system

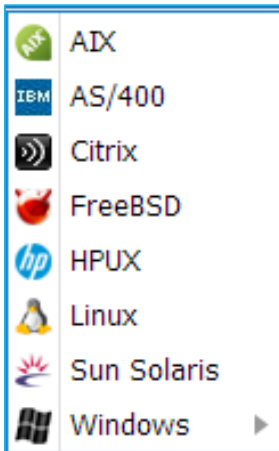
First, define the system you wish to monitor with AppLoader. Click the “Backend Monitors” button in the left pane;

Actions	Name	Host	Type	Connection Method	Frequency	Description
	CitrixVM	CitrixVM:9000	citrix_agt	System Agent	1 min	
	Citrix Agent AWS	172.31.11.173:9000	citrix_agt	System Agent	1 min	
	NRG_VM7	10.0.0.7:9000	winnt_agt	System Agent	1 min	
	NRG_Injector2	10.0.0.6:9000	winnt_agt	System Agent	1 min	
	Citrix Agent	10.0.0.5:9000	citrix_agt	System Agent	1 min	
	Localhost	127.0.0.1	Windows	WMI	1 min	

Click the “Add New System”  button in the menu bar.

Select the type of system from the drop down menu.





 When monitoring a Windows machine there are two options available **WMI** and **System Agent**. Selecting WMI will use Microsoft's built-in WMI to measure the metrics. To use the System Agent option, the Nrg Global System Agent must be installed in the system that is going to be monitored. To download the System Agent installer, click [here](#)

The "System" form will open;

System

System Parameters

Frequency: 1 Minute

Connection Timeout: 20

System Alias: Database

Host name / IP:

Login: Administrator

Password:

Metrics Click on Fetch Metrics then Drag Items Over the root in the Right Pane

Source

- Available Metrics
 - cpu
 - memory
 - disk
 - process
 - diskperf
 - service
 - network

Fetch Metrics

Destination

- Data Base
 - TotalCPU
 - pctusedphysical

Delete

Description / IP

Submit



Frequency: The check frequency for monitoring metrics for this System.

Connection Timeout: This is the amount of seconds AppLoader will keep trying to connect to the System before it “times out” and reports no connection.

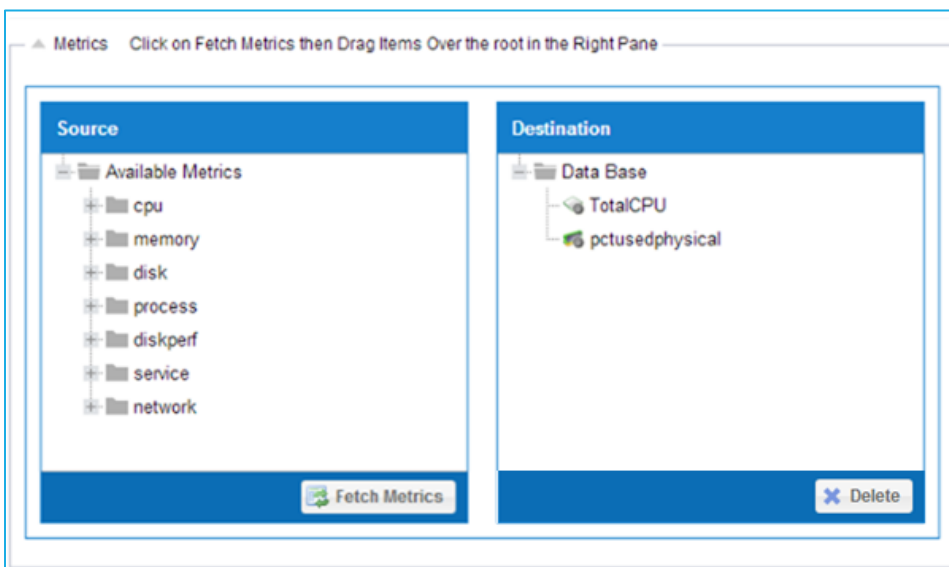
System Alias: Enter a meaningful name for the System in this field.

Host name / IP: Enter the Hostname or Static IP address of the System. If the local system is being monitored enter “localhost” or “127.0.0.1”. If the “Connection Method” is “Agent” and you are using non-default port, then enter the system address as *<hostname or ip address>:<port>* (without the brackets). If you did not change the default listening port (port: 9000) for the agent, you may enter just the server name or IP.

Login: Enter the login name. For Windows systems joined to domain, use: *domain_name\username* or *username@domain.com* (i.e. MYDOMAIN\john or john@example.com). For Windows systems not joined to domain, use: *hostname\username* or *username* (i.e. 192.168.10.100\administrator or administrator). No Login name is required for Windows if the host is “localhost” or “127.0.0.1”. For *nix systems the domain name is not required.

Password: Enter the password for the username provided.

Metrics: Click the “Fetch Metrics”  **Fetch Metrics** button in the left pane of the Metrics section;



If login credentials have been configured properly, available Metrics will populate the left pane. Following is a list of available Metrics:



CPU Metrics: CPU usage of the System is monitored. Usage of each CPU is listed separately, as well as total CPU usage. In the case of a single CPU system, CPU0 and Total CPU are equivalent.

Memory Metrics: The physical memory of the System is monitored.

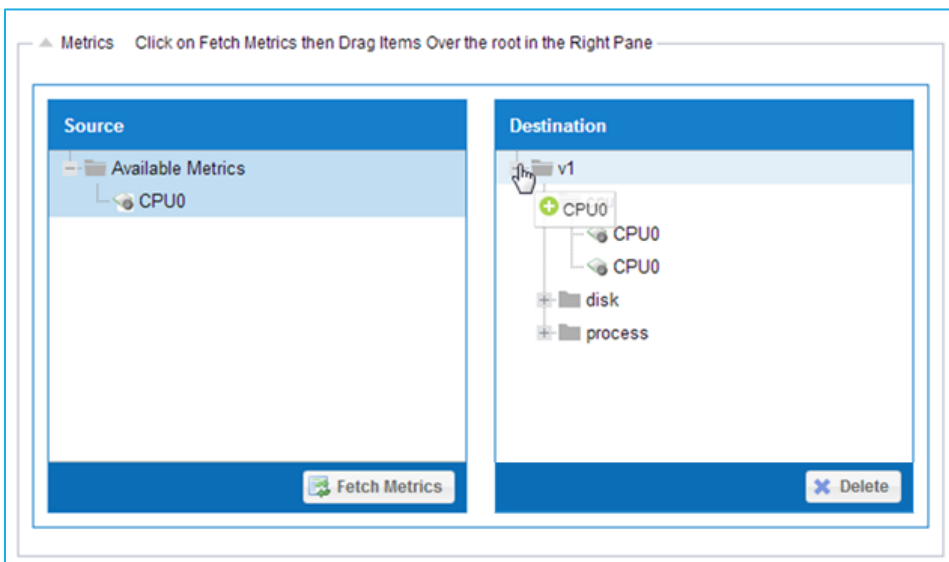
Process Metrics: Any running process on the System is monitored.

Disk and File System Metrics: Disk and File System Metrics are conceptually the same test. Disk is for Windows and checks for available disk space usage on logical drives. File System is for Linux and Solaris.

Network Metrics: Packets sent and received across the network are monitored.

Service Metrics: Any running Service on the System is monitored.

Expand folders to reveal individual metrics. Drag and drop the metrics you wish to monitor from the “Source” section on the left pane onto a folder on the right “Destination” pane



Description: Optional description field to further identify this System.

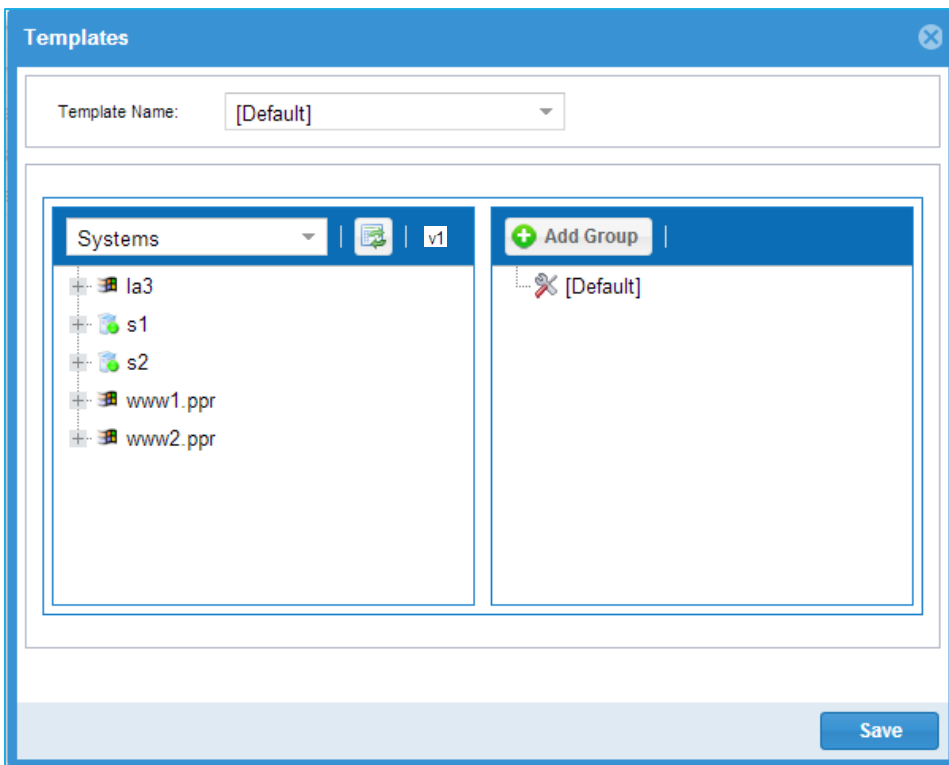
When finished, click “Submit”.



Templates

Select from the Systems that you have set up, to create a custom Template that includes any or all of the available metrics. A Template can then be attached to a Test Plan allowing for the correlation of backend metrics with application response times via graphs and reports.

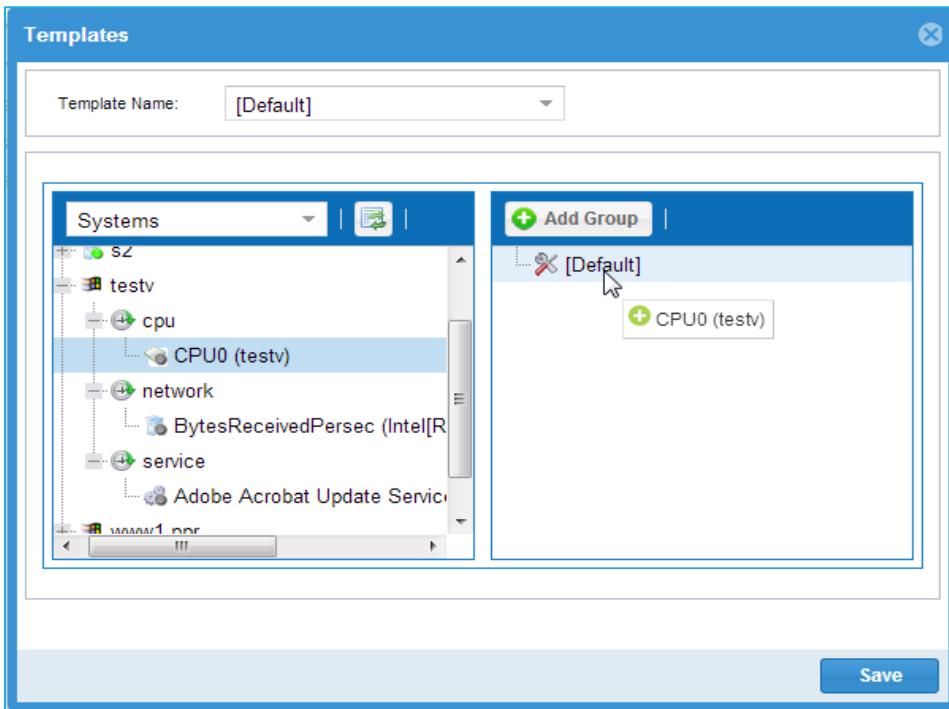
Click the “Templates”  button in the menu bar. The “Templates” form opens;



Template Name: Specify a meaningful name for a new Template or select an existing Template to modify from the dropdown box.

With “Systems” displayed in the selection box, expand the defined Systems to reveal available metrics. Drag and drop the desired metrics onto the Template icon (right pane) to add selected metrics to your Template.





Use ctrl+left click to select multiple metrics to drag and drop from the left pane into the right pane all at once.

Click “Save” to save the Template and make it available to be attached to a Test Plan.



Backend monitors actions

Add New System Templates Filter by name						
Actions	Name	Host	Type	Connection Method	Frequency	Description
 	NRG_VM7	10.0.0.7:9000	winnt_agt	System Agent	1 min	
 	NRG_Injector2	10.0.0.6:9000	winnt_agt	System Agent	1 min	
 	Citrix Agent	10.0.0.5:9000	citrix_agt	System Agent	1 min	
 	Localhost	127.0.0.1	Windows	WMI	1 min	

Click the “Delete”  icon next to a System to delete that System.

Click the “Edit”  icon next to a System to edit the properties of that System.

System

System Parameters

Frequency:

5 Minutes

Connection Timeout:

20

System Alias:

Localhost

Host name / IP:

Login:

Password:

Metrics

Click on Fetch Metrics then Drag Items Over the root in the Right Pane

Source

Available Metrics

Fetch Metrics

Destination

Localhost

cpu

disk

diskperf

memory

service

Delete

Description / IP

Submit



Manage tests



Click the “Manage Tests” button to design a Test Plan. Test Plans determine how many rUsers are involved in the test, the pace at which rUsers are introduced into the test, the number of iterations each rUser will perform, and the amount of time that all rUsers will be concurrently active in the test. Most importantly, Test Plans determine which Scenarios are performed and by which rUsers.

Once a Test Plan is created it can be run immediately or you can schedule the test for execution at a future time.



Be sure that rUsers have been started (showing in “Connected” column of “Real Time” page on the Controller, and sessions are visible in rUserManager on the Injector) prior to running Test Plan.

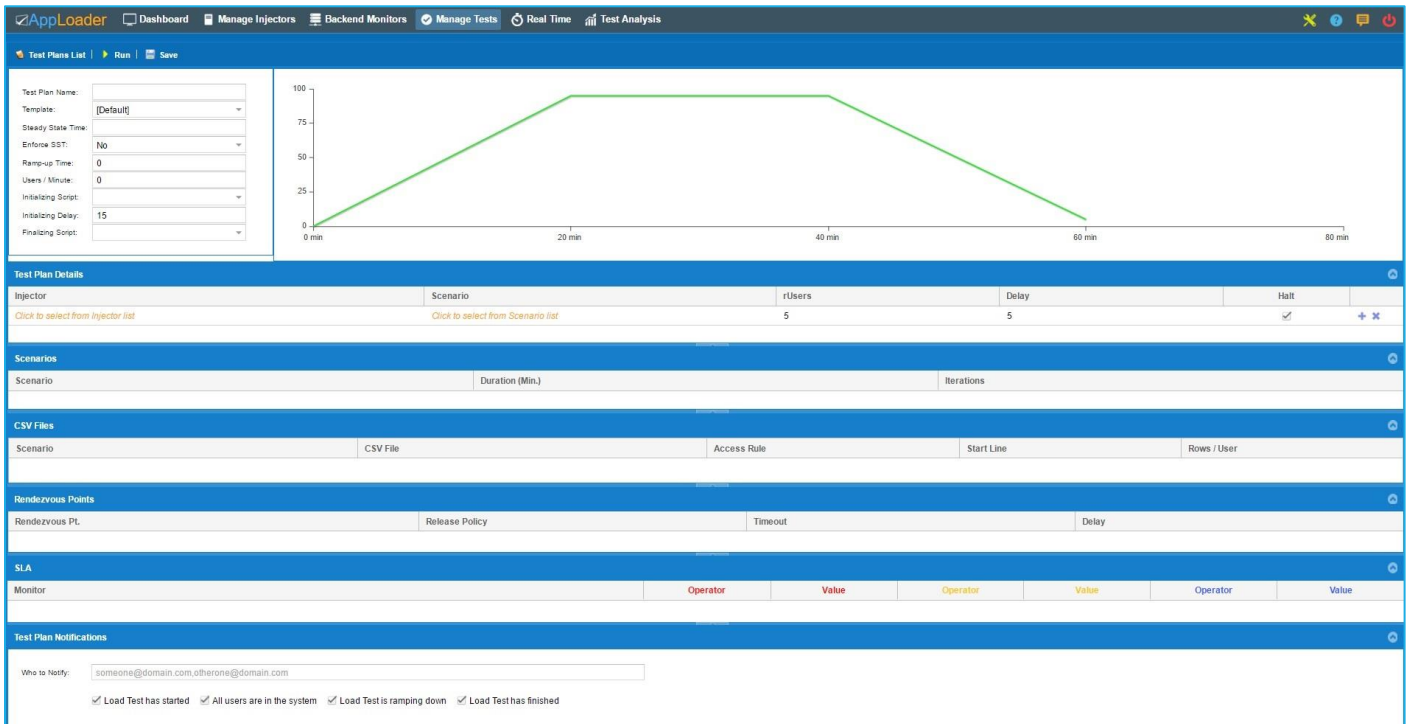
The “Manage Tests” page defaults to the “Test Plans List” view;

AppLoader						
Dashboard Manage Injectors Backend Monitors Manage Tests Real Time Test Analysis						
Create New Test Plan Test Plans List Create New Execution Flow Exec Flows List Scheduled Tests List Run Help						
Filter by Test Plan						
	Actions	Test Plan Name	Template	Created By	Creation Date	Description
		Citrix XenApp 7_7 Test Plan_...	CitrixVM_Template	Administrator	Tue, Feb 02 2016, 12:24:19	
		Citrix XenApp 7_7 Test Plan	CitrixVM_Template	Administrator	Tue, Feb 02 2016, 12:24:19	
		AppLoader Webinar 2015	Citrix_Template	Administrator	Tue, Aug 25 2015, 10:20:37	
		XenApp 7_6 Test Plan	Local_Template	Administrator	Fri, May 01 2015, 11:59:21	
		Citrix XenApp 7_7	CitrixVM_Template	Administrator	Tue, Feb 02 2016, 12:24:19	
		AppLoader RDP Test Plan	Local_Template	Administrator	Thu, Oct 08 2015, 16:12:20	
		AppLoaderDemo Test Plan	Citrix_Template	Administrator	Tue, Aug 25 2015, 10:20:37	
		AL Demo Test Plan _EXC	Citrix_Template	Administrator	Wed, Apr 29 2015, 09:06:46	
		BUSAD Test Plan	VM7_Template	Administrator	Fri, May 01 2015, 12:03:08	
		XenDesktop Test Plan	Local_Template	Administrator	Fri, May 01 2015, 11:59:21	
		MTA Test Plan	VM7_Template	Administrator	Fri, May 01 2015, 11:56:28	
		Healthcare Test Plan		Administrator	Fri, May 01 2015, 11:53:56	
		Airlines Test Plan	Local_Template	Administrator	Thu, Apr 30 2015, 16:00:47	
		CTX76 AL Demo Test Plan _...	Citrix_Template	Administrator	Wed, Apr 29 2015, 09:06:46	
		Citrix app Test Plan		Administrator	Wed, Apr 29 2015, 10:37:20	
		AL Demo Test Plan _RPT	Citrix_Template	Administrator	Wed, Apr 29 2015, 09:06:46	
		AppLoader Demo Test Plan	Citrix_Template	Administrator	Tue, Apr 28 2015, 16:08:08	
		Web app Test Plan		Administrator	Tue, Apr 28 2015, 15:03:47	
		XenApp Test Plan 20	Local_Template	Administrator	Tue, Apr 28 2015, 09:13:07	
		Test Plan C1	Template 1	Administrator	Mon, Apr 27 2015, 16:38:34	
		3 scripts Citrix Test Plan	Template 1	Administrator	Mon, Apr 27 2015, 15:50:07	
		Citrix Test Plan	Local_Template	Administrator	Mon, Apr 27 2015, 14:40:02	



Create new test plan

Click the “Create New Test Plan”  button in the menu bar. The “Test Plan” form opens;



The screenshot shows the AppLoader Test Plan form. The sidebar on the left contains the following configuration options:

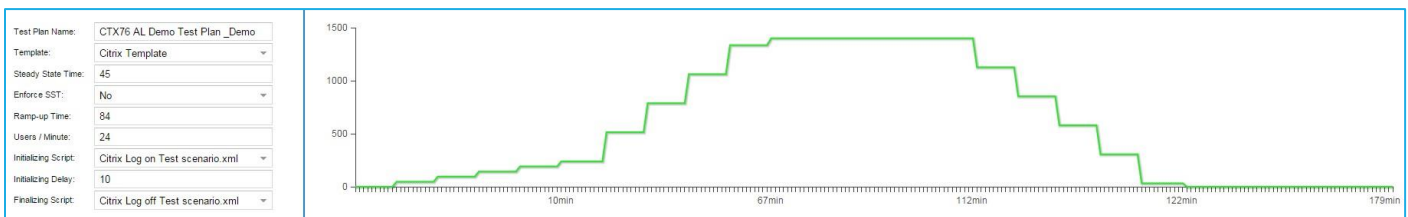
- Test Plan Name: [Text input]
- Template: [Default] (dropdown)
- Steady State Time: [Text input]
- Enforce SST: [No] (dropdown)
- Ramp-up Time: [0] (text input)
- Users / Minute: [0] (text input)
- Initializing Script: [Text input]
- Initializing Delay: [15] (text input)
- Finalizing Script: [Text input]

The main area displays a graph of the test plan profile over 80 minutes. The profile starts at 0, ramps up to 100 users at 20 minutes, remains constant until 40 minutes, and then ramps down to 0 at 60 minutes. Below the graph, the form is divided into several sections:

- Test Plan Details:** Includes fields for Injector, Scenario, rUsers (5), Delay (5), and a Halt checkbox.
- Scenarios:** A table with columns for Scenario, Duration (Min.), and Iterations.
- CSV Files:** A table with columns for Scenario, CSV File, Access Rule, Start Line, and Rows / User.
- Rendezvous Points:** A table with columns for Rendezvous Pt., Release Policy, Timeout, and Delay.
- SLA:** A table with columns for Monitor, Operator, Value, and other metrics.
- Test Plan Notifications:** Includes a field for Who to Notify and checkboxes for Load Test has started, All users are in the system, Load Test is ramping down, and Load Test has finished.

The above image shows how the Test Plan form looks upon opening. Next, we’ll break down each section of the form and provide an image with typical sample data entered, per section:

TEST PLAN



The screenshot shows the AppLoader Test Plan form with sample data. The Test Plan Name is "CTX76 AL Demo Test Plan _Demo". The Template is "Citrix Template". The Steady State Time is 45. The Enforce SST is "No". The Ramp-up Time is 84. The Users / Minute is 24. The Initializing Script is "Citrix Log on Test scenario.xml". The Initializing Delay is 10. The Finalizing Script is "Citrix Log off Test scenario.xml". The graph shows a complex load profile with multiple steps, peaking at 1500 users around 67 minutes.

Test Plan Name: Enter a name for the new Test Plan. Use standard alpha/numeric characters only.

Template: Attach a Template for backend monitoring (optional). Templates contain a set of system metrics configured in “Backend Monitors”.



Steady State Time: The amount of time, in minutes, that *all* rUsers are actively playing Scenarios. Steady State Time uses Scenario Reference Time to calculate the number of iterations per rUser. Test duration is ruled by Iterations, not Steady State Time.

Enforce SST: Select “Yes” to enforce “Steady State Time” to the Load Test. This way the load test will run for all users for a specified period.

Select “No” if you need to run the load test based on the number of iterations.

Ramp-up Time: The amount of time elapsed before all rUsers are actively playing Scenarios (rounded to the nearest minute). This field is automatically calculated based on the Test Plan details provided (field cannot be edited manually). Ramp-up time is the total time elapsed from when the first rUser starts playing a Scenario until the last rUser starts playing. In other words it is the time from the initiation of the test to the point at which the Steady State time begins.

Users / Min: The number of rUsers that begin playing Scenarios per minute. This field is automatically calculated based on the Test Plan details provided (field cannot be edited manually). This is the maximum number of rUsers injected, per minute during the Ramp-up time.

Initializing Script (Optional): Select a script that will run before any scripts in the Load Test Run.

Initializing Delay (Optional): The time, in seconds, that each rTester waits before playing the Initializing Script. A Delay value of "0" results in all rTesters begin playing the Initializing Script simultaneously. A Delay value of "5" results in each rTester begin playing the Initializing Script 5 seconds after the previous. The default value is 15 seconds.

Finalizing Script (Optional): Select a script that will run after the Injector finishes executing the script(s) in the Load Test Run.



Initialization and finalization scripts are similar to other scripts. The purpose of these scripts is to perform one-time initialization routines upon Test Plan Run starts (such as launching Web Browser, loading website, login to application, etc.) and finalization routines (properly close application, cleanup and release memory or other resources) upon Test Plan Run finishes.



The Graph shown in this pane provides a visual representation of the Test Plan, including ramp-up time, ramp-down time and total test run. This graphical view can also give you an idea of how many users are in the system and testing at any given time during the test.



TEST PLAN DETAILS

TestPlan Details					
Injector	Scenario	rUsers ↑	Delay	Halt	
AL-Injector02	CTX22.xml	5	3	☒	+ ×
AL-Injector12	CTX22.xml	50	2	☒	+ ×
AL-Injector13	CTX22.xml	50	5	☒	+ ×
AL-Injector06	CTX22.xml	50	5	☒	+ ×
AL-Injector07	CTX22.xml	50	5	☒	+ ×
AL-Injector06	CTX22.xml	50	5	☒	+ ×

Injector: Select the Injector on which the Scenario will play. After an Injector is selected, a new row appears below it (add as many Injectors as necessary to complete your Test Plan). Select the same Injector multiple times to play different Scenarios on the same Injector.

Scenario: Choose the Scenario to play on the selected Injector. If Scenario does not appear be sure that it has been sent from ScenarioBuilder.

rUsers: Enter the number of rUsers to play the selected Scenario on the selected Injector.

Delay: The time, in seconds, that each rUser waits before playing the Scenario. A Delay value of "0" results in all rUsers beginning simultaneously. A Delay value of "5" results in each rUser beginning 5 second after the previous. A Delay value of "5+" results in the first rUser beginning 5 second after the test begins, and each subsequent rUser 5 second after the previous. A Delay value of "1-5" results in each rUser beginning anytime from 1 to 5 seconds after the previous (value chosen randomly by AppLoader).

Halt: Enable if you want rUsers to stop upon failure. Halted rUsers report a failure and exit the test. If disabled (unchecked), rUsers will report a failure, but will advance to their next iteration after a failed iteration – assuming the Scenario has an “On Failure” section which addresses the failure. For more about “On Failure”, see the [ScenarioBuilder User Guide](#).

+ / x: Click on the  icon to add another line to the TestPlan Details section.

TestPlan Details					
Injector	Scenario	rUsers ↑	Delay	Halt	
AL-Injector02	CTX22.xml	5	3	☒	+ ×
Click to select from Injector list	Click to select from Scenario list	5	5	☒	+ ×

Click on the  icon to delete that line from the TestPlan Details section.



SCENARIOS

Scenarios		
Scenario	Duration (Min.)	Iterations
CTX22.xml	13	4

Scenario: Automatically populated (autofilled) from the “Scenario” field in the Test Plan “Details” section.

Duration (Min.): The length of time for a Scenario to complete an iteration. This value is automatically derived from the Scenario’s “Reference Time” (established in ScenarioBuilder). This field cannot be edited.

Iterations: Value calculated from the “Steady State Time”, “Ramp-up Time”, “Users / Min”, and “Reference Time”. Iteration value may be edited (double-click and enter new value), however, note that “Steady State Time” does not adjust to reflect an override to this value.

CSV FILES

CSV Files				
Scenario	CSV File	Access Rule	Start Line	Rows / User
CTX22.xml	AppUsers.csv	Sequential	1	1

Scenario: Automatically populated (autofilled) from the “Scenario” field in the Test Plan “Details” section.

CSV File: Automatically populated field, shows the CSV (variables) file(s) attached to each Scenario.

Access Rule: Method by which values are retrieved from the CSV file:

Fixed Row Per rUser: One row per user for all iterations. Values are retrieved in row-order.

Sequential: Values are retrieved in row-order and used repeatedly as required to complete the total number of iterations.

Random: Values are retrieved and used repeatedly, without regard for order.

Unique: Values are retrieved in row-order and used one time only.



Start Line: The row in the CSV file from which the first value is retrieved. This setting is ignored when the Random "Access Rule" is used.

Rows / User: The number of rows from the CSV file assigned to each rUser per iteration. When a Loop Action is used to call a variable multiple times per iteration, this value must be the same as the number of times through the loop to achieve the desired result.

RENDEZVOUS POINTS

Rendezvous Points			
Rendezvous Pt.	Release Policy	Timeout	Delay
Login	15	0	10

Scenario: Automatically populated (autofilled) from the "Scenario" field in the Test Plan "Details" section.

Rendezvous Pt.: A Rendezvous Point is a step in the Scenario where rUsers hold until a defined number of rUsers have arrived. This field is automatically populated based on Rendezvous Points defined in a Scenario. To add Rendezvous Points, edit Scenarios in ScenarioBuilder and re-send to AppLoader.

Release Policy: The number of rUsers to be released, in unison, from the Rendezvous Point. Double-click this value to edit.

Timeout: The length of time (in seconds) that each rUser will wait for the Release Policy to be met. rUsers will release *either* in accordance with the Release Policy *or* after the Timeout period elapses, whichever comes first.

Delay: The length of time each rUser waits (after the previous rUser) before continuing from the Rendezvous Point. Use to stagger the release of rUsers.

SLA

SLA						
Monitor	Operator	Value	Operator	Value	Operator	Value
TotalCPU (Localhost)	>	85	>	70	>	50
pctusedphysical (Localhost)			>=	90		



This section allows you to set up Alerts for your backend servers' behavior. The metrics in the Template attached to the Test Plan appear in the SLA section. Here, you can assign Alerts of varying degrees of severity tied to backend metrics performance.

Double-click on the "Operator" field to reveal the list of available Operators, then double-click on the "Value" field to enter a threshold value.

Monitor: The individual backend metrics associated with the Template attached to this Test Plan.

Operator: The method by which the backend metric is compared to the threshold established on the Value" field.

Value: The threshold at which an Alert is triggered.

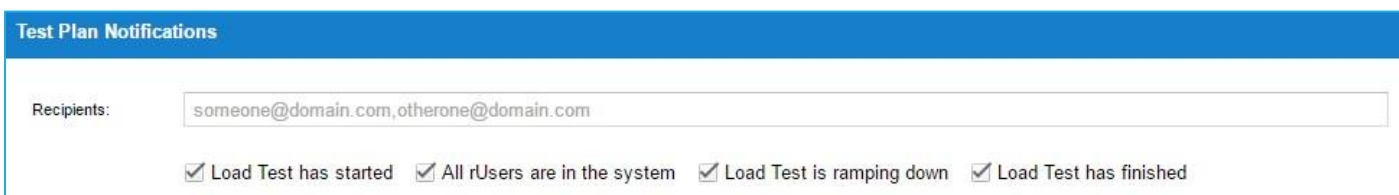
Alert Severity:

Red: **Error** Yellow: **Warning** Blue: **Information**

TEST PLAN NOTIFICATIONS

This section allows you to set up email notification for your load test(s) status. Here, you can notify any user by email.

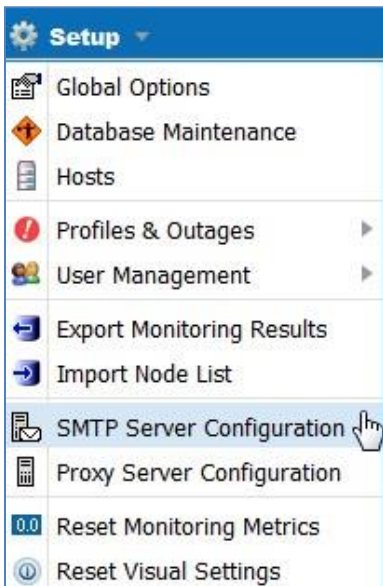
Put email addresses of the recipients and select/deselect the status check that you want to be notified about.



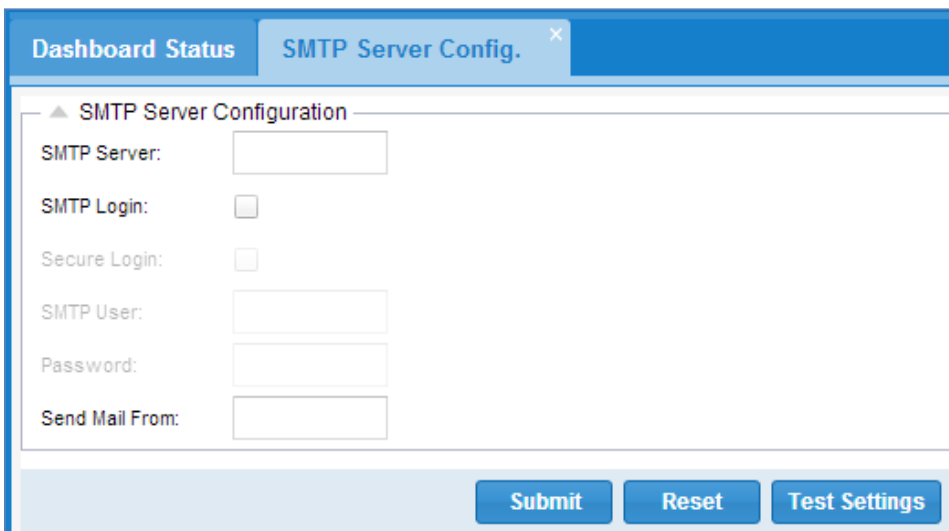
 Note you need to configure SMTP email server capability before AppLoader can send notifications. If you have not configured it, this section will not be displayed in the Test Plan form.

 To set SMTP Server Configuration, go to "Settings\Advanced Configuration\Configurations"; from the "Setup" menu, select "SMTP Server Configuration";





The “SMTP Server Config.” page opens in a new tab.



SMTP Server: Enter the SMTP server address.

SMTP Login: Check this box if your SMTP server requires you to login.

Secure Login: Check this box if your SMTP server requires secure login.

SMTP User: Enter the SMTP server user name.

Password: Enter the applicable password for the SMTP user.

Send Mail From: Enter the email address from which mail will be sent.



Click “Submit” to save any changes to the SMTP Server Configuration.

Click “Test Settings” button to test your configuration. “Test SMTP Settings” form pops up;

Test SMTP Settings

▲ Test Parameters

* SMTP Server:

SMTP Login:

Password:

* To Email:

* From Email:

* Subject:

* Message:

▼ Debug Output

Test Close

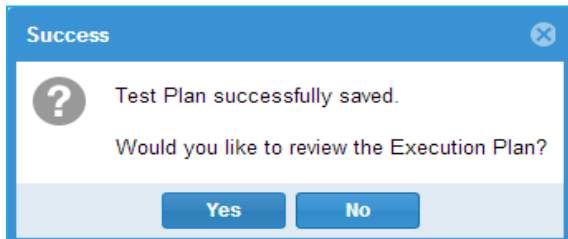
Expand the “Debug Output” section to view SMTP log messages.

Click “Test” to send a test email. If received at the “To” address, your SMTP Server Configuration is correct.



SAVE / REVIEW / RUN TEST PLAN

After completing all of the applicable sections of the Test Plan, click the “Save”  button above the “Details” window to save your Test Plan. The following message will appear:



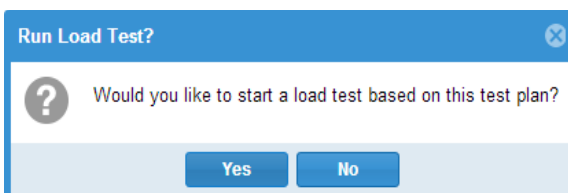
Click “Yes” to open the “Execution Plan” form for viewing and editing:

#	FirstName	LastName	Age
1	Joe	Patient	20
2	Alice	Smith	56
3	Fred	Jones	43
4	Olivia	Adams	28
5	Gabriella	Forester	51
6	Christian	Hernandez	26
7	Mark	Grand	18
8	Adam	Pine	22

The Execution Plan will show you each rUser name, Host, assigned Scenario, assigned number of Iterations, Start Delay, CSV file, and Assigned CSV Rows.

Click on  icon next to each rUser to view the actual value which will be pulled from the CSV file for that rUser..

Close the Execution Plan window to continue. The following message will appear:



Click “Yes” to Run your test or click “No” to exit without running. If you clicked “Yes” the following window opens. Specify a name and description for your load test and click “Submit.”



Specify Load Test Name

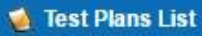
Load Test Name: Hospital_Admission (19 Jun 2015 11:12 AM)

Load Test Note: Hospital_Admission Load Test

Submit

AppLoader shifts to the “Real Time” page automatically after submitting the test.

TEST PLANS LIST

Click the “Test Plans List”  button to toggle from the Test Plan details page back to the Test Plans List page.

Click the check box next to a Test Plan to select it, then click the “Run”  button to execute it;

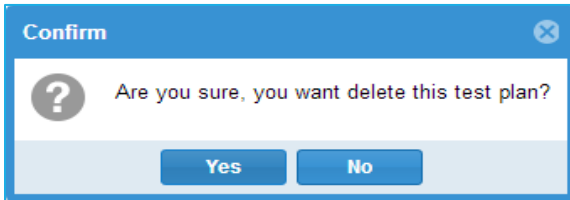
Create New Test Plan Test Plans List Create New Execution Flow Exec Flows List Scheduled Tests List Run Help Filter by Test Plan						
	Actions	Test Plan Name	Template	Created By	Creation Date	Description
☐		Citrix XenApp 7_7 Test Plan...	CitrixVM Template	Administrator	Tue, Feb 02 2016, 12:24:19	
☐		Citrix XenApp 7_7 Test Plan	CitrixVM Template	Administrator	Tue, Feb 02 2016, 12:24:19	
☐		AppLoader Webinar 2015	Citrix Template	Administrator	Tue, Aug 25 2015, 10:20:37	
☐		XenApp 7_6 Test Plan	Local_Template	Administrator	Fri, May 01 2015, 11:59:21	
☐		Citrix XenApp 7_7	CitrixVM Template	Administrator	Tue, Feb 02 2016, 12:24:19	
☐		AppLoader RDP Test Plan	Local_Template	Administrator	Thu, Oct 08 2015, 16:12:20	
☐		AppLoaderDemo Test Plan	Citrix Template	Administrator	Tue, Aug 25 2015, 10:20:37	
☐		AL Demo Test Plan _ EXC	Citrix Template	Administrator	Wed, Apr 29 2015, 09:06:46	
☐		BUSAD Test Plan	VM7_Template	Administrator	Fri, May 01 2015, 12:03:08	
☐		XenDesktop Test Plan	Local_Template	Administrator	Fri, May 01 2015, 11:59:21	
☐		MTA Test Plan	VM7_Template	Administrator	Fri, May 01 2015, 11:56:28	
☐		Healthcare Test Plan		Administrator	Fri, May 01 2015, 11:53:56	
☐		Airlines Test Plan	Local_Template	Administrator	Thu, Apr 30 2015, 16:00:47	
☐		CTX76 AL Demo Test Plan _...	Citrix Template	Administrator	Wed, Apr 29 2015, 09:06:46	
☐		Citrix app Test Plan		Administrator	Wed, Apr 29 2015, 10:37:20	
☐		AL Demo Test Plan _ RPT	Citrix Template	Administrator	Wed, Apr 29 2015, 09:06:46	
☐		AppLoader Demo Test Plan	Citrix Template	Administrator	Tue, Apr 28 2015, 16:08:08	
☐		Web app Test Plan		Administrator	Tue, Apr 28 2015, 15:03:47	
☐		XenApp Test Plan 20	Local_Template	Administrator	Tue, Apr 28 2015, 09:13:07	
☐		Test Plan C1	Template 1	Administrator	Mon, Apr 27 2015, 16:38:34	
☐		3 scripts Citrix Test Plan	Template 1	Administrator	Mon, Apr 27 2015, 15:50:07	
☐		Citrix Test Plan	Local_Template	Administrator	Mon, Apr 27 2015, 14:40:02	

 You can also start the Load Testing by clicking on the “Run Link”  [Test Link](#) . Copy the link and paste it on the Web Browser. You can rename the testname in the following link.



DELETE TEST PLAN

To delete a Test Plan, click the “Delete”  icon next to the desired Test Plan;



Click “Yes” to confirm the deletion of the selected Test Plan.

EDIT TEST PLAN

To edit the properties of an existing Test Plan, click the “Edit”  icon next to the desired Test Plan. The “Test Plan” form opens. Make editing changes and “Save” Test Plan.

CLONE TEST PLAN

To clone a Test Plan, click the “Clone”  icon next to the desired Test Plan. A duplicate of the Test Plan will be added to the “Test Plan List” page.

☐						MTA Test Plan	VM7_Template	Administrator	Fri, May 01 2015, 11:56:28
☐						Healthcare Test Plan	Local_Template	Administrator	Fri, May 01 2015, 11:53:56
☐						Citrix app Test Plan		Administrator	Wed, Apr 29 2015, 10:37:20

VIEW EXECUTION PLAN FORM

To view the Execution Plan form, click the  icon next to the desired Test Plan. The Execution Plan form will be displayed. It will show you each rUser name, Host, assigned Scenario, assigned number of Iterations, Start Delay, CSV file, and Assigned CSV Rows.

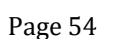


To view Test Plan execution details, click the icon next to the desired Test Plan to view the list of Test Runs of that Test Plan.

AL Demo Test Plan _ RPT		Citrix Template	Administrator	Wed Apr 29 2015, 9:06:46 AM			
Actions	Test Run		Test Date	Status	Description		
	AL Demo Test Plan (29 Apr 2015 04:07 PM)		Apr 29, 2015, 9:07:45 am	1	AL Demo Load Test 1		
Scenarios		Max Users	Iterations	# Success	# Failures	Start Date	End Date
Web app Test scenario.xml, Citrix XenApp Test scenario.xml, Desktop app Test scenario.xml		35	30	778	72	Apr 29, 2015, 9:07:46 am	Apr 29, 2015, 9:31:27 am
Actions	Test Run		Test Date	Status	Description		
	AL Demo Test Plan (29 Apr 2015 12:10 PM)		Apr 29, 2015, 12:10:41 pm	1	AL Demo Load Test 2		
Scenarios		Max Users	Iterations	# Success	# Failures	Start Date	End Date
Web app Test scenario.xml, Desktop app Test scenario.xml, Citrix XenApp Test scenario.xml		50	150	5293	107	Apr 29, 2015, 12:10:41 pm	Apr 29, 2015, 2:16:17 pm
Actions	Test Run		Test Date	Status	Description		
	AL Demo Test Plan _ RPT (30 Apr 2015 03:02 PM)		Apr 30, 2015, 3:03:34 pm	1	AL Demo Load Test 3		
Scenarios		Max Users	Iterations	# Success	# Failures	Start Date	End Date
Citrix XenApp Test scenario.xml, Desktop app Test scenario.xml, Airline website Test scenario.xml, Web app Test scenario.xml		146	100	9918	301	Apr 30, 2015, 3:03:34 pm	Apr 30, 2015, 5:14:09 pm
Actions	Test Run		Test Date	Status	Description		
	AL Demo Test Plan _ RPT (01 May 2015 10:00 AM)		May 1, 2015, 10:01:37 am	1	AL Demo Load Test 4		
Scenarios		Max Users	Iterations	# Success	# Failures	Start Date	End Date
Airline website Test scenario.xml, Web app Test scenario.xml, Citrix XenApp Test scenario.xml, Desktop app Test scenario.xml		100	200	14027	73	May 1, 2015, 10:01:37 am	May 1, 2015, 1:57:03 pm
Actions	Test Run		Test Date	Status	Description		
	AL Demo Test Plan _ RPT (04 May 2015 10:15 AM)		May 4, 2015, 10:16:11 am	1	AL Demo Load Test 5		
Scenarios		Max Users	Iterations	# Success	# Failures	Start Date	End Date
Citrix XenApp Test scenario.xml, Desktop app Test scenario.xml, Airline website Test scenario.xml, Web app Test scenario.xml		100	150	12022	79	May 4, 2015, 10:16:11 am	May 4, 2015, 2:35:47 pm

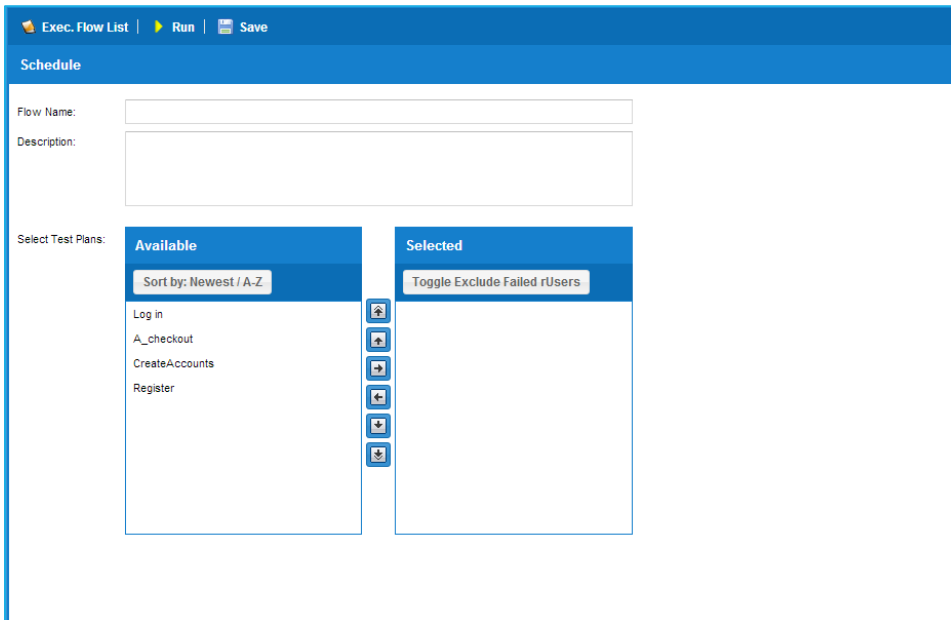
From this section, you can view Test Run name, test date, status, description, scenarios names, max users, number of iterations, number of success, number of failures, start date and end date.

The “Actions” part gives you options to delete  and edit  Test Runs. Also you can view Test Run stats  and Test Run summary  sections.



Create new execution flow

With Execution Flows you are able to cue up a series of Test Plans to automatically play, one after the next. Click the “Create New Execution Flow”  button in the menu bar. The Execution Flow Schedule form opens;



The above image shows how the *Execution Flow Schedule* page looks upon opening.

Flow Name: Enter a name for the Execution Flow (avoid special characters).

Description: Provide an optional description to help identify this Execution Flow.

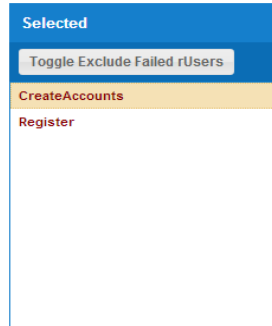
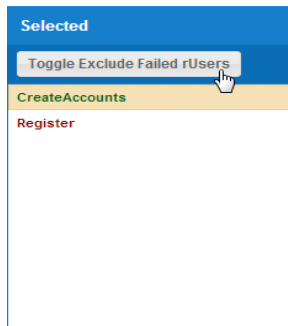
Select Test Plans: Double-click on, the *Available Test Plans* pane the *Test Plans* you wish to include in your Execution Flow. Double clicking on Test Plans in the *Selected Test Plans* pane will remove them. The   arrow icons can also be used to add/remove.

Use the     arrow icons to re-order the Test Plans within the Execution Flow

Toggle Exclude Failed rUsers: Use this feature to establish whether or not to execute tests on the rUsers that failed in the previous test.

Highlight the desired Test Plan in the Selected Test Plans pane and click the “Toggle Exclude Failed rUsers”  button to set. Underlined/Bold Test Plans *will not* execute tests on the rUsers that failed in the previous test;





“CreateAccounts” Test Plan **will not** execute on failed rUsers
 “CreateAccounts” Test Plan **will** execute on failed rUsers

Click “Save”  button to save the Execution Flow.

VIEW EXECUTION FLOW LIST

Click the “Exec. Flow List”  button to see a list of all the existing Execution Flow List;

Create New Test Plan Test Plans List Create New Execution Flow Exec Flows List Scheduled Tests List Run Help				
Actions	Flow Name ↑	Description	Created By	Creation Date
	AB Flow		Administrator	Tue May 26 2015, 9:17:45 AM
	Application Test	Application sign up form	Administrator	Thu May 28 2015, 5:06:06 PM
	Citrix Test	Log on and run application via fat client	Administrator	Thu May 28 2015, 5:07:09 PM
	Flow 1		Administrator	Tue May 26 2015, 3:06:31 PM
	Flow BC		Administrator	Tue May 26 2015, 2:26:19 PM

RUN EXECUTION FLOW

To initiate a test using an Execution Flow, select an Execution Flow click “Run”  button;

Specify Load Test Name

Load Test Name:

Submit

Click “Submit”;

 You can also start the Execution Flow by clicking on the “Exec Flow Link”  Exec Flow Link . Copy the link and paste it on the Web Browser. You can rename the testname in the following link.



Schedule test

Basically you can create tests and schedule them to run load tests automatically at specific intervals of time.

SCHEDULE NEW TEST

Click the “Scheduled Tests List”  button in the menu bar.

Then, click “Schedule New Test”  button. Once you clicked, a new row will appear;

+ Schedule New Test						
Action	Test Plan / Execution Flow	Schedule Date	Schedule Time	Email	Note	Save
	Select a test	Apr 08	00:00	someone@domain.com	Enter a note	

Schedule a test by selecting the desired Test Plan or Execution Flow from the drop down menu and picking a scheduled date and time. The date can be chosen using a calendar widget. Also you can receive load tests results by having notifications sent to your email address.



The date and time should be in your local timezone; the test will run at the time you set in your local time (or whatever timezone you have set in your profile settings).



Note you need to configure SMTP email server capability before AppLoader can send notifications. Please refer to [Test Plan Notifications](#) section for more information.

Add a note for your scheduled test and click “Save”  button upon completing test scheduling settings for selected test.

+ Schedule New Load Test						
Action	Load Test	Schedule Date	Schedule Time	Email	Note	Save
	Healthcare Test Plan	Apr 08	10:15	nrgglobalqa@gmail.com	Healthcare scheduled load test	

When the selected date/time for the test arrives, the Controller will start rUsers automatically if needed, the scheduled test will be removed from the “Scheduled Tests List” and it will be shown as active on the “Real Time” page.



If a load test is in progress, the Controller will wait until the current load test is completed before starting the execution of the scheduled test.

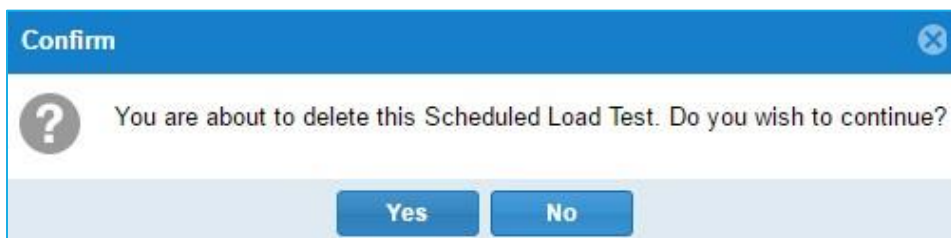


EDIT SCHEDULED TEST

To edit the properties of an existing scheduled test before the execution, click inside the text boxes next to the desired test. Make editing changes and save.

DELETE SCHEDULED TEST

To delete a scheduled test, click  icon next to the desired test;



Click "Yes" to confirm the deletion of the scheduled load test.

VIEW SCHEDULED TESTS LIST

Click the "Scheduled Tests List"  **Scheduled Tests List** button to see a list of all the Scheduled Tests List;

+ Schedule New Load Test						
Action	Load Test	Schedule Date	Schedule Time	Email	Note	Save
	Healthcare Test Plan	Apr 08	10:15	nrgglobalqa@gmail.com	Healthcare scheduled load test	
	Airlines Test Plan	Apr 11	15:00	someone@domain.com	Enter a note ...	
	Citrix app Test Plan	May 23	21:30	nrgglobalnt@gmail.com	Enter a note ...	
	Test Plan C1	Apr 08	10:15	nrgglobalntqa@gmail.com	Enter a note ...	
	XenApp Test Plan 20	Apr 08	10:15	someone@domain.com	XenApp scheduled load test	



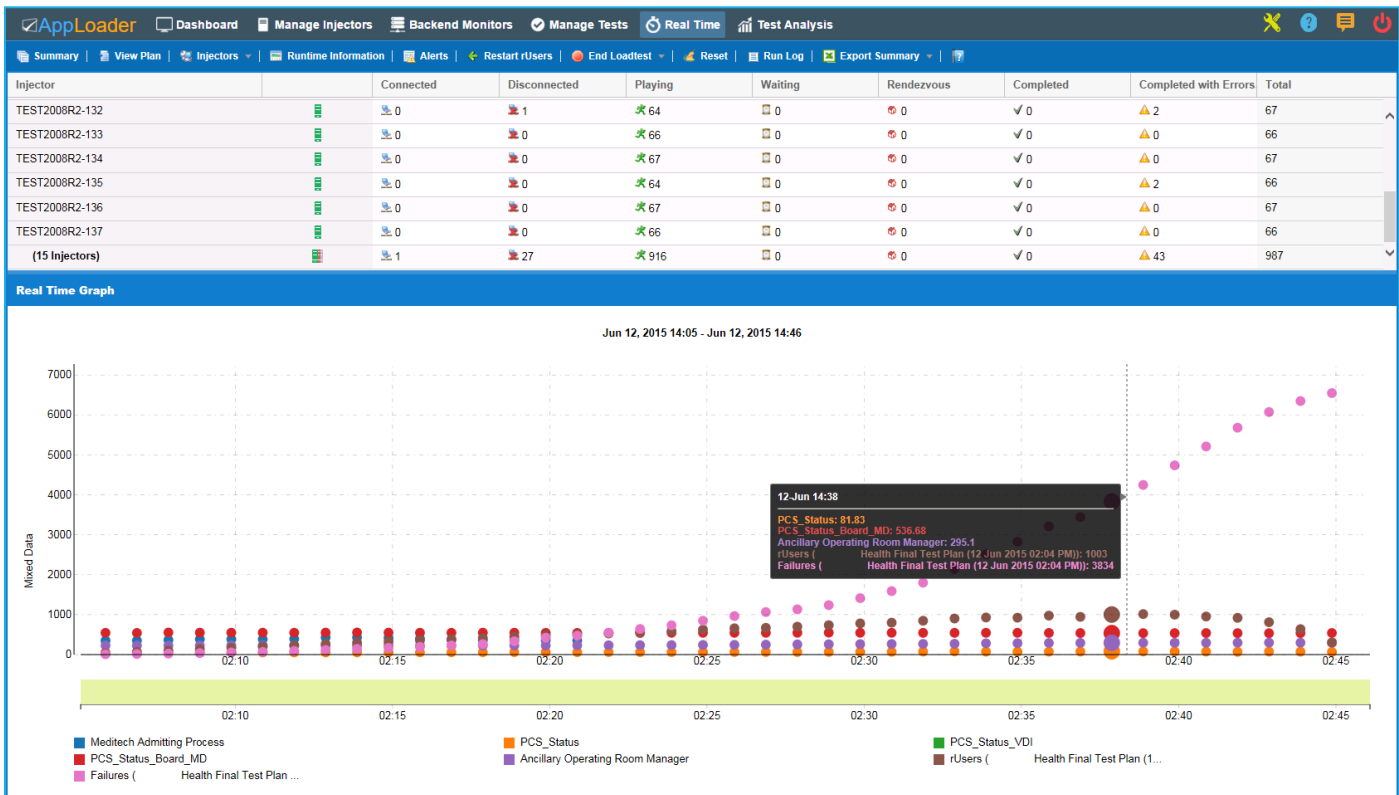
Real time



When a test is in progress you can view summary or detailed results in real time from the AppLoader Controller. AppLoader provides statistical and graphical results on a general or detailed level. Graphical results are updated every minute. See your rUsers status as they progress through connected, waiting, playing, and completed stages. Click status icons to drill down to rUser by rUser up-to-the-minute performance results, including where they are in their current Scenario and screenshots of any errors they've encountered.

View Load Test Status - Summary

Click the “Real Time” Button. “Real Time” page opens in Summary view;



In the rUsers Status pane you get an overview of the rUsers' status on each Injector;

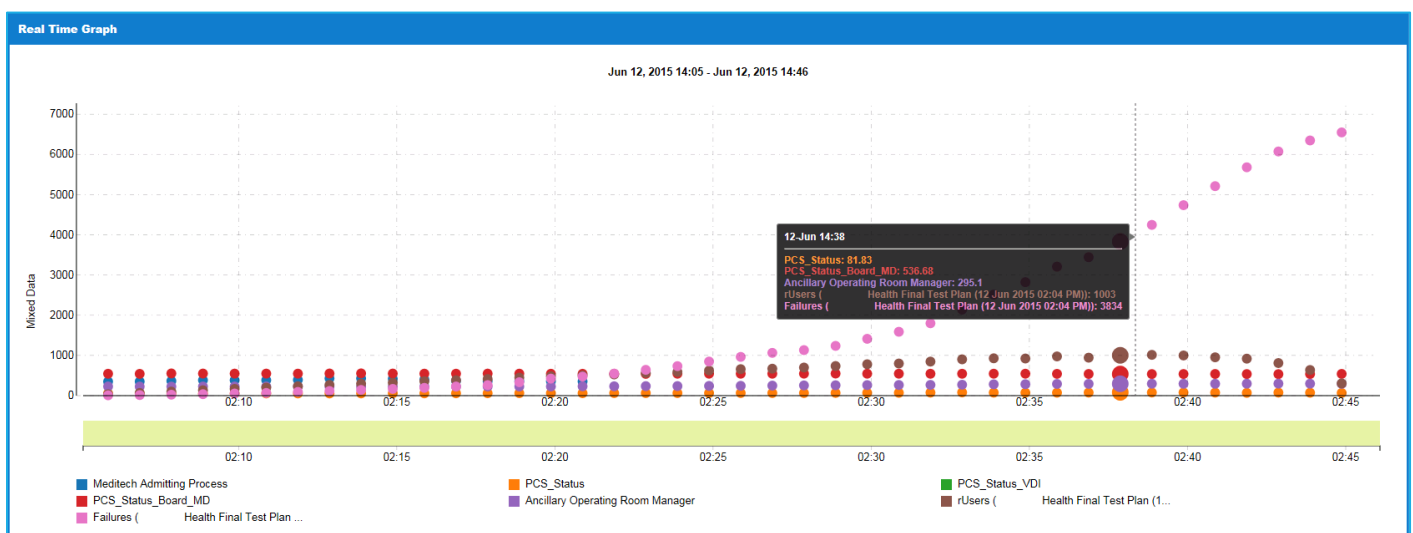
Injector	Connected	Disconnected	Playing	Waiting	Rendezvous	Completed	Completed with Error	Total
WIN-VII7BLEBF4A	12	0	0	0	0	0	0	12
(1 Injectors)	12	0	0	0	0	0	0	12



Below is a brief description of the Summary page columns and the information contained therein:

-  **Connected:** Shows the number of rUsers, by Injector, that are connected to AppLoader Controller and ready to perform load test.
-  **Disconnected:** Shows the number of disconnected rUsers, by Injector. Disconnected rUsers may be a result of limitations of the AppLoader license or limitations in resources on the injector machine.
-  **Playing:** Shows the number of rUsers that are playing the scenario on each Injector.
-  **Waiting:** Shows the number of rUsers that are waiting to play on each Injector.
-  **Rendezvous:** Shows the number of rUsers held at *Rendezvous Points*, waiting to be released in accordance with the Test Plan [Release Policy](#).
-  **Completed:** Shows the number of rUsers that have completed their test execution without any error or failure.
-  **Completed with Errors:** Shows the number of rUsers that have completed their test execution with errors. Click on the icon to see the error message and the screenshot for failed steps.
- Total:** Shows the total number of rUsers on each Injector.

In the Graph pane, you will see a real-time graphical representation including number of rUsers, number of failures, and response times of each Scenario playing. The graph is updated every minute. Place your mouse over any point on the graph to see the time and value for that occurrence;



View load test status - Detail

Click any of the status icons  to view details for each rUser. For example, clicking the “Playing”  icon will display details for rUsers currently playing Scenarios, including their Scenario, current Transaction or Component, last Execution Time, Last Update, etc....

	Status	rUser	Scenario	Trx/Blk/Sub-Scr	Rdv. Pt.	Iter...	Exec. T...	Delay	Last Message	Last Update
1		ruser002	BookFlight.xml	LoadAASite		2/6	Failed	N/A	Transaction: LoadAASite finished in 1.09 sec.	11:22:32 am 03-22-...
2		ruser007	BookFlight.xml	LoadAASite		1/6	N/A		Transaction: LoadAASite finished in 1.05 sec.	11:21:45 am 03-22-...
3		ruser006	BookFlight.xml	LoadAASite		1/6	N/A		Transaction: LoadAASite finished in 1.36 sec.	11:21:31 am 03-22-...
4		ruser009	BookFlight.xml	LoadAASite		1/6	N/A		Transaction: LoadAASite finished in 1.59 sec.	11:22:16 am 03-22-...
5		ruser010	BookFlight.xml	LoadAASite		1/6	N/A		Transaction: LoadAASite finished in 1.28 sec.	11:22:31 am 03-22-...
6		ruser008	BookFlight.xml	LoadAASite		1/6	N/A		Transaction: LoadAASite finished in 1.38 sec.	11:22:00 am 03-22-...
7		ruser001	BookFlight.xml	LoadAASite		2/6	91.76	-1.13 (-1.22%)	Transaction: LoadAASite finished in 1.03 sec.	11:22:06 am 03-22-...
8		ruser003	BookFlight.xml	LoadAASite		2/6	92.56	-0.33 (-0.36%)	Transaction: LoadAASite finished in 1.05 sec.	11:22:37 am 03-22-...
9		ruser004	BookFlight.xml	LoadAASite		2/6	Failed	N/A	Transaction: LoadAASite finished in 1.03 sec.	11:23:02 am 03-22-...
10		ruser005	BookFlight.xml	LoadAASite		1/6	N/A		Transaction: LoadAASite finished in 1.17 sec.	11:21:15 am 03-22-...

Details include:

Status: Icon indicates the current status or the rUser, such as Playing, Connected, etc.

rUser: Displays the name of the rUser.

Scenario: Displays the Scenario that the rUser is currently playing.

Trx/Blk/Sub-Scr: Displays the Transaction, Component, or Sub-Scenario that the rUser is currently playing.

Rdv Pt.: Displays the point at which the rUser is holding until the conditions of the “Release Policy” are met.

Iteration: Displays the number of iterations the rUser has performed.

Exec. Time (in seconds): Displays the Execution Time of the last completed iteration for that rUser.

Delay: Displays the difference between the Reference Time and the actual response time. Negative values indicate that the actual response time is faster than the Reference Time; Positive values indicate that the actual response time is slower than the Reference Time.

Last Message: Displays the latest update message for the rUser.

Last Update: Displays the time of the last update message for the rUser.

Click the “Summary”  button to return from the “Details” view to the “Summary” view.



View the execution plan

Click “View Plan”  button to see the current Test Plan details. How many rUsers are performing the test? What Scenario(s) are being used in the test? How many iterations will each rUser execute? How soon will each rUser begin their iterations? Which variables will be allocated to which rUsers?. Click [here](#) for a detailed explanation of Execution Plan.

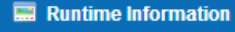
Execution Plan: ExecPlan_Project 10_500 rUsers_Med1_7302

Page 1 of 2

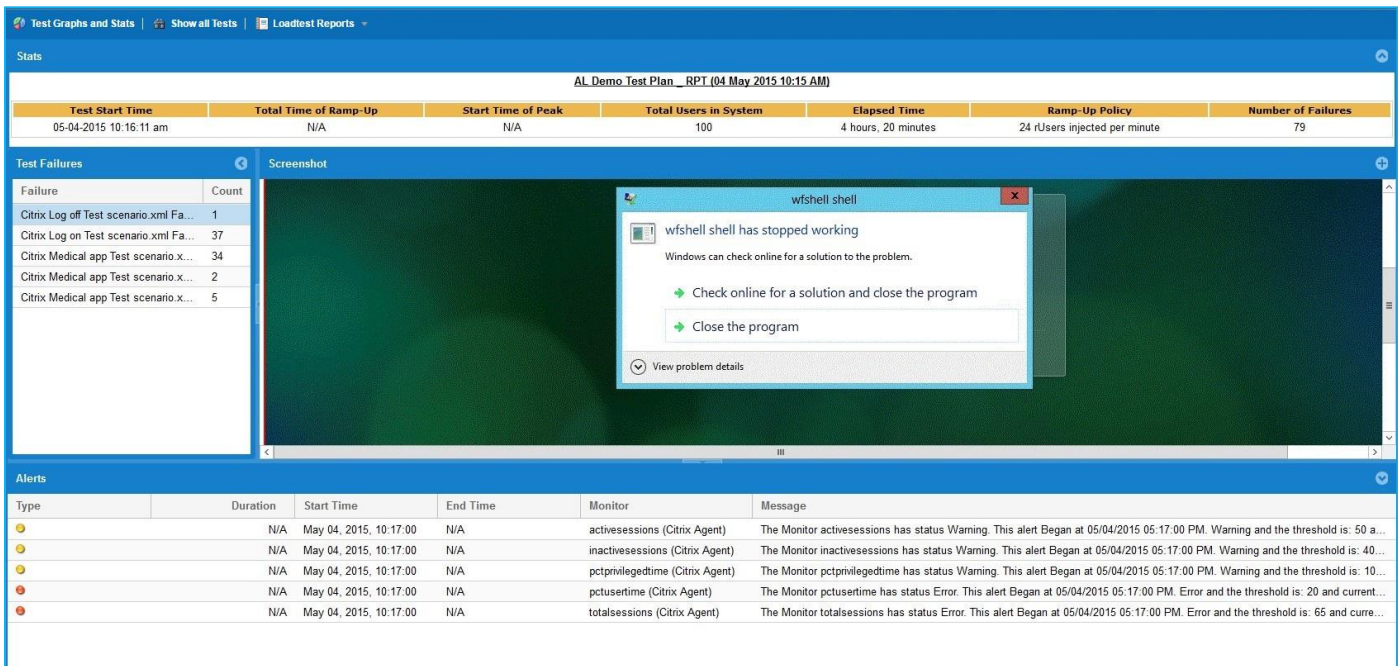
Displaying entries 1 - 25 of 49

#	rUser	Host	Scenario	Iterations	Start Delay (sec)	Start Time	CSV file	Assigned CSV Rows
1	rUser001	192.168.1.12	CTX22.xml	13	0		AppUsers.csv	1
2	rUser002	192.168.1.12	CTX22.xml	13	5		AppUsers.csv	2
3	rUser003	192.168.1.12	CTX22.xml	13	10		AppUsers.csv	3
4	rUser004	192.168.1.12	CTX22.xml	13	15		AppUsers.csv	4
5	rUser005	192.168.1.12	CTX22.xml	13	20		AppUsers.csv	5
6	rUser006	192.168.1.12	CTX22.xml	13	25		AppUsers.csv	6
7	rUser007	192.168.1.12	CTX22.xml	13	30		AppUsers.csv	7
8	rUser008	192.168.1.12	CTX22.xml	13	35		AppUsers.csv	8
9	rUser009	192.168.1.12	CTX22.xml	13	40		AppUsers.csv	9
10	rUser010	192.168.1.12	CTX22.xml	13	45		AppUsers.csv	10
11	rUser011	192.168.1.12	CTX22.xml	13	50		AppUsers.csv	11
12	rUser012	192.168.1.12	CTX22.xml	13	55		AppUsers.csv	12
13	rUser013	192.168.1.12	CTX22.xml	13	60		AppUsers.csv	13
14	rUser014	192.168.1.12	CTX22.xml	13	65		AppUsers.csv	14
15	rUser015	192.168.1.12	CTX22.xml	13	70		AppUsers.csv	15
16	rUser016	192.168.1.12	CTX22.xml	13	75		AppUsers.csv	16
17	rUser017	192.168.1.12	CTX22.xml	13	80		AppUsers.csv	17
18	rUser018	192.168.1.12	CTX22.xml	13	85		AppUsers.csv	18
19	rUser019	192.168.1.12	CTX22.xml	13	90		AppUsers.csv	19
20	rUser020	192.168.1.12	CTX22.xml	13	95		AppUsers.csv	20
21	rUser021	192.168.1.12	CTX22.xml	13	100		AppUsers.csv	21
22	rUser022	192.168.1.12	CTX22.xml	13	105		AppUsers.csv	22
23	rUser023	192.168.1.12	CTX22.xml	13	110		AppUsers.csv	23
24	rUser024	192.168.1.12	CTX22.xml	13	115		AppUsers.csv	24
25	rUser025	192.168.1.12	CTX22.xml	13	120		AppUsers.csv	25

View runtime information

Click the “Runtime Information”  button to get a more detailed look at how rUsers are performing on the Injector. This page groups errors together, providing screenshots of the errors. View screenshot individually by rUser, or in a gallery where they are segregated and grouped by occurrence, allowing you to easily isolate trends and red flags in your application.





Test Start Time: *Date and Time* when the test started.

Total Time of Ramp-up: Time that it takes for all rUsers to enter the test.

Start Time of Peak: Time when all users are in system, this is the start of the [Steady State Time](#).

Total rUsers in System: Total number of playing rUsers.

Elapsed Time: Time elapsed since the test began.

Ramp-up Policy: The number of users *per minute*, injected into the system.

Number of Failures: Number instances where steps either failed to execute or failed to get the expected response from the application under test.



TEST FAILURES / SCREENSHOTS

View screenshots of application slowness or errors occurring during the playback in real-time. The left pane shows the count of failures per each unique failure (multiple occurrences of the same failure are cataloged under one screenshot). The right pane shows the screenshot associated with the failure selected. Click the link in the screenshot pane to view the images in gallery mode.

The screenshot displays the AppLoader interface. On the left, the 'Test Failures' pane shows a table with the following data:

Failure	Count
Citrix Log off Test scenario.xml Fa...	1
Citrix Log on Test scenario.xml Fa...	37
Citrix Medical app Test scenario.x...	34
Citrix Medical app Test scenario.x...	2
Citrix Medical app Test scenario.x...	5

The right pane, titled 'Screenshot', shows a screenshot of the 'Patient Manager Advanced' application. The screenshot includes the text 'Patient Manager Advanced', '©2005-2015 Veritad Systems. All rights reserved.', and 'version 4'. A red box highlights a 'Patients' button in the bottom right corner. Below the screenshot, a message reads: 'Citrix Medical app Test scenario.xml Failed at the step number 8 Click on image: Citrix Test scenario Medical app lmo3.bmo - timeout after 10s'.

ALERTS

View backend server Alerts, if any occurred. This section allows you to view high/medium/low severity behavior of the application's backend servers based on the settings you specified in the [SLA](#) section.

Alerts					
Type	Duration	Start Time	End Time	Monitor	Message
	1 mins	Oct 30, 2013, 4:20:00 pm	Oct 30, 2013, 4:2...	CPU0 (HW 253)	The Monitor CPU0 has status Information. This alert Began at 10/30/2013 04:20:00 PM. Information ...
	1 mins	Oct 30, 2013, 4:21:00 pm	Oct 30, 2013, 4:2...	CPU0 (HW 253)	The Monitor CPU0 has status Error. This alert Began at 10/30/2013 04:21:00 PM. Error and the thre...
	1 mins	Oct 30, 2013, 4:23:00 pm	Oct 30, 2013, 4:2...	CPU0 (HW 253)	The Monitor CPU0 has status Error. This alert Began at 10/30/2013 04:23:00 PM. Error and the thre...
	2 mins	Oct 30, 2013, 4:25:00 pm	Oct 30, 2013, 4:2...	CPU0 (HW 253)	The Monitor CPU0 has status Error. This alert Began at 10/30/2013 04:25:00 PM. Error and the thre...
	4 mins	Oct 30, 2013, 4:19:00 pm	Oct 30, 2013, 4:2...	pctusedphysical (HW ...	The Monitor pctusedphysical has status Information. This alert Began at 10/30/2013 04:19:00 PM. I...
	5 mins	Oct 30, 2013, 4:23:00 pm	Oct 30, 2013, 4:2...	pctusedphysical (HW ...	The Monitor pctusedphysical has status Warning. This alert Began at 10/30/2013 04:23:00 PM. Wa...
	N/a	Oct 30, 2013, 4:28:00 pm	N/a	pctusedphysical (HW ...	The Monitor pctusedphysical has status Information. This alert Began at 10/30/2013 04:28:00 PM. I...

View alerts

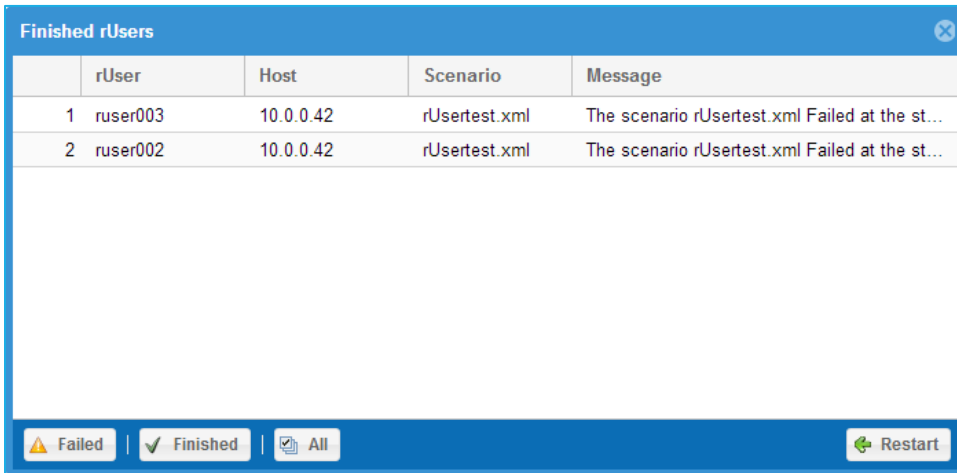
Click the "Alerts" button to view backend server Alerts in a popup window, if any occurred. This section allows you to view high/medium/low severity behavior of the application's backend servers based on the settings you specified in the [SLA](#) section.



Restart rUsers

Click “Restart rUsers”  button to restart finished and/or failed rUsers.

A window will appear with a least of all the rUsers that have finished and failed the current test.



	rUser	Host	Scenario	Message
1	ruser003	10.0.0.42	rUserTest.xml	The scenario rUserTest.xml Failed at the st...
2	ruser002	10.0.0.42	rUserTest.xml	The scenario rUserTest.xml Failed at the st...

At the bottom of the window, there are filters: Failed | Finished | All, and a Restart button.

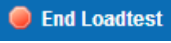
Click on ‘Failed’ to view the rUsers that failed the current load test.

Click on ‘Finished’ to view the rUsers that have completed the current load test.

Click on ‘All’ to view all of the finished rUsers whether they failed or passed the load test.

Select an rUser from the list and click on ‘Restart’ to restart that rUser. After restarting, rUsers start playing from the beginning of the Test Plan.

End load test

Click “End Load Test”  to end the current test and save the reports. When clicking on End Loadtest, please wait and make sure that the test has changed to or from in the “Test Analysis” Page.

Reset

Click “Reset”  button to stop test playback; remove disconnected Injector; delete any active load test; reset the attributes of rUsers status.

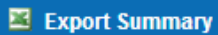


View run log

Click “Run Log”  button to view load test execution logs from the first load test to the latest one.

Execution Log			
Date	Action	Load Test	Message
Oct 29, 2013, 3:38:06 pm	End	surveyTPN (29 Oct 2013 03:29 PM)	Ended by AppLoader
Oct 29, 2013, 3:29:47 pm	Start	surveyTPN (29 Oct 2013 03:29 PM)	Started by Administrator
Oct 29, 2013, 12:21:23 pm	End	googleTest (29 Oct 2013 12:15 PM)	Ended by AppLoader
Oct 29, 2013, 12:15:06 pm	Start	googleTest (29 Oct 2013 12:15 PM)	Started by Administrator
Oct 28, 2013, 2:31:42 pm	Delete	googleTest (28 Oct 2013 12:19 PM)	Deleted by Administrator
Oct 28, 2013, 2:31:37 pm	Delete	googleTest (28 Oct 2013 12:23 PM)	Deleted by Administrator

Export summary

Click “Export Summary”  button to export currently running test results summary to CSV file. Choose from rusers status or failure summary reports. Export it to CSV file and re-graph it using Microsoft excel for report.



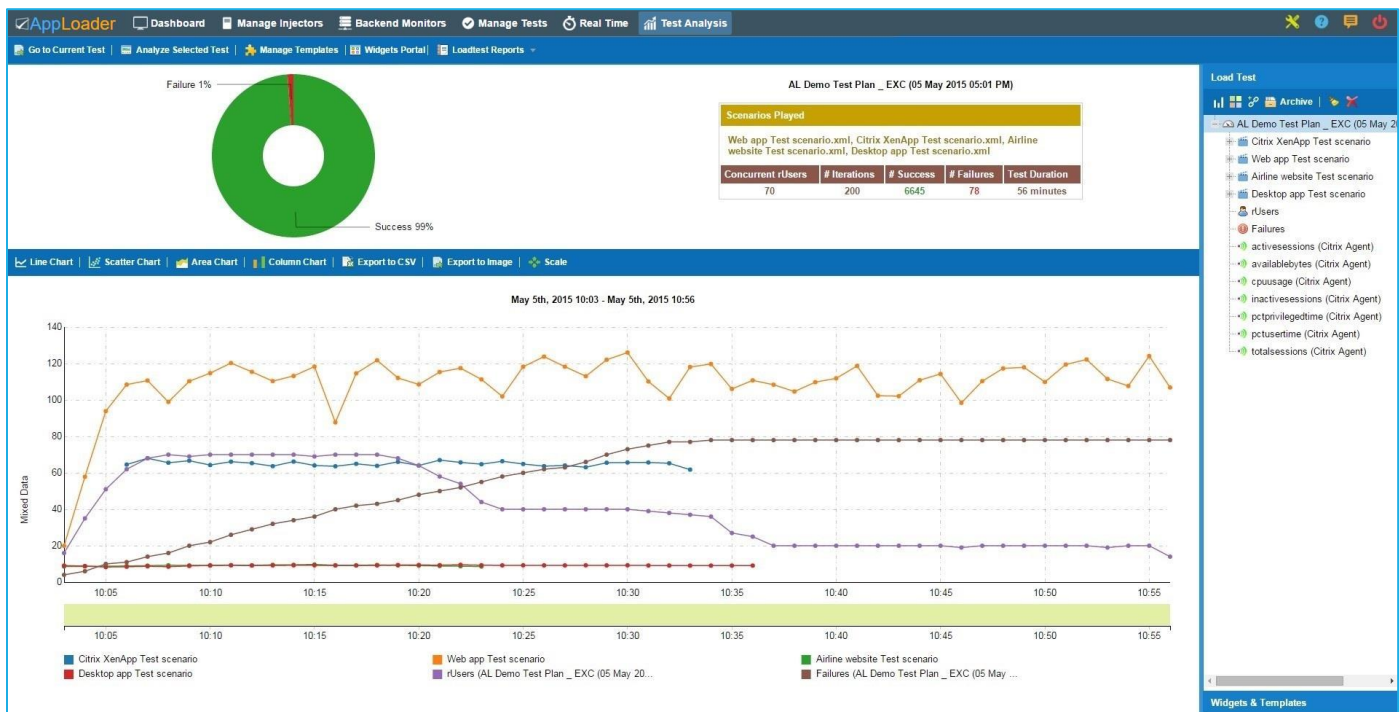
Test analysis



In this section you can analyze your current or previous test(s), get response time graphs and reports, and export complete test data and graphs into excel format. You can see the timing of your transactions, Scenarios, and how your users performed after the test was completed. View standard reports.

Test analysis page layout

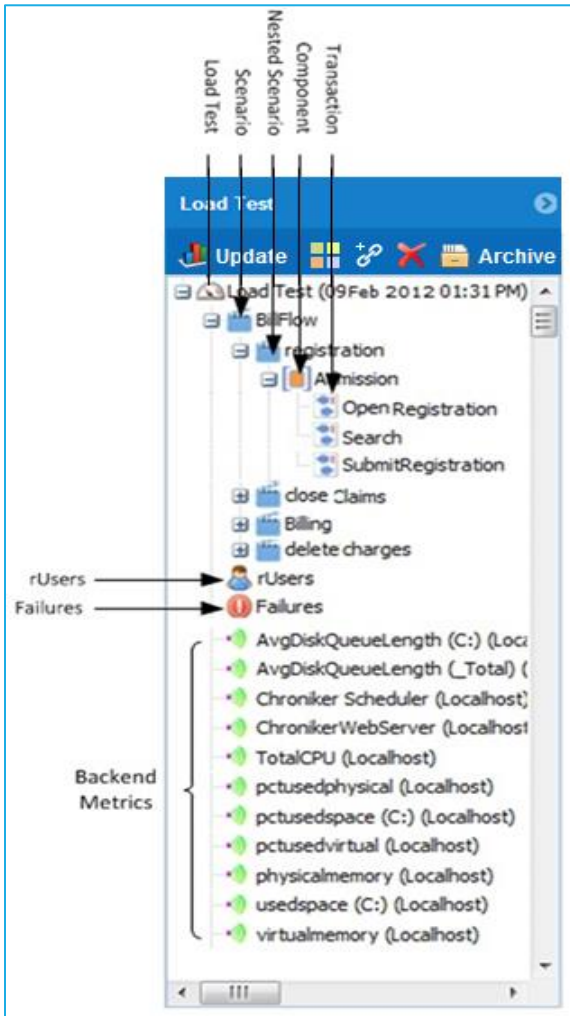
The Test Analysis page contains five panes: Load Test; Widgets & Templates; Pie Chart; Stats and Graph.



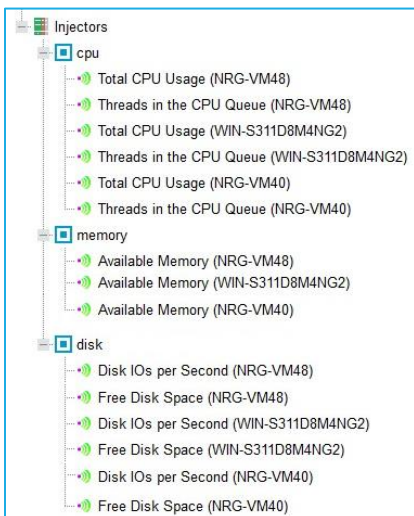
Load test

The Load Test pane contains the test “tree” showing the current test. The tree can be expanded to drill down through each Scenario, to the Component and Transaction levels. Also, the tree includes rUsers and Failures . If a backend template was included in the test, the metrics associated with the template would also be viewable here.





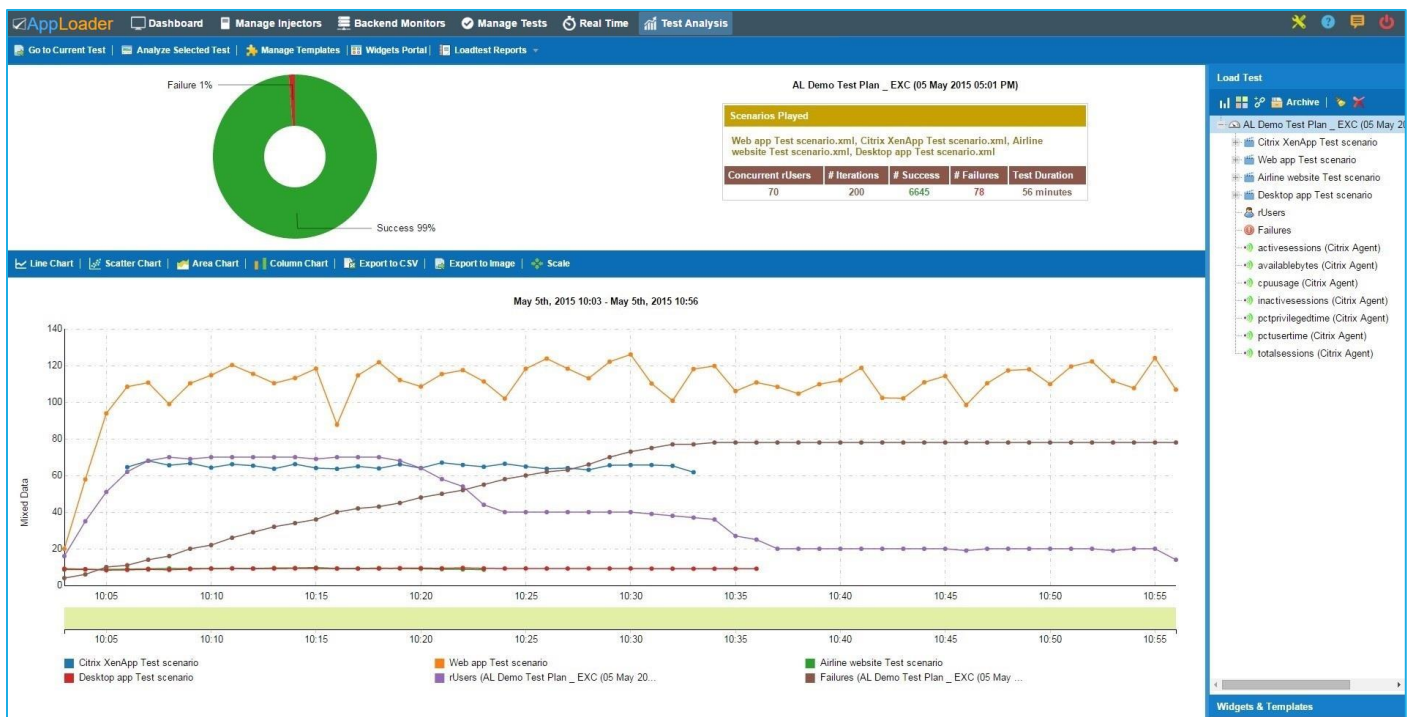
Also, when a Load Test starts, the Injector(s) captures metrics statistics about the machine it is running on (CPU Usage, Input Output Usage, Memory Usage). AppLoader will show these stats for that Load Test under “Injectors” node.



PIE CHART, STATS AND MIXED DATA GRAPH

The Pie Chart pane displays success/failure rate of the current load test. The Stats pane contains summary information including max number of users reached during the playback, total number of Scenario iterations played, # of successes, # of failures, and total duration of the test. And the Mixed Data Graph allows you to show response times, number of rUsers, failures and backend metrics for the load test in a single graph in any combination that you desire. However, the graph can be displayed with different types of charts.

Click on the overall test plan (top of the tree in the Load Test pane) to display the pie chart, stats and graph for the test;



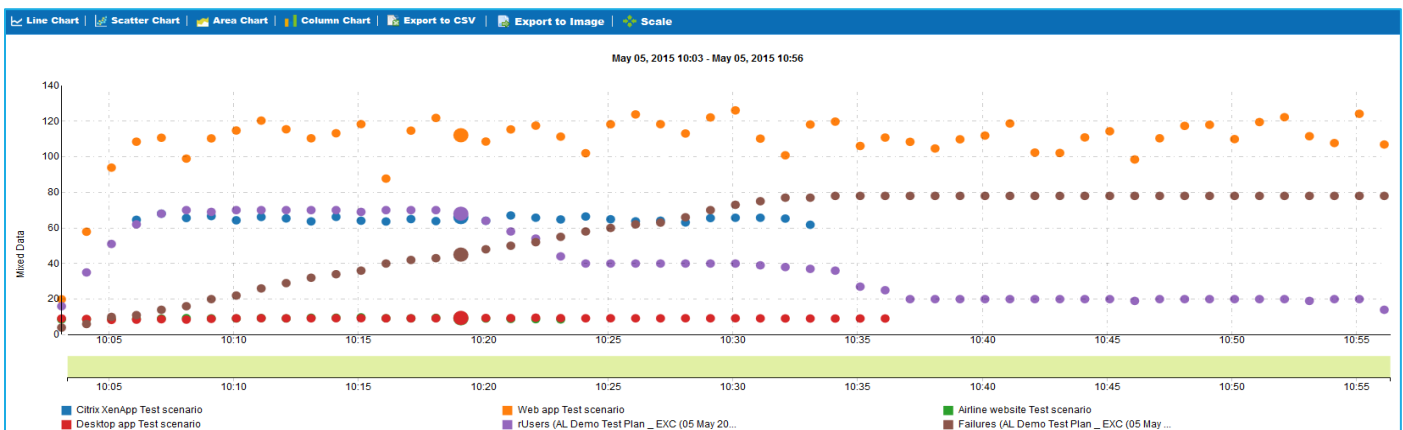
CHANGE THE GRAPH STYLE

The graph can be displayed with different types of charts. The “Line Chart” is the default one.

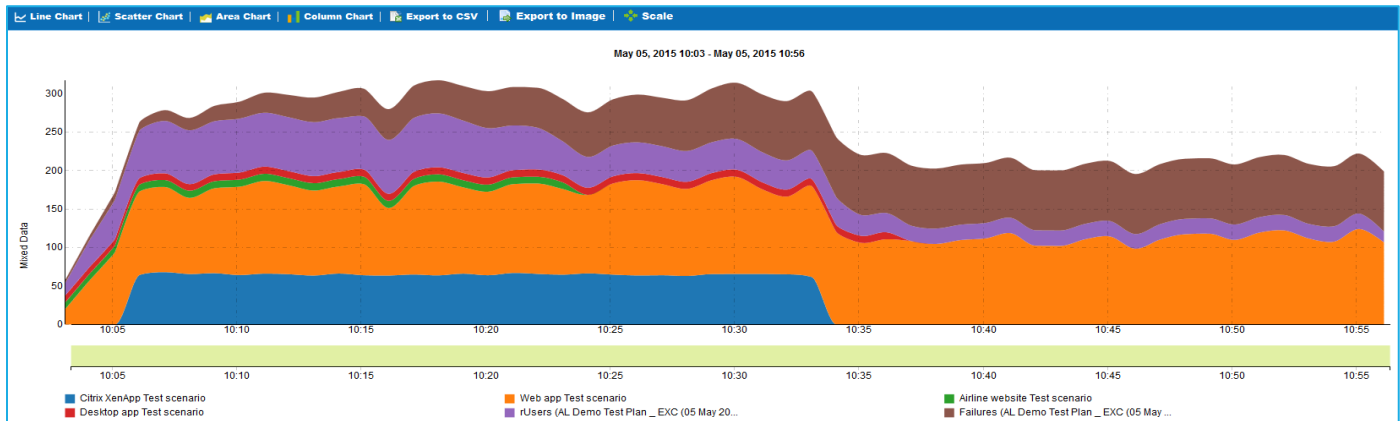
Line Chart:



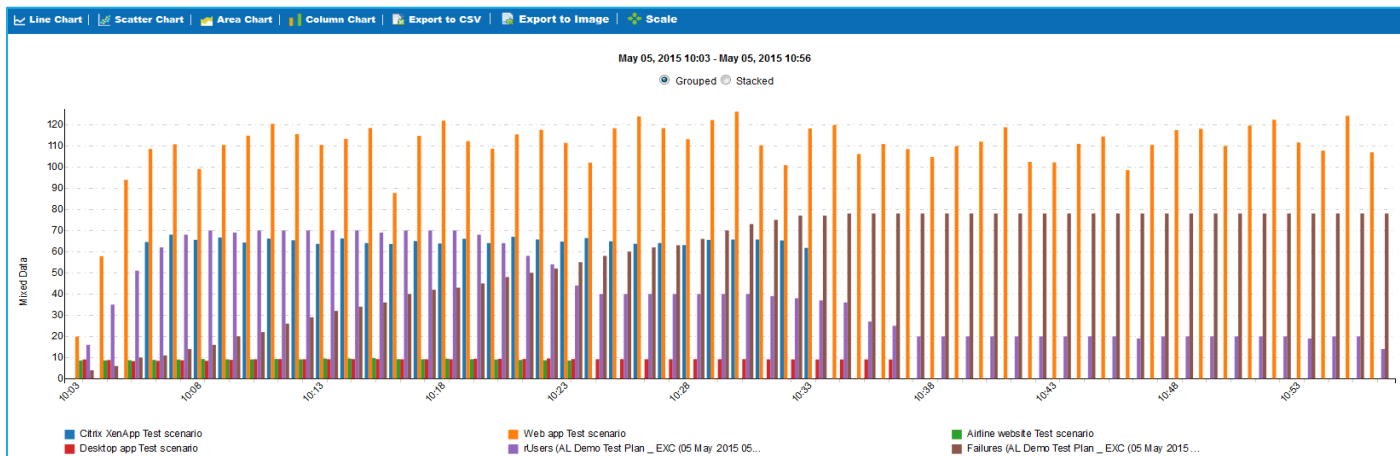
Scatter Chart:



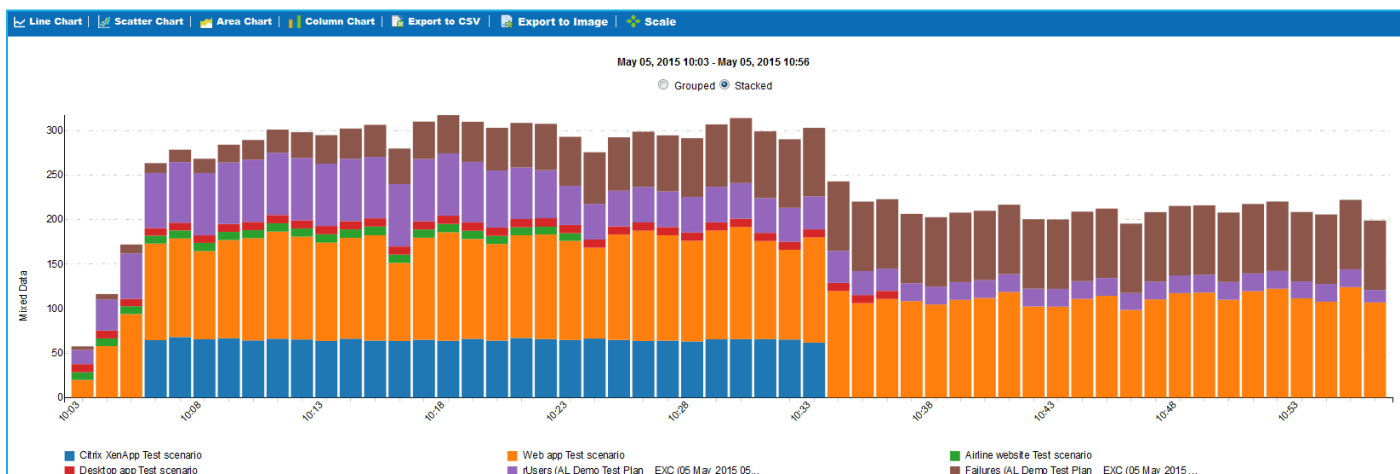
Area Chart:



Column Chart (Grouped):



Column Chart (Stacked):



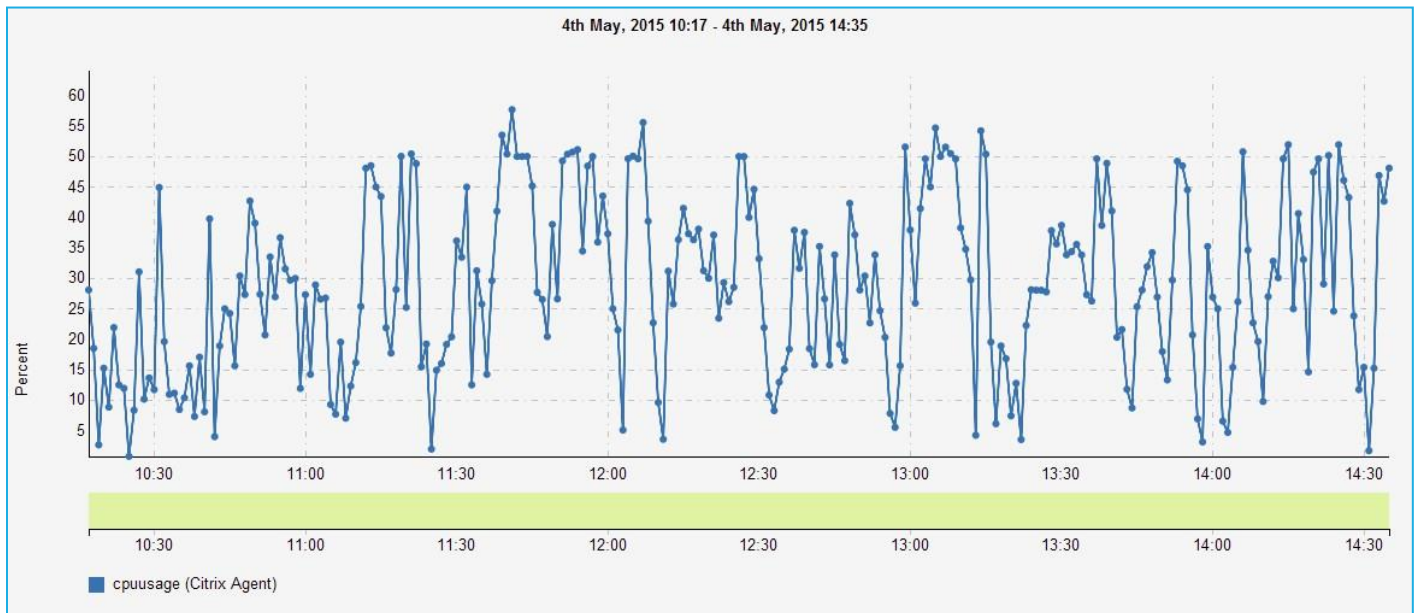
Click on  to export the current graph data to CSV file;



Click on  to export the current graph stats to PNG image;



Here is an example:

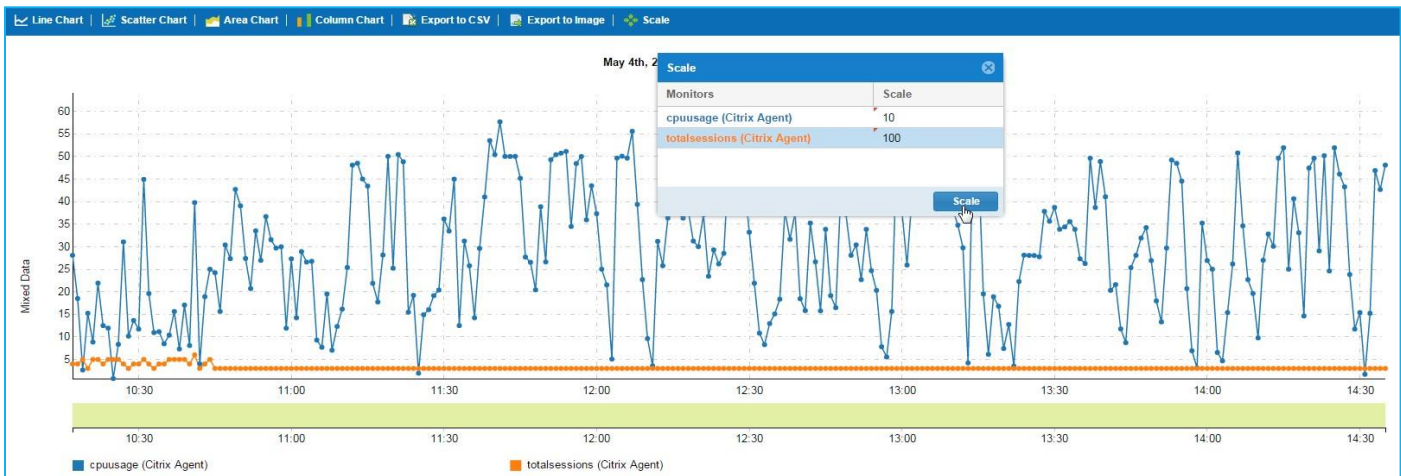


Scale graph: Use the  icon to scale the graph of one or more objects (scenarios, transactions, rUsers, failures, metrics, etc.) when comparing multiple objects;

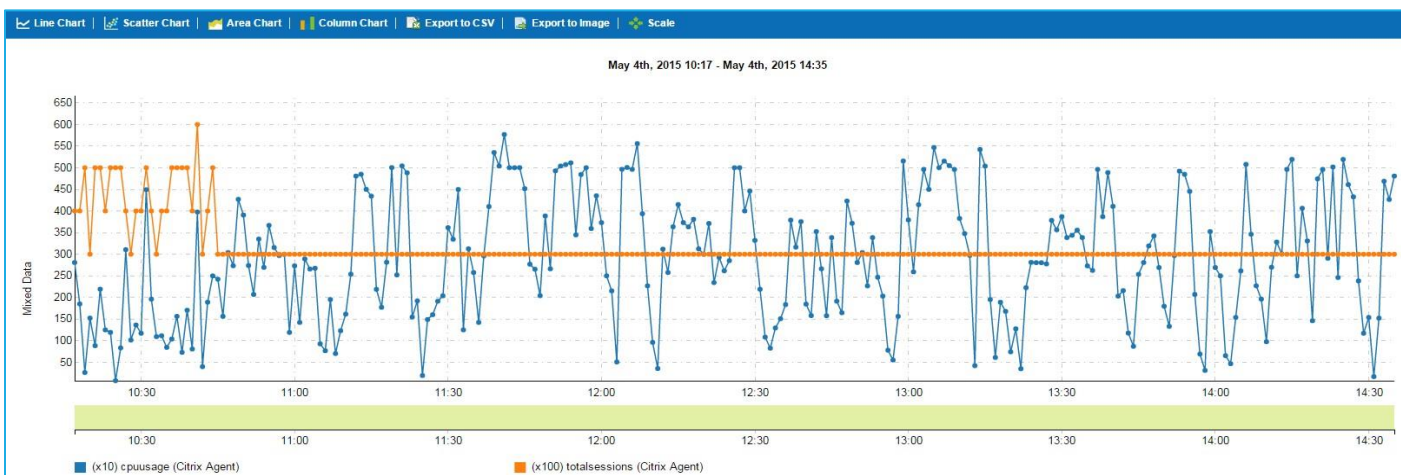


Here you can set any value for the scale;





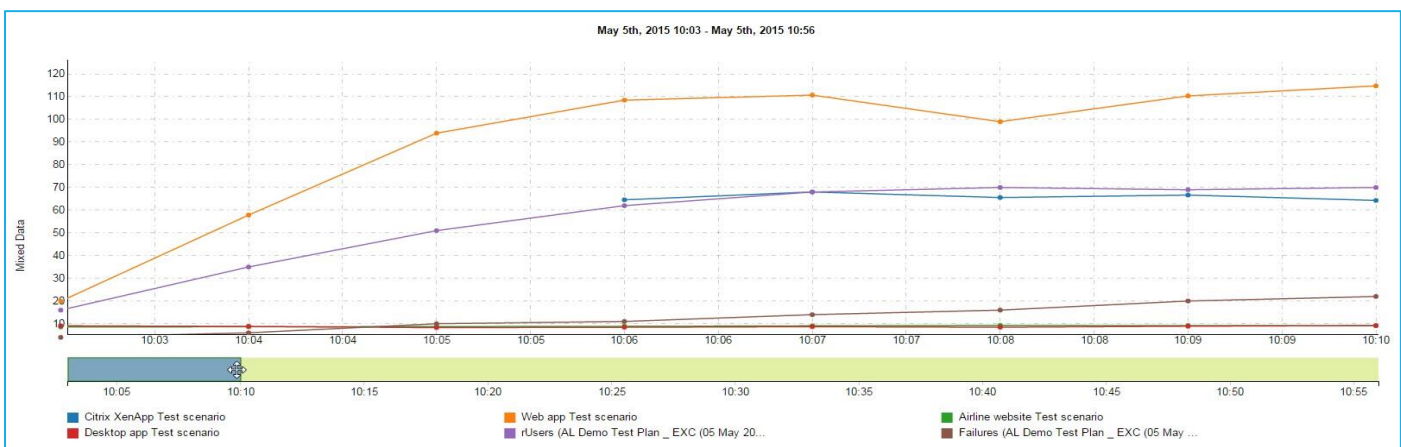
The graph will be updated.



GRAPH ACTIONS

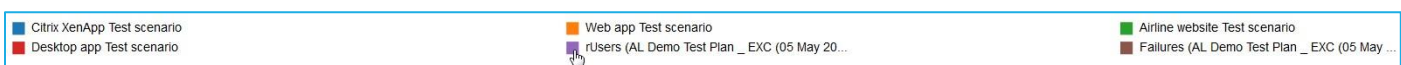
Zoom in: Zoom into a section of the graph by highlighting the light green part of the graph with the cursor. This process of zooming in can be repeated multiple times.





Reset graph: To reset the graph, double click anywhere on the light green part.

Toggle Data On/Off: Click on the color on the legend to toggle that data on/off.

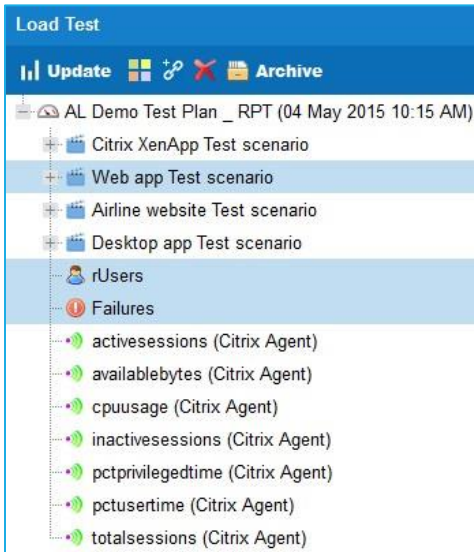


Right clicking on a Scenario, transaction or component on the Metric Tree in the window to the right will allow the 'Delay value' and 'Delay Percentage' to be toggled on/off.

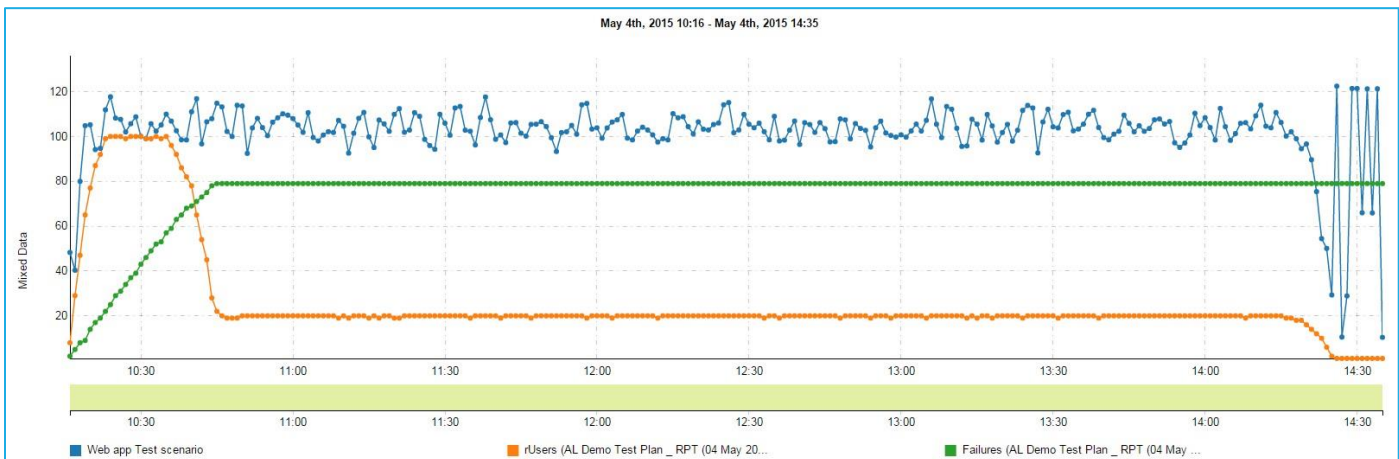


UPDATE SELECTED TESTS

Hold down ctrl on the keyboard while clicking on multiple items in the Load Test tree to select a combination of mixed data to graph;



Then click the Update icon  to create a graph comparing the selected data;



The graph's "X" or horizontal axis displays the span of time over which the data was collected.

The "Y" or vertical axis displays digits reflecting seconds or measurement values depending on the metric shown in the graph. In cases where mixed data is displayed, the "Y" value can represent a different type of measurement, depending on the item graphed. For example, in the graph shown above, the green line and orange lines, represent Failures and rUsers respectively. Therefore, the corresponding "Y" value would represent a number (number of rUsers; number of total Failures).



SELECT MULTIPLE OBJECTS TO CREATE WIDGETS

To select multiple objects to create Widgets, click on 

SELECT MULTIPLE OBJECTS TO LINK TO WIDGETS

To select multiple objects to link to an existing Widget, click on 

 You can do the “[Add Widget](#)” and “Link to Widget” tasks for different objects such as TestPlans, SubScenarios, rUsers, Failures, Backend Monitors and etc. by right clicking on that object.

ARCHIVE SELECTED TESTS

Archive selected tests to remove them from the load test database and store them in the archive database. Use the “Delete” and “Archive” functions to remove tests from the “Load Test” pane and keep it manageable and easy to navigate. Archived tests can be accessed at any time by simply [searching previous tests](#) and checking the “Use Archived Data” box.

To archive, select a test by clicking on it, then click the “Archive Selected Tests”  icon. Use *Ctrl* + click to select multiple tests to archive at once.

To change the archived test folder location, open the *chroniker.ini* file with a text editor like notepad;

`\Program Files\NrgGlobal or Automai\AppLoader\apps\includes\chroniker.ini`

In the *[database]* section, modify the *ArchivesFolder="C:\Program Files\NrgGlobal or Automai\AppLoader\archives"* line;

`ArchivesFolder="YOURFOLDER\archives"`

Save the *chroniker.ini* file and close.



DELETE SELECTED TESTS

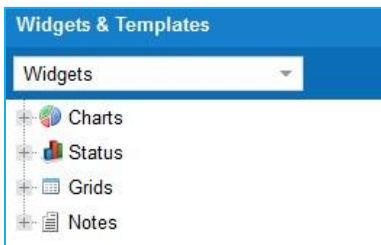
Select a test by clicking on it, then click the “Delete Selected Tests”  icon to delete. Use *Ctrl* + click to select multiple tests to delete at once.

DESELECT NODES

Click the “Deselect”  icon in order to deselect all of the selected tree nodes.

Widgets & templates

The “Widgets & Templates” pane is used to view all the Widgets being created from different objects. Through this pane all Widgets can be seen and edited. Also you can add Widgets into Templates. The drop down list can be used to filter the Widgets and Templates.



Template: The layout that is defined for a Dashboard. A Template is used to organize Widgets.

Widget: The component that is added into a Template to display data. Widget can display charts, graphs, failures, Alerts and stats information from Load Testing.

Template avails users to add Widgets together, and then you can view them in “[Widgets Portal](#)” part.

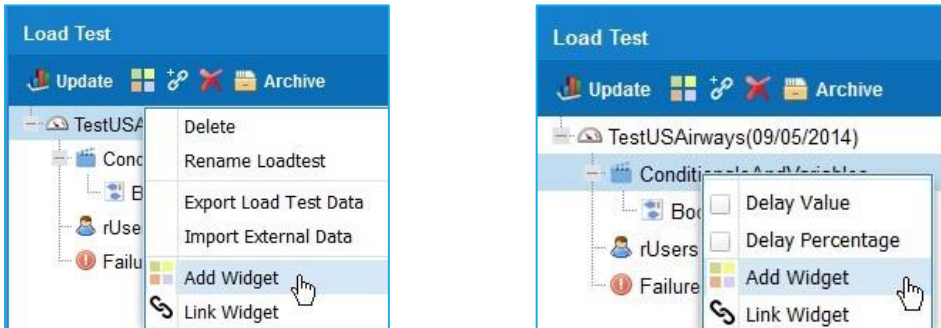
Users can add one or more Load Tests to a new widget or link them to the other Widgets.

 You can also view the “Widgets & Templates” pane from “Manage Templates”  **Manage Templates** in the “Test Analysis” section.



ADD WIDGET

To add a Widget, select the object (TestPlans, SubScenarios, rUsers, Failures, Backend Monitors and etc.) in the “Load Test” pane and right click on it;



The “Create New Widget” form opens in a new tab;

The image shows a 'Create a Widget' form with the following sections:

- Required Information:**
 - Widget Name:
 - Widget Title:
 - Widget Type: Four radio buttons with icons representing different widget types: a line chart, a pie chart, a list, and a notepad.
- Widget Details:**
 - Report Type: Three radio buttons labeled 'Test Stats' (selected), 'Test Alerts', and 'Test Failures'.
 - Widget Size: Three radio buttons with grid icons representing different sizes: 2x2, 3x3, and 4x4.
- Description:**
 - A text area with the placeholder text 'Enter description...'.
- Save:** A blue button at the bottom right.

There are 4 types of Widgets: Chart, Status, Grids and Notes that can be created from individual objects.





Please note that some types are disabled for different objects. i.e. You can not create Chart Widget for TestPlan or you can not create Status and Notes types for SubScenarios, rUsers, Failures, Backend Monitors and etc.)

Chart Widget Form:

Widget Name: Specify a name for this Widget. Widget name is the name that appears in Widget list. So use a name that is descriptive and representative of the Widget.

Widget Title: Specify a title for this Widget. Widget Title appears in the Widget header in the Template. The following variable can be used with Widget Title:

{i1}, {i2}... – Number next to **i** corresponds to the item name in Widget Details.

Widget Type: Select the “Chart”  type for this Widget.

Widget Details: This part shows details for this Widget depending on the Widget Type that was selected.

Item: It shows the Scenario’s name.

Chart Color: Pick a color for this Widget.

Chart Type: Choose one of the types for this Widget. There are four types that could be selected: Line, Area, Column and Scatter.

Widget Size: Choose a size for this Widget. (Default: “1 x 3 Pixels”)

Description: Optional description field to help identify this Widget.



Create a Widget

Required Information

Widget Name:

Widget Title:

Widget Type: ☒ ☐ ☐ ☐

Widget Details

Item	Chart Color	Chart Type
ConditionalsAndVariables	#3366FF	Line

Widget Size: ☐ ☐ ☒

Description

Save

Status Widget Form:

Widget Name: Specify a name for this Widget. Widget name is the name that appears in Widget list. So use a name that is descriptive and representative of the Widget.

Widget Title: Specify a title for this Widget. Widget Title appears in the Widget header in the Template. The following variable can be used with Widget Title:

{i1}, {i2}... – Number next to **i** corresponds to the item name in Widget Details.

Widget Type: Select the “Status”  type for this Widget.

Widget Details: This part shows details for this Widget depending on the Widget Type that was selected.

Widget Size: Choose a size for this Widget. (Default: “1 x 1 Pixels”)

Description: Optional description field to help identify this Widget.



Grids Widget Form:

Widget Name: Specify a name for this Widget. Widget name is the name that appears in Widget list. So use a name that is descriptive and representative of the Widget.

Widget Title: Specify a title for this Widget. Widget Title appears in the Widget header in the Template. The following variable can be used with Widget Title:

{i1}, {i2}... – Number next to **i** corresponds to the item name in Widget Details.

Widget Type: Select the “Grids”  type for this Widget.

Widget Details: This part shows details for this Widget depending on the Widget Type that was selected.

Report Type: Select the Report Type for this Widget. There are 3 types: 1. Test Stats 2. Test Alerts 3. Test Failures

Widget Size: Choose a size for this Widget. (i.e. “1 x 3 Pixels”)

Description: Optional description field to help identify this Widget.



Notes Widget Form:

Widget Name: Specify a name for this Widget. Widget name is the name that appears in Widget list. So use a name that is descriptive and representative of the Widget.

Widget Title: Specify a title for this Widget. Widget Title appears in the Widget header in the Template. The following variable can be used with Widget Title:

{i1}, {i2}... – Number next to **i** corresponds to the item name in Widget Details.

Widget Type: Select the “Notes”  type for this Widget.

Widget Details: This part shows details for this Widget depending on the Widget Type that was selected.

Put notes about this Widget.

Widget Size: Choose a size for this Widget. (i.e. “1 x 1 Pixels” or “1 x 2 Pixels”)

Description: Optional description field to help identify this Widget.



After completing the “New Widget” parameters, click on “Save”.

A message pops up stating “Widget was successfully created”.



Click “OK” to complete the adding of the Widget.

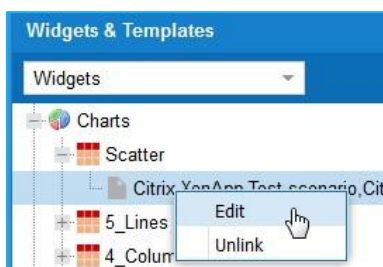
After creating Widget, it will be added to the Widgets List depending on the Widget Type. And also they can be added to a Template.





EDIT WIDGET

To edit a Widget, select the object from Widgets List and right click on it



Click on “Edit”;

The “Update Widget” form opens in a new tab;

Item	Chart Color	Chart Type
Citrix XenApp Test scenario	#993300	Scatter
Citrix Log on Test scenario	#008000	Scatter
Citrix Medical app Test scenario	#FF99CC	Scatter
Citrix Log off Test scenario	#0000FF	Scatter
Web app Test scenario	#FFCC00	Scatter
Desktop app Test scenario	#FF0000	Scatter
Mobile app Test scenario	#808000	Scatter

Edit the Widget and click on “Update”.

A message pops up stating “Widget was successfully updated.”;

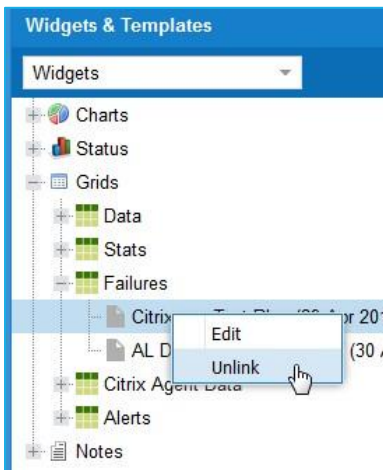


Click “OK” to complete the updating of the Widget.



UNLINK WIDGET

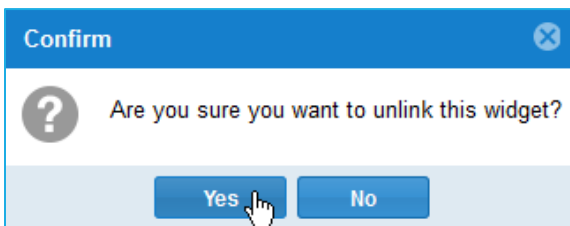
To unlink a Widget, select the object from Widgets List and right click on it



Click on “Unlink”;

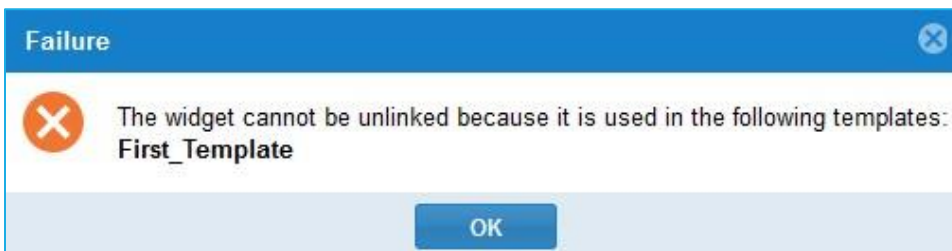
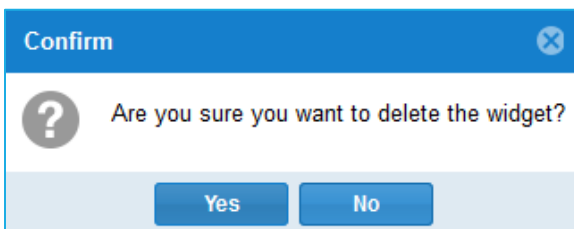
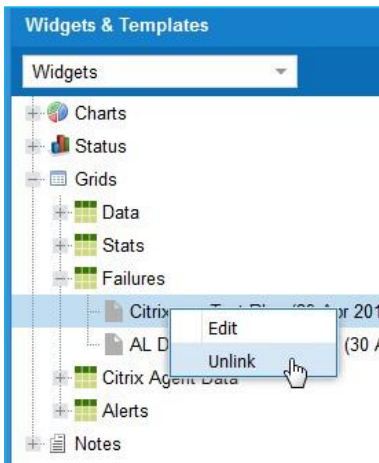
“Confirm” window pops up;

Click “Yes” to finalize the unlinking of the Widget.



If the Widget is being used in a Template, it cannot be deleted.



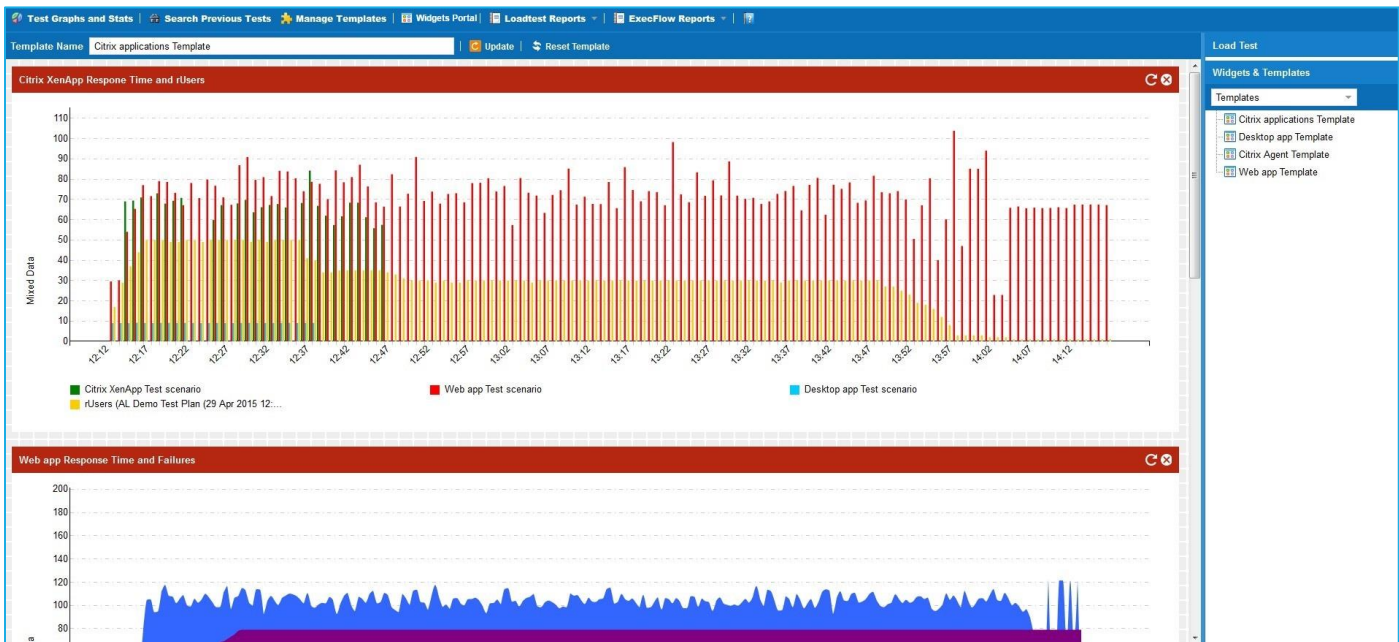


REMOVE WIDGET FROM TEMPLATE

To remove Widget from Template, open the Template

Find the Widget you want to remove;

Click on 



Click on “Update”  to update Template and save the changes.



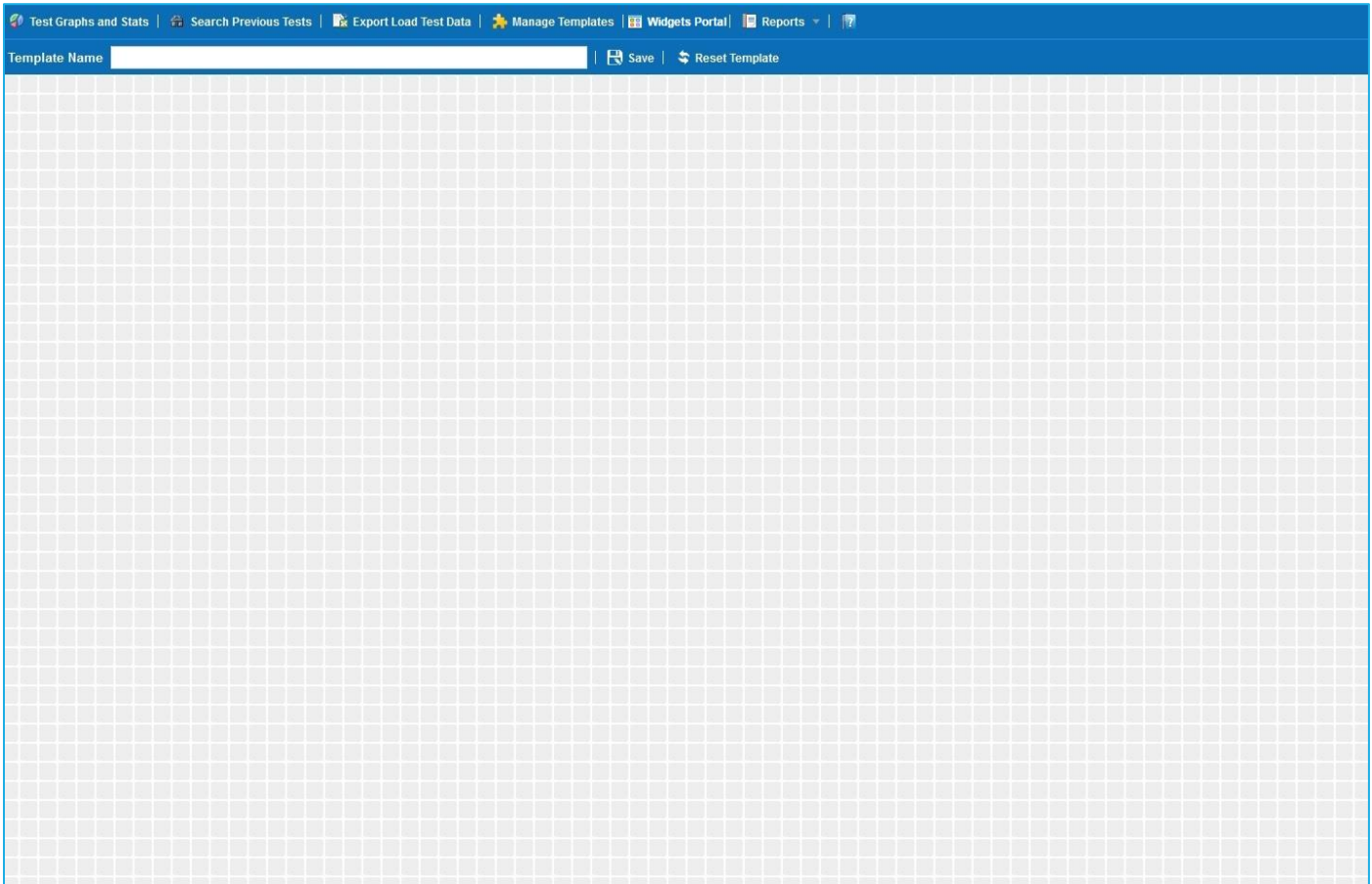
You can also update Widgets Graphs from Templates with clicking on .



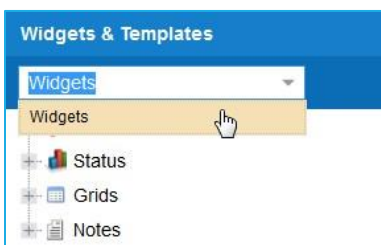
ADD NEW TEMPLATE

To add a Template, click on the “Manage Templates” .

Once you click, a new form will be opened;

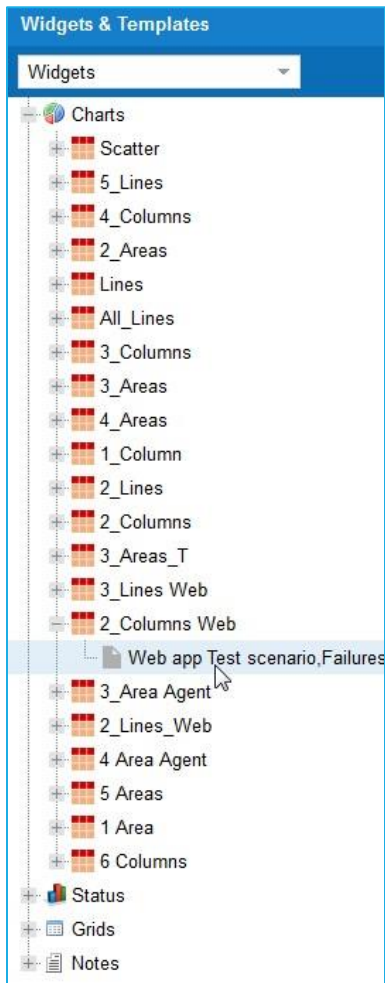


Select the Widgets from drop down list in the “Widgets & Templates” pane.

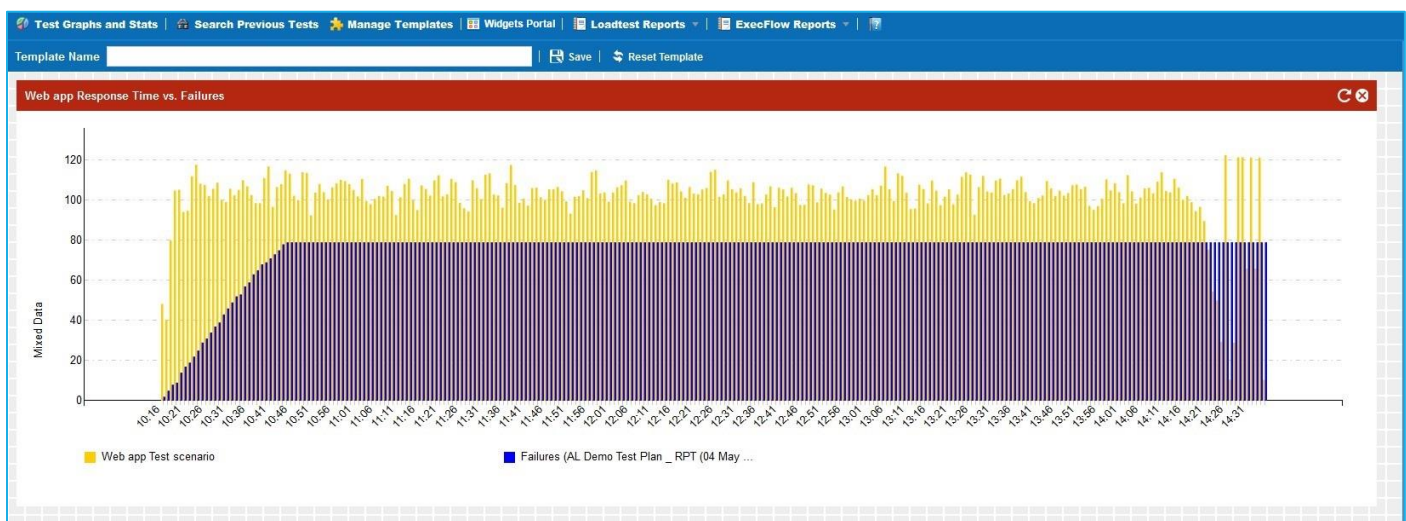


Next open one of the types and click on the Widget (s) you want to add to a Template;





Once you select, it will be added to the “Template” form;

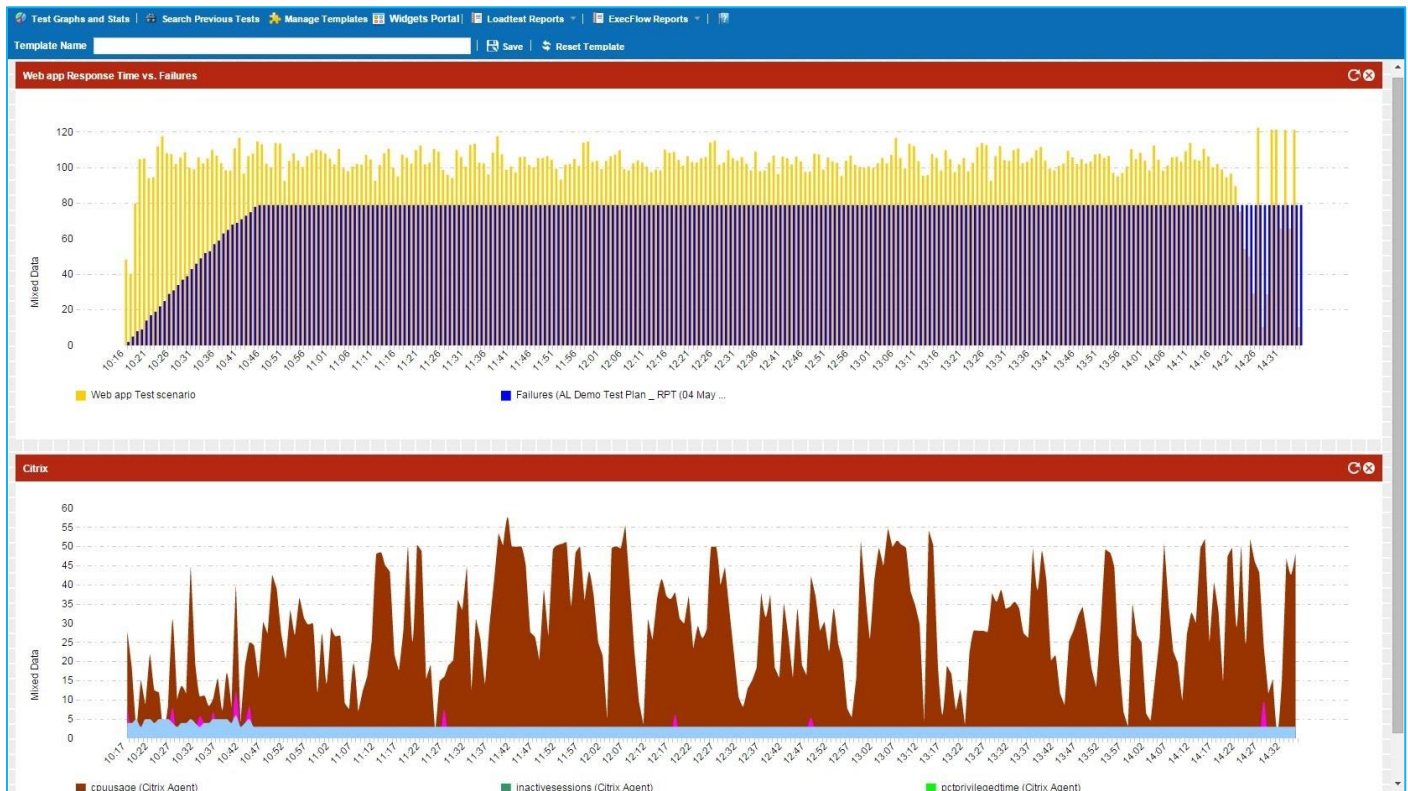


Template Name: Put an appropriate name for this Template



Select as many Widgets as you want to add them to this Template.

Click on “Save”  to save the Template.



A message pops up stating “The Template was successfully created”;

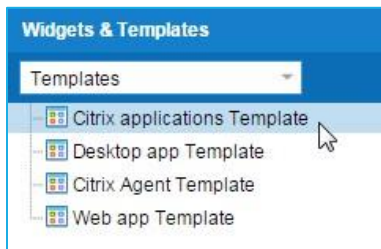


Click “OK” to complete the adding of the Template.



EDIT TEMPLATE

After creating Template, click on the “Widgets” drop down list and select “Templates” to view the Templates List.



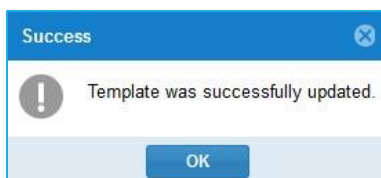
Click on the Template you want to edit;



Here you can add or remove Widgets from Template;

Next, click on “Update”  to update Template and save the changes.

A message pops up stating “The Template was successfully updated”;

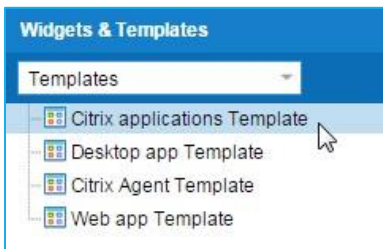


Click “OK” to complete the updating of the Template.

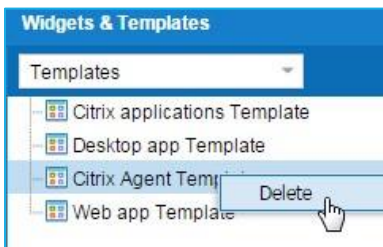


DELETE TEMPLATE

Select the “Widgets & Templates” pane, and then select the “Templates” from the drop down list



Select the Template you want to delete and right click on it;



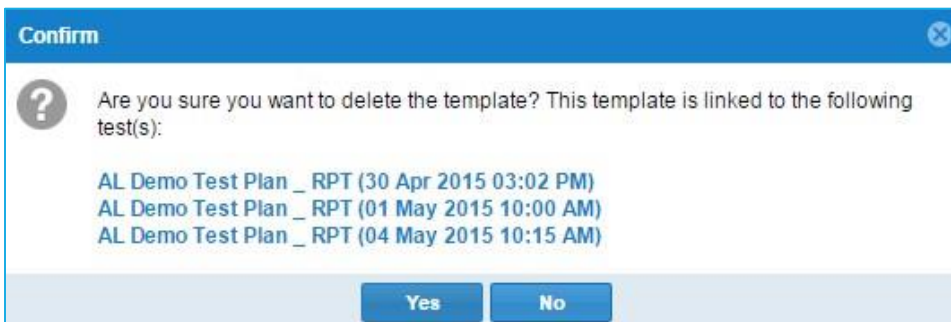
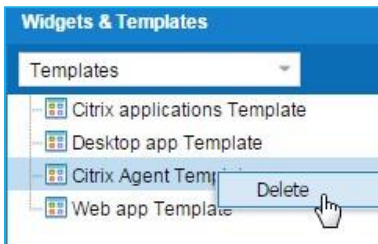
“Confirm” window pops up;



Click “Yes” to finalize the deletion of the Template.



 Please note that maybe the Template(s) is being used in Test(s), so if you delete it, it will be deleted from Widgets Portal.

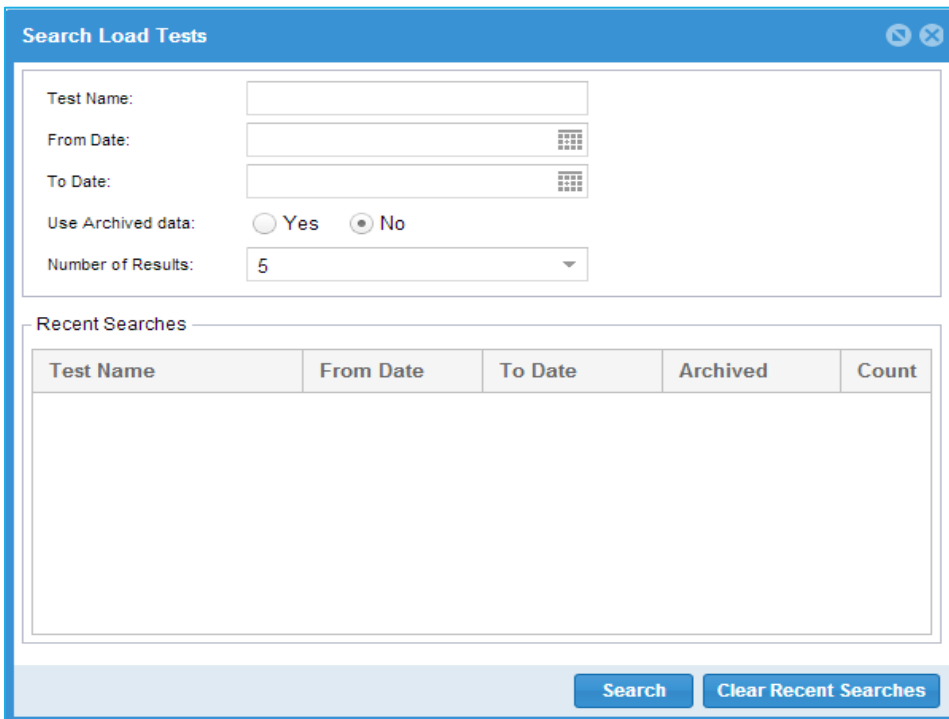


Analyze current test

Click the “Analyze Current Test”  **Analyze Current Test** button to see saved summary results (same as [Runtime Information](#) found on “Real Time Results” page).

Search previous tests

Click the “Search Previous Tests”  **Search Previous Tests** button to search for a previous test and view the graphs and reports. “Search Load Tests” form pops up;



Search Load Tests

Test Name:

From Date:

To Date:

Use Archived data: ☐ Yes ☒ No

Number of Results:

Recent Searches

Test Name	From Date	To Date	Archived	Count

Search **Clear Recent Searches**

Test Name: Enter the full or partial test name. Note that the string of characters you enter in this field must match tests exactly, so use a short string or keyword if unsure of how tests were named.

From Date: Select a beginning date range to filter search results.

To Date: Select an ending date range to filter search results.

Use Archived data: Check this box if you wish to search from only tests which have been archived (if unchecked, search will exclude archived tests).



Number of Results: Choose one of the pre-defined values to limit search results (5;10;15;20;30;50;75;100).

Recent Searches: Select from the list of recent searches to execute a previously defined search.

Clear Recent Searches: To clear the list of “Recent Searches”, click this button.

Complete the form and click “Search” to execute your search.

In the below example, the search should return up to 5 tests containing the word “Test” in the name;

Search Load Tests

Test Name:

From Date:

To Date:

Use Archived data: ☐ Yes ☒ No

Number of Results:

Recent Searches

Test Name	From Date	To Date	Archived	Count..
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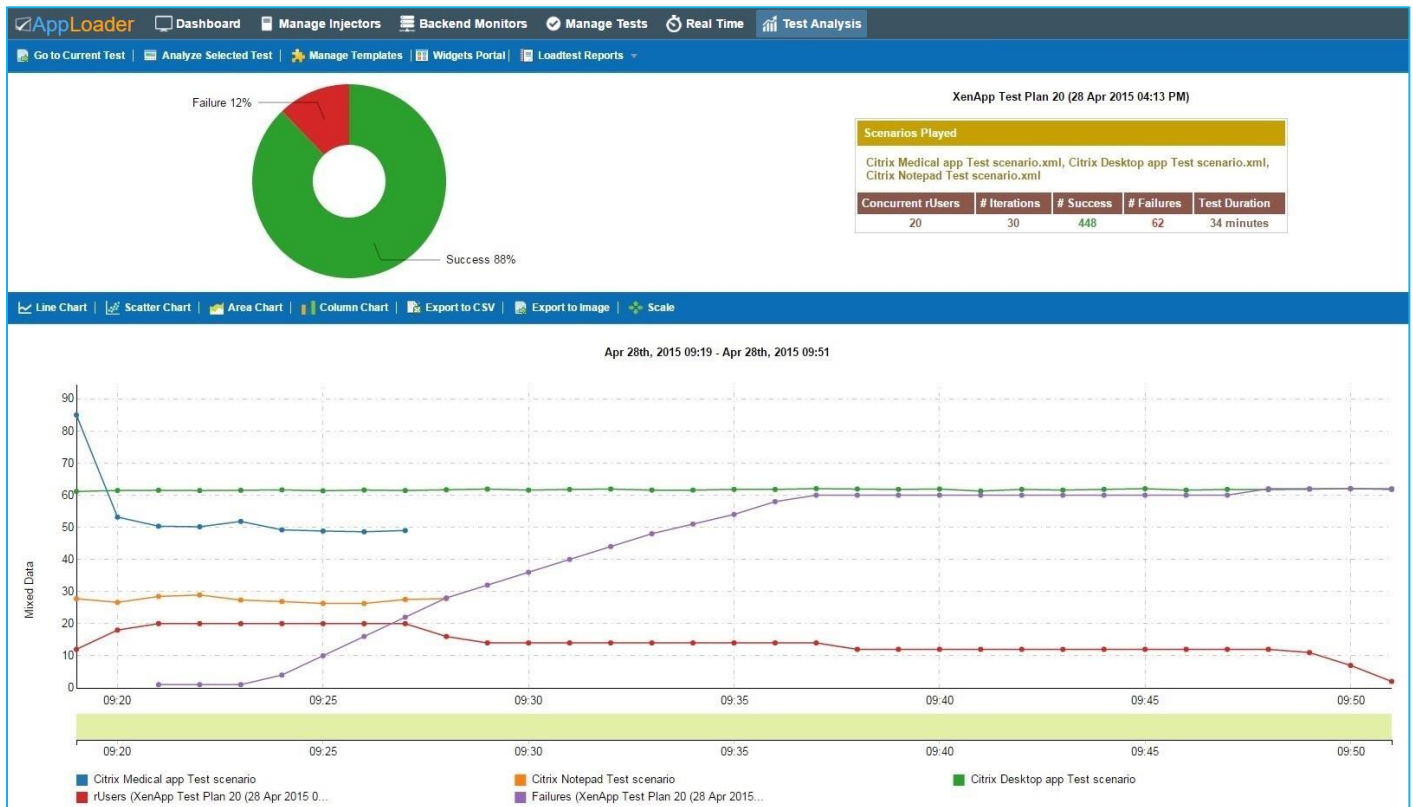
Here's the result set;

Load Test

AppLoader Test Plan (28 Apr 2015 1	
XenApp Test Plan 20 (28 Apr 2015 0	
Test Plan C1 (27 Apr 2015 11:38 PM)	
3 scripts Citrix Test Plan (27 Apr 201	
Citrix Test Plan (27 Apr 2015 10:22 P	

Click on any one of the tests in the results window to display its test statistics, pie chart and performance graph in the “Test Analysis” window;





Analyze selected test

Click on any one of the tests in the results window and click the “Analyze Selected Test” button. “Test Stats” for that test will open in a new window (displayed in the same format as [Runtime Information](#) form from “Real Time” page).



Manage templates

Please refer to [Manage Templates](#) section for more information.

Widgets portal

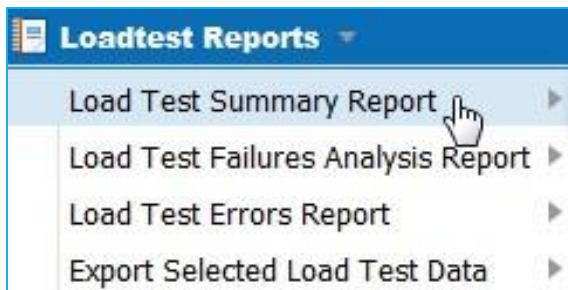
Please refer to [Widgets Portal](#) section for more information.



Reports

Click on any one of the tests in the results window and click the “Loadtest Reports”  button to expand the Loadtest Reports menu. Select one of the following pre-defined reports:

LOAD TEST SUMMARY REPORT



The Load Test Summary Report provides statistical analysis (minimum value, average value, maximum value, standard deviation and 90th percentile), summarized at the Scenario, Component and Transaction levels. This test is a good indicator as to how good your test results are (grouped close to the average or spread out over a wide range).

Load Test Errors Report for: Registration Test (30 Oct 2013 10:39 AM)									
Name	Min. Value	Avg. Value	Max. Value	Std. Dev.	90th Percentil	rUsers	Iterations	Failures	
Med Admission.xml	25.12	31.42	40.76	5.67	38.34	5	7	19	
log in	2.57	5.37	14.2	2.88	9.0	5	7	1	
form	18.94	22.72	29.98	3.46	28.25	5	7	18	

Min Value: The shortest amount of time it took to play the Scenario.

Avg. Value: The Average time taken to play the Scenario.

Max Value: The Maximum amount of time taken to play the Scenario.

Std. Dev.: The amount of how much variation exists from the average. A low Std. Dev. would mean the values are close to the Avg Value. A high Std. Dev. would indicate the values are spread over a large range of values.



90th Percentile: Shows the results of rUsers in the 90% percentile.

rUsers: Number of users in the test.

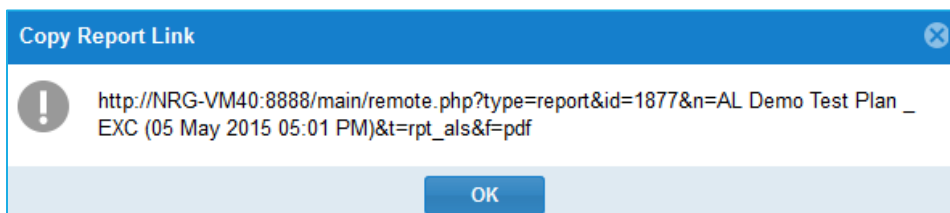
Iterations: Number of iterations played in this Load Test.

Failures: Number of Failures in this Load Test.

Click the “PDF”  button in the lower right hand corner of the report to create a pdf file for printing or attaching to an email.

Click the “CSV”  button in the lower right hand corner of the report to export the report to a comma separated values file.

 You can also view Load Test Summary Report by clicking on the “Summary Report Link”  [Summary Report Link](http://NRG-VM40:8888/main/remote.php?type=report&id=1877&n=AL Demo Test Plan _ EXC (05 May 2015 05:01 PM)&t=rpt_als&f=pdf) . Copy the link and paste it on the Web Browser.

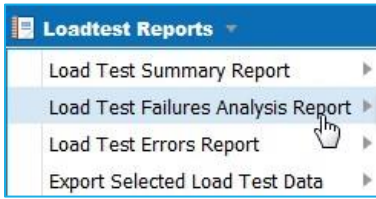


Once you open the link on your browser, you will see the Summary Report:

AppLoader		AL Demo Test Plan _ EXC (05 May 2015 05:01 PM)_SummaryReport						
Name	Min. Value	Avg. Value	Max. Value	Std. Dev.	90th Percentile	rUsers	Iterations	Failures
Citrix XenApp Test scenario.xml	61.77	64.99	70.05	1.71	66.62	5	25	78
Citrix Log on Test scenario.xml	8.46	10.31	12.67	0.96	11.39	5	25	52
Log on	8.46	10.31	12.67	0.96	11.39	5	25	52
Citrix Medical app Test scenario.xml	48.7	49.95	56.94	1.37	50.67	5	25	26
Login	28.84	29.77	36.91	1.14	30.73	5	25	21
Citrix Log off Test scenario.xml	3.67	4.83	5.6	0.75	5.46	5	25	0
Log off	3.68	4.83	5.61	0.75	5.46	5	25	0
Web app Test scenario.xml	10.55	104.18	179.99	27.87	134.58	20	33	0
Launch Website	0.01	0.26	2.7	0.41	0.83	20	33	24
Search Website	10.54	103.87	179.95	27.89	134.22	20	33	0
Airline website Test scenario.xml	7.8	9.23	11.91	0.5	9.61	30	100	0
Launch Airline Website	0.01	0.02	0.44	0.04	0.04	30	100	2481
Launch Airline Website	0.01	0.02	0.44	0.04	0.05	30	100	2630
Find Flights	5.35	6.79	9.53	0.47	7.42	30	100	0
Desktop app Test scenario.xml	7.55	9.12	13.79	0.41	9.49	15	200	0
Open application	5.12	6.75	11.42	0.39	7.12	15	200	0
Close application	2.29	2.37	2.81	0.04	2.4	15	200	0



LOAD TEST FAILURE ANALYSIS REPORT



This report groups and summarizes failures, and shows the highest iteration at which a particular failure occurred.

Scenario Name	rUsers	Max Iteration #	# of Failures	Error Message
Med Admission.xml	5	4	1	Scenario: Med Admission.xml, Block: -, Line: , Command: , Error: The Playback of the...
Med Admission.xml	5	5	4	Scenario: Med Admission.xml, Block: -, Line: , Command: , Error: The Playback of the...
Med Admission.xml	5	7	14	Scenario: Med Admission.xml, Block: Form Fields, Line: , Command: , Error: The Play...

Scenario Name: Name of the Scenario that was played.

rUsers: The number of rUsers performing the test.

Max Iteration #: The highest iteration at which a particular failure occurred.

of Failures: The total number of times a particular failure occurred.

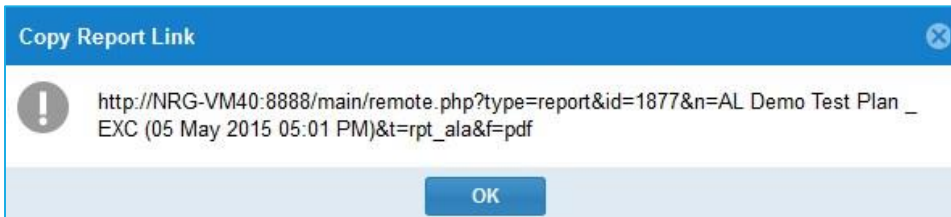
Error Message: The message describing where and why a particular failure occurred.

Click the “PDF”  button in the lower right hand corner of the report to create a pdf file for printing or attaching to an email.

Click the “CSV”  button in the lower right hand corner of the report to export the report to a comma separated values file.



 You can also view Load Test Failure Analysis Report by clicking on the “Failure Report Link”  **Failure Report Link** . Copy the link and paste it on the Web Browser.



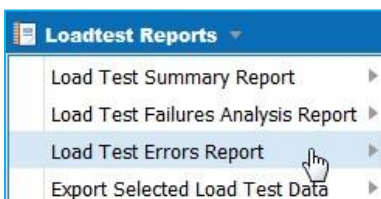
Once you open the link on your browser, you will see the Failure Analysis Report:

AppLoader

AL Demo Test Plan _ EXC (05 May 2015 05:01 PM)_AnalysisReport

Scenario Name	Users	Max Iteration #	# of Failures	Error Message
Citrix XenApp Test scenario.xml	5	0	1	Scenario: Citrix Medical app Test scenario.xml, Block: -, Line: , Command: , Error: Citrix Medical app Test scenario.xml Failed at the step number 8 Click on image: Citrix Test scenario_Medical app_img3.bmp - timeout after 30s. Type: execution type error: the test did not succeed
Citrix XenApp Test scenario.xml	5	19	4	Scenario: Citrix Medical app Test scenario.xml, Block: -, Line: , Command: , Error: Citrix Medical app Test scenario.xml Failed at the step number 14 Find an image: Citrix Test scenario_img1.bmp - timeout after 30s. Type: execution type error: the test did not succeed
Citrix XenApp Test scenario.xml	5	24	21	Scenario: Citrix Medical app Test scenario.xml, Block: -, Line: , Command: , Error: Citrix Medical app Test scenario.xml Failed at the step number 4 Find an image: Citrix Test scenario_Medical app_img2.bmp - timeout after 60s. Type: execution type error: the test did not succeed
Citrix XenApp Test scenario.xml	5	25	52	Scenario: Citrix Log on Test scenario.xml, Block: -, Line: , Command: , Error: Citrix Log on Test scenario.xml Failed at the step number 3 Find an image: Citrix Test scenario_Citrix Receiver_img1.bmp - timeout after 60s. Type: execution type error: the test did not succeed

LOAD TEST ERRORS REPORT



This report lists errors by Scenario, by iteration.



Load Test Errors Report for: Registration Test (30 Oct 2013 10:39 AM)			
Scenario Name	Iteration #	# of Failures	Error Message
Med Admisssion.xml	1	3	Scenario: Med Admisssion.xml, Block: Form Fields, Line: , Command: , Error: The Playback of the scenari...
Med Admisssion.xml	2	1	Scenario: Med Admisssion.xml, Block: -, Line: , Command: , Error: The Playback of the scenario Med Adm...
Med Admisssion.xml	2	2	Scenario: Med Admisssion.xml, Block: Form Fields, Line: , Command: , Error: The Playback of the scenari...
Med Admisssion.xml	3	1	Scenario: Med Admisssion.xml, Block: -, Line: , Command: , Error: The Playback of the scenario Med Adm...
Med Admisssion.xml	3	1	Scenario: Med Admisssion.xml, Block: Form Fields, Line: , Command: , Error: The Playback of the scenari...
Med Admisssion.xml	4	1	Scenario: Med Admisssion.xml, Block: -, Line: , Command: , Error: The Playback of the scenario Med Adm...
Med Admisssion.xml	4	1	Scenario: Med Admisssion.xml, Block: -, Line: , Command: , Error: The Playback of the scenario Med Adm...
Med Admisssion.xml	4	2	Scenario: Med Admisssion.xml, Block: Form Fields, Line: , Command: , Error: The Playback of the scenari...
Med Admisssion.xml	5	1	Scenario: Med Admisssion.xml, Block: -, Line: , Command: , Error: The Playback of the scenario Med Adm...
Med Admisssion.xml	5	2	Scenario: Med Admisssion.xml, Block: Form Fields, Line: , Command: , Error: The Playback of the scenari...
Med Admisssion.xml	6	2	Scenario: Med Admisssion.xml, Block: Form Fields, Line: , Command: , Error: The Playback of the scenari...
Med Admisssion.xml	7	2	Scenario: Med Admisssion.xml, Block: Form Fields, Line: , Command: , Error: The Playback of the scenari...

Scenario Name: Name of the Scenario that was played

Iteration #: The iteration at which a particular error occurred

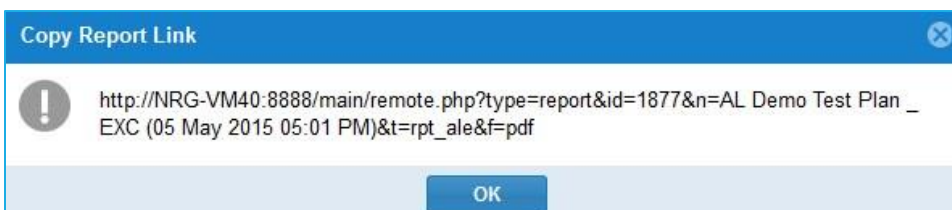
of Failures: The number of times a particular failure occurred at a particular iteration.

Error Message: The message describing where and why a particular failure occurred.

Click the “PDF”  button in the lower right hand corner of the report to create a pdf file for printing or attaching to an email.

Click the “CSV”  button in the lower right hand corner of the report to export the report to a comma separated values file.

 You can also view Load Test Errors Report by clicking on the “Error Report Link”  [Error Report Link](#) . Copy the link and paste it on the Web Browser.

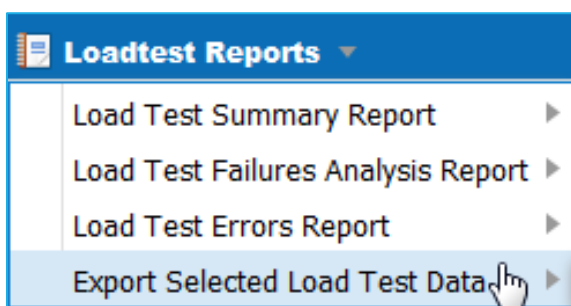


Once you open the link on your browser, you will see the Errors Report:



AppLoader		AL Demo Test Plan _ EXC (05 May 2015 05:01 PM)_ErrorsReport	
Scenario Name	iteration #	# of Failures	Error Message
Citrix XenApp Test scenario.xml	1	1	Scenario: Citrix Medical app Test scenario.xml, Block: -, Line: , Command: , Error: Citrix Medical app Test scenario.xml Failed at the step number 14 Find an image: Citrix Test scenario_img1.bmp - timeout after 30s, Type: execution type error: the test did not succeed
Citrix XenApp Test scenario.xml	1	4	Scenario: Citrix Medical app Test scenario.xml, Block: -, Line: , Command: , Error: Citrix Medical app Test scenario.xml Failed at the step number 4 Find an image: Citrix Test scenario_Medical app_img2.bmp - timeout after 90s, Type: execution type error: the test did not succeed
Citrix XenApp Test scenario.xml	2	1	Scenario: Citrix Log on Test scenario.xml, Block: -, Line: , Command: , Error: Citrix Log on Test scenario.xml Failed at the step number 3 Find an image: Citrix Test scenario_Citrix Receiver_img1.bmp - timeout after 60s, Type: execution type error: the test did not succeed
Citrix XenApp Test scenario.xml	2	1	Scenario: Citrix Medical app Test scenario.xml, Block: -, Line: , Command: , Error: Citrix Medical app Test scenario.xml Failed at the step number 14 Find an image: Citrix Test scenario_img1.bmp - timeout after 30s, Type: execution type error: the test did not succeed
Citrix XenApp Test scenario.xml	2	3	Scenario: Citrix Medical app Test scenario.xml, Block: -, Line: , Command: , Error: Citrix Medical app Test scenario.xml Failed at the step number 4 Find an image: Citrix Test scenario_Medical app_img2.bmp - timeout after 90s, Type: execution type error: the test did not succeed
Citrix XenApp Test scenario.xml	3	1	Scenario: Citrix Log on Test scenario.xml, Block: -, Line: , Command: , Error: Citrix Log on Test scenario.xml Failed at the step number 3 Find an image: Citrix Test scenario_Citrix Receiver_img1.bmp - timeout after 60s, Type: execution type error: the test did not succeed
Citrix XenApp Test scenario.xml	3	3	Scenario: Citrix Medical app Test scenario.xml, Block: -, Line: , Command: , Error: Citrix Medical app Test scenario.xml Failed at the step number 4 Find an image: Citrix Test scenario_Medical app_img2.bmp - timeout after 90s, Type: execution type error: the test did not succeed
Citrix XenApp Test scenario.xml	4	3	Scenario: Citrix Log on Test scenario.xml, Block: -, Line: , Command: , Error: Citrix Log on Test scenario.xml Failed at the step number 3 Find an image: Citrix Test scenario_Citrix Receiver_img1.bmp - timeout after 60s, Type: execution type error: the test did not succeed
Citrix XenApp Test scenario.xml	5	1	Scenario: Citrix Log on Test scenario.xml, Block: -, Line: , Command: , Error: Citrix Log on Test scenario.xml Failed at the step number 3 Find an image: Citrix Test scenario_Citrix Receiver_img1.bmp - timeout after 60s, Type: execution type error: the test did not succeed
Citrix XenApp Test scenario.xml	5	1	Scenario: Citrix Medical app Test scenario.xml, Block: -, Line: , Command: , Error: Citrix Medical app Test scenario.xml Failed at the step number 14 Find an image: Citrix Test scenario_img1.bmp - timeout after 30s, Type: execution type error: the test did not succeed

EXPORT SELECTED LOAD TEST DATA



You can export the Load Test data to an external file to view it outside of AppLoader Controller. AppLoader will export Load Test data to the specified .csv file.

Click on any one of the tests in the results window and click the “Export Selected Load Test Data” button to export raw test result data to a comma separated values file. Test data includes Response Time and Delay (difference



between Scenario “Reference Time” and actual “Response Time”) by rUser, per Scenario, Transaction and Component.

B	C	D	E	F	G	H	I	J	K	L	M
rUser	Scenario Name	Scenario/trx/Component	Type	Iteration	Total Iterations	Start Date	End Date	Execution Time	Delay Value	Delay Percentage	Error Message
ruser001	Audi.xml	Audi.xml	Scenario	1	5	3/22/2012 14:01	3/22/2012 14:03	93.4	-24.18	-20.56	
ruser001	Audi.xml	open browser	Transactio	1	5	3/22/2012 14:01	3/22/2012 14:01	2.58	2.58	0	
ruser001	Audi.xml	R8	Transactio	1	5	3/22/2012 14:01	3/22/2012 14:02	39.94	39.94	0	
ruser001	Audi.xml	A4	Transactio	1	5	3/22/2012 14:02	3/22/2012 14:03	47.2	47.2	0	
ruser002	Audi.xml	Audi.xml	Scenario	1	5	3/22/2012 14:01	3/22/2012 14:03	94.67	-22.91	-19.48	
ruser002	Audi.xml	open browser	Transactio	1	5	3/22/2012 14:01	3/22/2012 14:01	2.58	2.58	0	
ruser002	Audi.xml	R8	Transactio	1	5	3/22/2012 14:01	3/22/2012 14:02	40.77	40.77	0	
ruser002	Audi.xml	A4	Transactio	1	5	3/22/2012 14:02	3/22/2012 14:03	47.64	47.64	0	
ruser003	Audi.xml	Audi.xml	Scenario	1	5	3/22/2012 14:02	3/22/2012 14:04	92.55	-25.03	-21.29	
ruser003	Audi.xml	open browser	Transactio	1	5	3/22/2012 14:02	3/22/2012 14:02	2.58	2.58	0	
ruser003	Audi.xml	R8	Transactio	1	5	3/22/2012 14:02	3/22/2012 14:03	39	39	0	
ruser003	Audi.xml	A4	Transactio	1	5	3/22/2012 14:03	3/22/2012 14:04	47.25	47.25	0	
ruser004	Audi.xml	Audi.xml	Scenario	1	5	3/22/2012 14:02	3/22/2012 14:04	97.05	-20.53	-17.46	
ruser004	Audi.xml	open browser	Transactio	1	5	3/22/2012 14:02	3/22/2012 14:02	2.72	2.72	0	
ruser004	Audi.xml	R8	Transactio	1	5	3/22/2012 14:02	3/22/2012 14:03	43.22	43.22	0	
ruser004	Audi.xml	A4	Transactio	1	5	3/22/2012 14:03	3/22/2012 14:04	47.31	47.31	0	
ruser001	Audi.xml	Audi.xml	Scenario	2	5	3/22/2012 14:03	3/22/2012 14:05	92.17	-25.41	-21.61	
ruser001	Audi.xml	open browser	Transactio	2	5	3/22/2012 14:03	3/22/2012 14:03	2.63	2.63	0	
ruser001	Audi.xml	R8	Transactio	2	5	3/22/2012 14:03	3/22/2012 14:03	38.55	38.55	0	
ruser001	Audi.xml	A4	Transactio	2	5	3/22/2012 14:03	3/22/2012 14:05	47.28	47.28	0	
ruser005	Audi.xml	Audi.xml	Scenario	1	5	3/22/2012 14:03	3/22/2012 14:05	96.12	-21.46	-18.25	
ruser005	Audi.xml	open browser	Transactio	1	5	3/22/2012 14:03	3/22/2012 14:03	2.91	2.91	0	
ruser005	Audi.xml	R8	Transactio	1	5	3/22/2012 14:03	3/22/2012 14:04	42.17	42.17	0	
ruser005	Audi.xml	A4	Transactio	1	5	3/22/2012 14:04	3/22/2012 14:05	47.31	47.31	0	

rUser: the rUser that performed that instance in the Load Test

Scenario Name: The name of the Scenario that was performed

Scenario/trx/Component: This is the name of the subscenario, component or transaction within the Scenario that is being measured.

Type: Scenario, Transaction, or Component

Iteration: The iteration number for the rUser for this instance

Total Iterations: Total number of iterations that the rUser will perform

Start Date: The time this iteration began

End Date: The time this iteration ended

Execution Time: The amount of time it took to execute this iteration

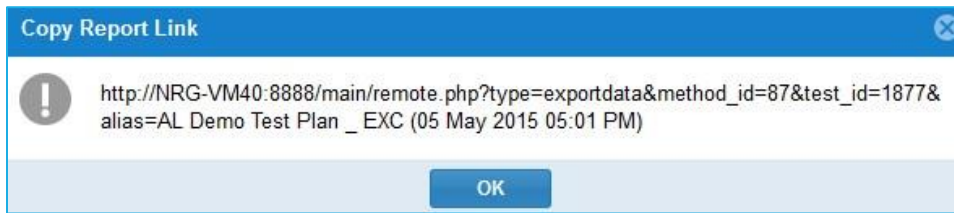
Delay Value: Difference between this iteration and the Reference Time that was set during playback in ScenarioBuilder

Delay Percentage: Percentile difference between this iteration and the Reference Time

Error Message: Error message that was displayed if this iteration failed



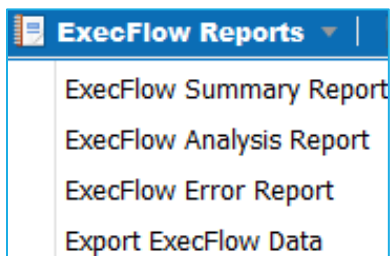
 You can also view export Load Test Data by clicking on the “Load Test Data Link”  [Load Test Data Link](#) .
Copy the link and paste it on the Web Browser.



EXECUTION FLOW REPORTS

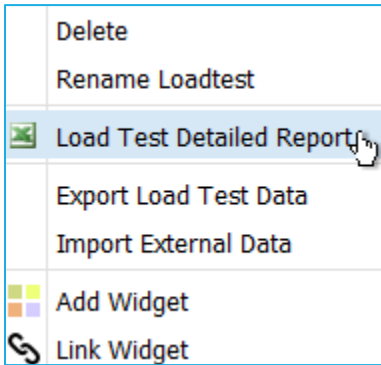
If you run an execution flow, AppLoader will give you another option to view Execution Flow Reports.

This section is similar to “Loadtest Reports” section.

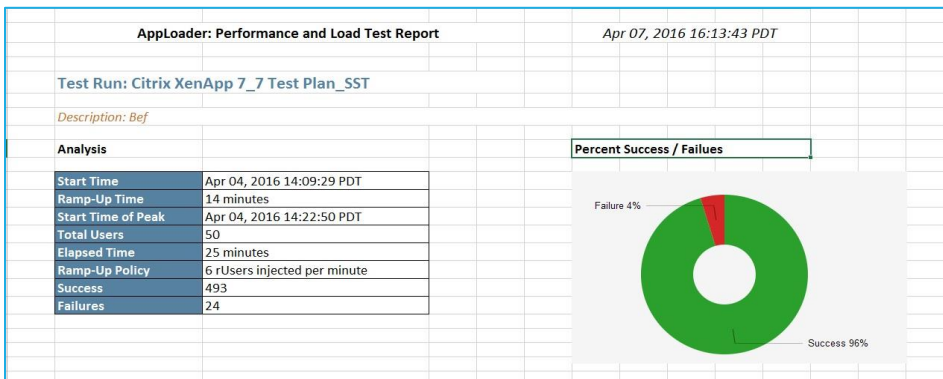


Load test detailed report

AppLoader give you the option to generate "Load Test Detailed Report" as an XML file by right clicking on the Load Test in the "Test Analysis" section.



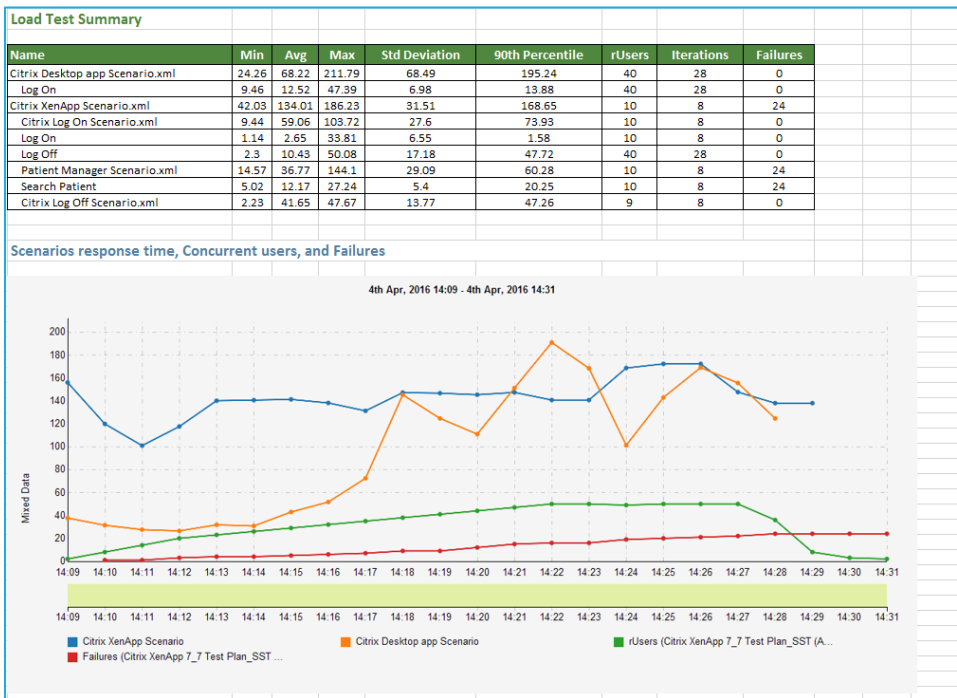
This report contains four worksheets: 1. Load Test Analysis 2. Load Test Summary 3. Load Test Errors & Alerts 4. Load Test Failures



User Guide: AppLoader

Load Test Failures

Scenario Name	Error Count	Error Message
Citrix XenApp Scenario_Patient Manager Scenario	24	Citrix XenApp Scenario: Patient Manager Scenario.xml Failed at the step number 8 Find image: Patient Manager Scenario_img4.bmp - timeout after 20s



Load Test Errors					
Scenario Name	Iterations	Failures	Error Message		
Citrix XenApp Scenario.xml	1	2	Scenario: Patient Manager Scenario.xml, Block: -, Line: -, Command: -, Error: Patient Manager Scenario.xml Failed at the step number 8 Find image: Patient Manager Scenario_img4.bmp - timeout after 20s, Type: execution type error: the test did not succeed		
Citrix XenApp Scenario.xml	2	2	Scenario: Patient Manager Scenario.xml, Block: -, Line: -, Command: -, Error: Patient Manager Scenario.xml Failed at the step number 8 Find image: Patient Manager Scenario_img4.bmp - timeout after 20s, Type: execution type error: the test did not succeed		
Citrix XenApp Scenario.xml	3	2	Scenario: Patient Manager Scenario.xml, Block: -, Line: -, Command: -, Error: Patient Manager Scenario.xml Failed at the step number 8 Find image: Patient Manager Scenario_img4.bmp - timeout after 20s, Type: execution type error: the test did not succeed		
Citrix XenApp Scenario.xml	4	4	Scenario: Patient Manager Scenario.xml, Block: -, Line: -, Command: -, Error: Patient Manager Scenario.xml Failed at the step number 8 Find image: Patient Manager Scenario_img4.bmp - timeout after 20s, Type: execution type error: the test did not succeed		
Citrix XenApp Scenario.xml	5	6	Scenario: Patient Manager Scenario.xml, Block: -, Line: -, Command: -, Error: Patient Manager Scenario.xml Failed at the step number 8 Find image: Patient Manager Scenario_img4.bmp - timeout after 20s, Type: execution type error: the test did not succeed		
Citrix XenApp Scenario.xml	6	3	Scenario: Patient Manager Scenario.xml, Block: -, Line: -, Command: -, Error: Patient Manager Scenario.xml Failed at the step number 8 Find image: Patient Manager Scenario_img4.bmp - timeout after 20s, Type: execution type error: the test did not succeed		
Citrix XenApp Scenario.xml	7	4	Scenario: Patient Manager Scenario.xml, Block: -, Line: -, Command: -, Error: Patient Manager Scenario.xml Failed at the step number 8 Find image: Patient Manager Scenario_img4.bmp - timeout after 20s, Type: execution type error: the test did not succeed		
Citrix XenApp Scenario.xml	8	1	Scenario: Patient Manager Scenario.xml, Block: -, Line: -, Command: -, Error: Patient Manager Scenario.xml Failed at the step number 8 Find image: Patient Manager Scenario_img4.bmp - timeout after 20s, Type: execution type error: the test did not succeed		
Load Test Alerts					
Type	Duration	Start Time	End Time	Monitor	Message
Warning	75 secs	Apr 04, 2016 14:15:09 PDT	Apr 04, 2016 14:16:24 PDT	cpusage (CitrixVM)	The Monitor cpusage has status Warning. This alert Began at 04/04/2016 14:15:09 PDT. Warning and the threshold is: 70 and current value is 70.15
Information	60 secs	Apr 04, 2016 14:24:09 PDT	Apr 04, 2016 14:25:09 PDT	cpusage (CitrixVM)	The Monitor cpusage has status Information. This alert Began at 04/04/2016 14:24:09 PDT. Information and the threshold is: 80 and current value is 63.78
Information	60 secs	Apr 04, 2016 14:29:09 PDT	Apr 04, 2016 14:30:09 PDT	cpusage (CitrixVM)	The Monitor cpusage has status Information. This alert Began at 04/04/2016 14:29:09 PDT. Information and the threshold is: 60 and current value is 65.07
Warning	secs	Apr 04, 2016 14:12:09 PDT	N/A	inactiveessions (CitrixVM)	The Monitor inactiveessions has status Warning. This alert Began at 04/04/2016 14:12:09 PDT. Warning and the threshold is: 40 and current value is 37
Warning	60 secs	Apr 04, 2016 14:21:09 PDT	Apr 04, 2016 14:22:09 PDT	potprivilegedtime (CitrixVM)	The Monitor potprivilegedtime has status Warning. This alert Began at 04/04/2016 14:21:09 PDT. Warning and the threshold is: 10 and current value is 8.96
Warning	secs	Apr 04, 2016 14:24:09 PDT	N/A	potprivilegedtime (CitrixVM)	The Monitor potprivilegedtime has status Warning. This alert Began at 04/04/2016 14:24:09 PDT. Warning and the threshold is: 10 and current value is 8.34
Error	60 secs	Apr 04, 2016 14:17:09 PDT	Apr 04, 2016 14:18:09 PDT	potusertime (CitrixVM)	The Monitor potusertime has status Error. This alert Began at 04/04/2016 14:17:09 PDT. Error and the threshold is: 20 and current value is 10.07
Error	60 secs	Apr 04, 2016 14:23:09 PDT	Apr 04, 2016 14:24:09 PDT	potusertime (CitrixVM)	The Monitor potusertime has status Error. This alert Began at 04/04/2016 14:23:09 PDT. Error and the threshold is: 20 and current value is 17.05
Error	secs	Apr 04, 2016 14:29:09 PDT	N/A	potusertime (CitrixVM)	The Monitor potusertime has status Error. This alert Began at 04/04/2016 14:29:09 PDT. Error and the threshold is: 20 and current value is 3.31

Go to current test

Click the “Go to Current Test”  button to go back to current test. The pie chart, stats and graphs for the current test will display on the “Test Analysis” page.

Analyze current test

Click the “Analyze Selected Test”  button. “Test Stats” for the test will open in a new window (displayed in the same format as [Runtime Information](#) form from “Real Time Results” page).

Export load test data

Click the “Export Load Test Data”  button to export raw test result data to a comma separated values file. Test data includes Response Time and Delay (difference between Scenario “Reference Time” and actual “Response Time”) by rUser, per Scenario, Transaction and Component.



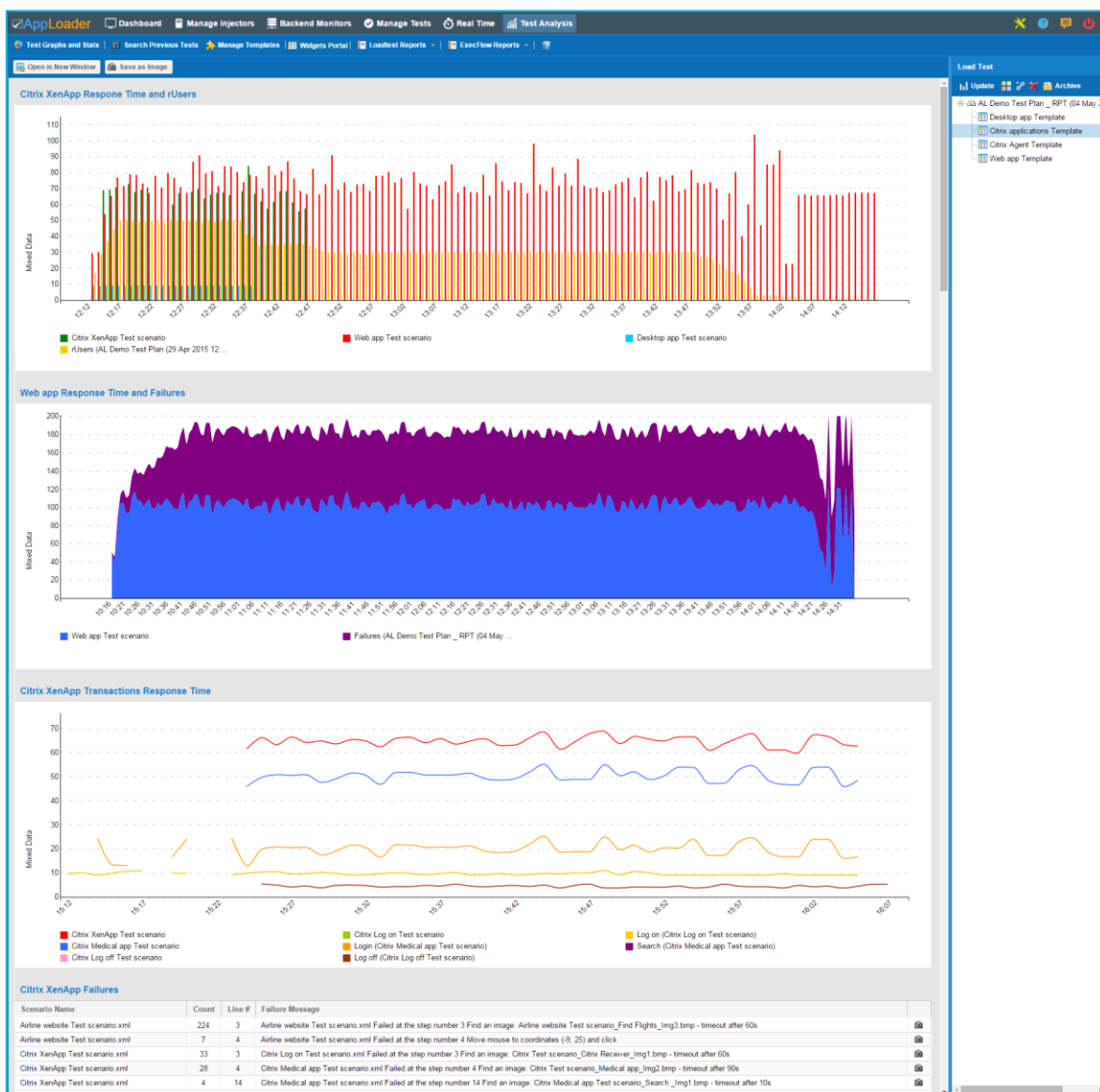
Manage templates

Click the “Manage Templates”  button to manage Widgets & Templates. Please refer to [Widgets & Templates](#) section for more information.

Widgets portal

Click the “Widgets Portal”  button to view Templates for multiple Load Tests.

Click on one of the Templates under the Load Test; You will see an image as below



To save the Template, click on “Save as Image”  and to open it in a new window, click on “Open in New Window” .

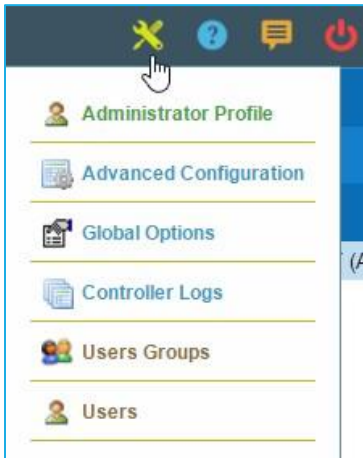
Reports

Please refer to [Reports](#) section for more information.



Settings

The AppLoader Settings  section includes options that let you modify user profile, set global options, view Controller Logs, manage users and groups in the AppLoader Controller.



User profile

By clicking on “User Profile”, you can access the user form.

Required Parameters	
Login:	admin
Full Name:	Administrator
User Group:	Administrators
Profile:	24/7
Email Address:	admin@example.com
Password:	
Password (*):	
User Timezone:	UTC
Active:	Yes

From this form, you can modify the current user information.



Advanced configuration

Click on “Advanced Configuration” to be able to view and modify the configuration.

Global options

Use “Global Options” to set up General/Debug options.

General Options

Business Hours Profile for Reports:
BusinessHours

Automatic Update Check:
Yes

Auto-send Script to Scenario Station:
On

Turn SNMP On/Off:
Off

Precision:
2

Create Log/Watch Dump Files:
No

Log/Watch Dump Files Location:
C:\Program Files (x86)\NrgGlobal\AppLoader\lwd\

Global Page Refresh Interval:
120

Show Setup Help Window:
No

Show Status Change Popups:
Yes

Scenario Loading Order:

Database Information:
AppLoader_8202

Action for Tabs:

Q-Server Host:
127.0.0.1

Q-Server Port:
9600

Debug Options

AppLoader Debug Level:
none

AppsWatch Debug Level:
none

System Watch Debug Level:
none

SNMP Watch Debug Level:
none

Log Watch Debug Level:
none

Task Watch Debug Level:
none

Node Watch Debug Level:
none

Extended Debug:
No

Submit

Reset

Controller logs

Here you can view all relevant log and configuration files.

Log File	Log Size	Configuration File	Config Size
Queue Server Manager	4.94 KB	Queue Server Configuration	557 B
Apache Web Server	2.94 KB	Apache Server Configuration	1.19 KB
Load Test Result Writer	1.5 KB		-
AppLoader Controller	6.26 KB		-
Controller Updater	228 B		-
License Server	1.23 KB		-



Users groups

Click on “Users Groups” to display the list of all groups that have been created. By default, AppLoader Controller has “Administrators” and “Users” groups.

+ Add New User Group Filter 		
Actions	Group Name	Description
	Administrators	Administrators for Chroniker
 	Users	



“Users” group is restricted from administrative privileges such as “License Report” , “License Request” , “Users Groups” and “Users”.

ADD NEW USER GROUP

From the “Settings” Top Menu, select “Users Groups”;

The “Users Groups” page opens in a new window;

+ Add New User Group		
Actions	Group Name	Description
	Administrators	Administrators for Chroniker
 	Users	

Click “Add New User Group”  button at the bottom of the page. “User Group Form” pops up;

User Group Form 

▲ Required Parameters

Group Name:

Description:

Submit

Close



Group Name: Specify a name for this User Group.

Description: Enter an optional description to help identify this User Group.

Click “Submit” to add the User Group.

EDIT USER GROUP

Edit a User Group by clicking the Edit icon  next to the User Group.

DELETE USER GROUP

Click the “Delete” icon  next to a User Group to delete the group.



Users

Click on “Users” to see what users are in the system. By default, AppLoader Controller has “Administrator” user account.

+ Add New User Filter 						
Actions	Login	User Name	User Group	Email	Profile	Timezone
	admin	Administrator	Administrators	admin@example.com	24/7	America/Los_A...

Users belonging to the Administrators group have full access to all AppLoader objects, reports and setup options. Users belonging to any other group have selected access based on the limitations of their group.

ADD NEW USER

From the “Settings” Top Menu, select “Users”;

The “Users” page opens in a new window;

+ Add New User Filter 						
Actions	Login	User Name	User Group	Email	Profile	Timezone
	admin	Administrator	Administrators	admin@example.com	24/7	America/Los_A...

Click “Add New User”  button at the bottom of the page. “User Form” pops up;

User Form ✕

▲ Required Parameters

Login:

Full Name:

User Group:

Profile:

Email Address:

Password:

Password (*):

User Timezone:

Active:

Submit

Close



Login: Specify a unique login for this user. Logins must begin with an alpha character and are case-sensitive.

Full Name: Specify the full name of the user.

User Group: Select from the dropdown list (Administrators – full access; all others – selected access)

Profile: Select a [Monitoring Window Profile](#) for this user. Alerts that occur during the selected Profile Window will be sent to this user.

Email Address: Provide the email address for this user.

Password: Enter a password for this user. Passwords are case-sensitive.

Password (*): Re-enter the password.

User Timezone: Set the timezone for the user. The default timezone is UTC.

Active: Select status of user account. Setting this parameter to “No” prevents user from logging into their account.

Click “Submit” to add the user.

EDIT USER

Edit a User account by clicking the Edit icon  next to the user.

DELETE USER

Click the “Delete” icon  next to a User to delete the account.



Getting help and support

Free POC!

Need a Proof of Concept? Our experts will help establish AppLoader's viability so that your organization, from stakeholders down to data entry clerks, is 100% behind your decision to go forward with AppLoader!

Support Team

If at any point during your trial you need more help, our technicians are waiting to help you! Don't hesitate to call our experts at +1 833-288-6624 (+1 833-AUTOMAI) or email Automai Support support@automai.com.

Help Center

For one-on-one help, create a support request at [Automai Help Center](#). A support engineer will follow up with you quickly. If you don't have an account, you can create one - just follow the prompts. When submitting your support request, please provide as much detail as possible. This will help us resolve your issue faster.

Online Help

If you can't find what you need in the documentation, you can ask questions, search for answers, exchange comments and suggestions on our [Help Center](#), find answers to your [Frequently Asked Questions](#) and watch [Training Videos](#).

Send us feedback

We love to hear your thoughts on AppLoader and your ideas for future features and improvements. Also, occasionally bugs do happen. If you find one, we'll do our best to fix it.

AppLoader navigation pane includes a ticket form for you to submit your problems, questions and suggestions about the product. Let us know what you think!

