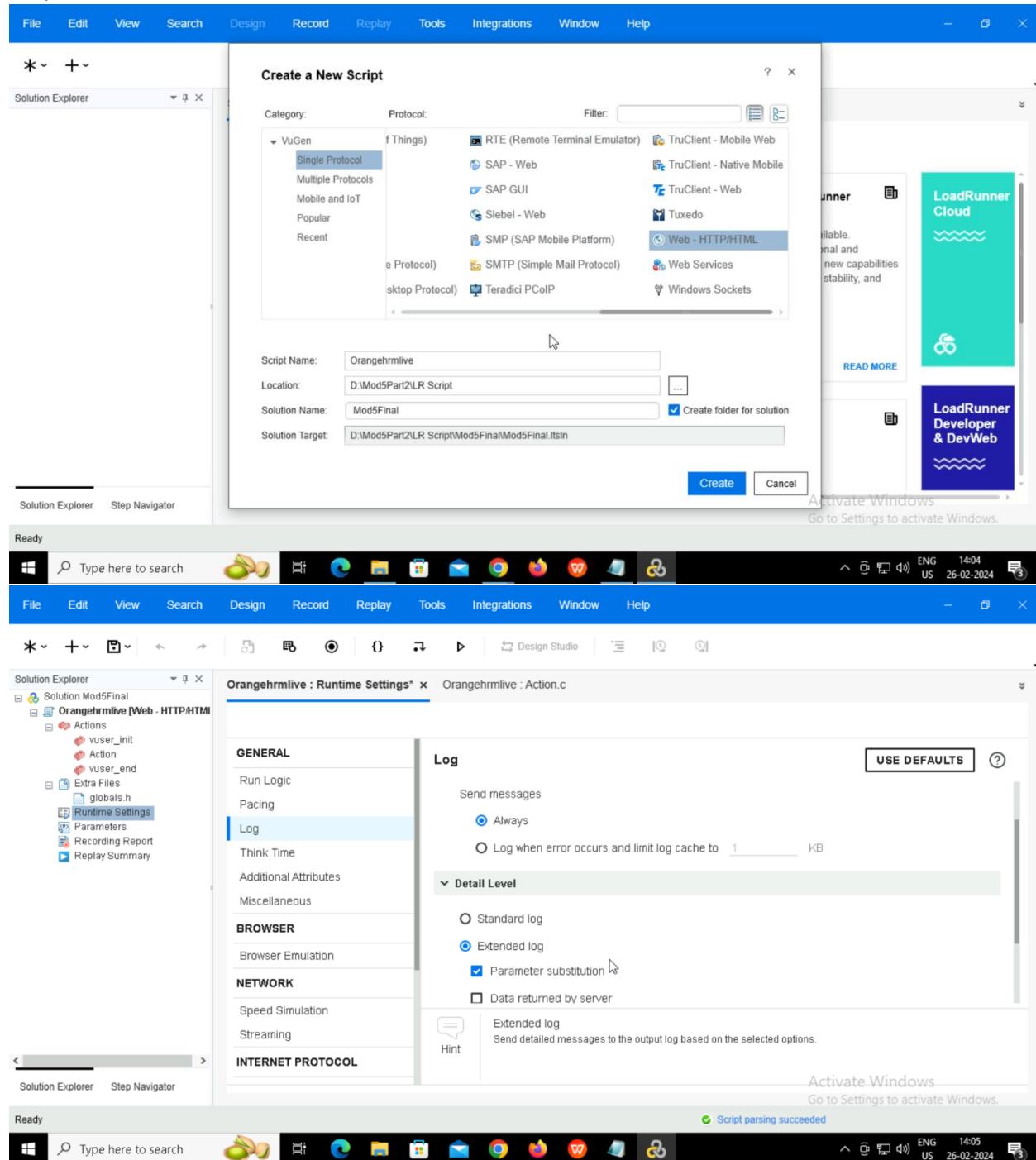


Mod5 Exam

Loadrunner

1. Open VuGen



The screenshot displays the Orangehrmlive software interface across three main sections: a top navigation bar, a left sidebar, and a central workspace.

Top Navigation Bar: Contains File, Edit, View, Search, Design, Record, Replay, Tools, Integrations, Window, and Help menus. A toolbar with various icons is positioned above the menu bar.

Left Sidebar (Solution Explorer): Shows the project structure under "Orangehrmlive [Web - HTTP/HTML]". Key items include Actions (vuser_init, Action, vuser_end), Extra Files (globals.h), Runtime Settings, Parameters, Recording Report, and Replay Summary. A "Ready" status message is displayed below the sidebar.

Central Workspace:

- Runtime Settings:** A tab titled "Orangehrmlive : Runtime Settings*" is open. It includes sections for BROWSER (Browser Emulation), NETWORK (Speed Simulation, Streaming), INTERNET PROTOCOL (Content Check, Proxy, Preferences), and DATA FORMAT EXTENSION (Chain Configuration, Advanced). A "Preferences" panel is expanded, showing options like "Enable image and text checks" and "Web Performance Graph Generation". A "Hint" section provides details about enabling image and text checks.
- Action.c Editor:** A tab titled "Orangehrmlive : Action.c" is open, displaying the following C-like pseudocode:

```
1 Action()
2 {
3     return 0;
4 }
```

A status bar at the bottom of the editor area indicates "Script parsing succeeded".

Bottom Taskbar: Features a search bar, pinned application icons (File Explorer, Edge, Mail, etc.), and system status indicators (language: ENG US, date: 26-02-2024, time: 14:05).

Recording

Solution Explorer Orangehrmlive [Web - HTTP/HTML]

Action selection: Record into action: * vuser_init

Recording mode: Record: Web Browser Application: Mozilla Firefox URL address: pensource-demo.orangehrmlive.com/web/index.php/auth/login

Settings: Start recording: Immediately In delayed mode Working directory: D:\Mod5Part2\LR Recording

Recording Options Start Recording Cancel

Activate Windows Go to Settings to activate Windows.

File Edit View Search Design Record Replay Tools Integrations Window Help

BROWSE

NETWOR

INTERNET

PREFEREN

DATA FOR

ADVANCED

Recording Options

General: Code Generation

Code generation process includes:

Correlations Scan Async Scan

Async Options...

Activate Windows Go to Settings to activate Windows.

File Edit View Search Design Record Replay Tools Integrations Window Help

Solution Explorer Step Navigator Ready

Type here to search

Recording Options

General: Code Generation

Code generation process includes:

Correlations Scan Async Scan

Async Options...

Activate Windows Go to Settings to activate Windows.

File Edit View Search Design Record Replay Tools Integrations Window Help

Solution Explorer Step Navigator Ready

Type here to search

Recording Options

General: Code Generation

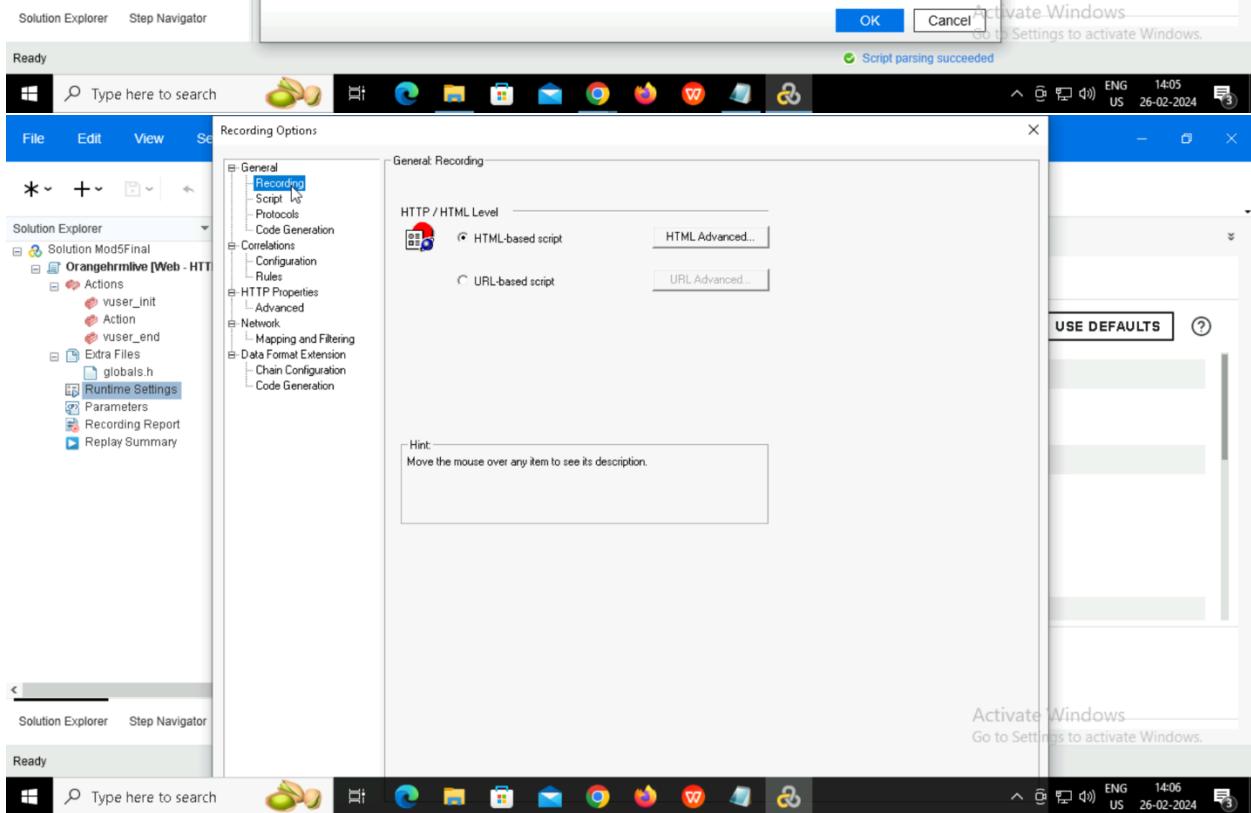
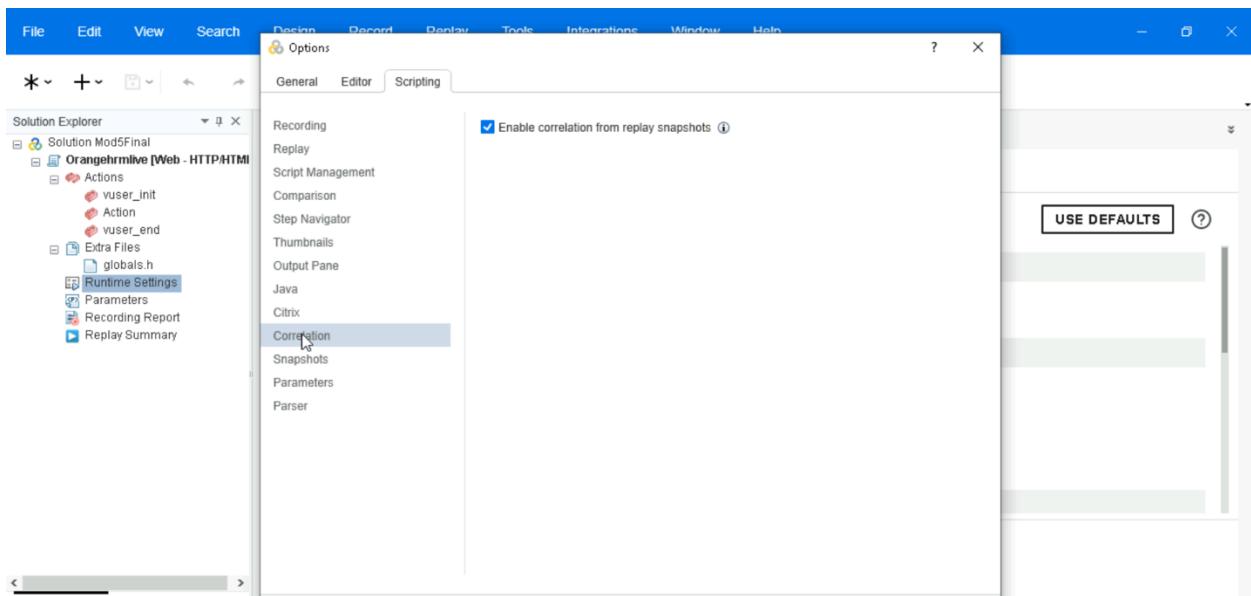
Code generation process includes:

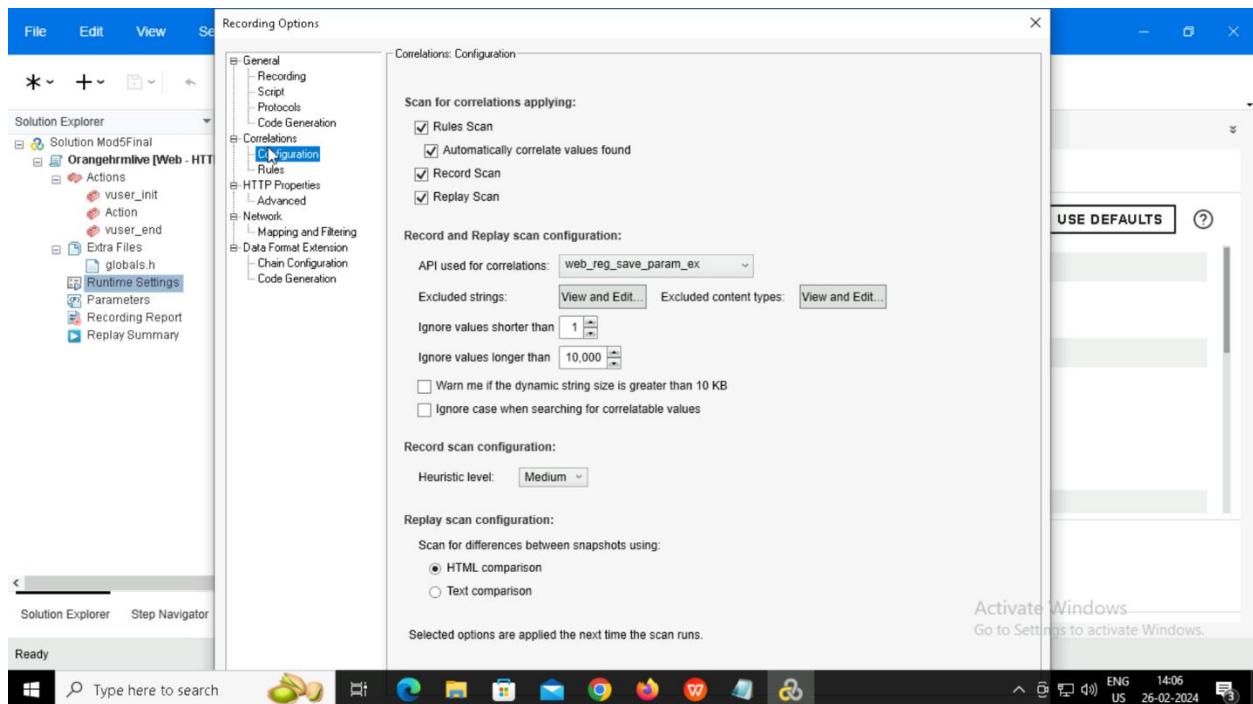
Correlations Scan Async Scan

Async Options...

Activate Windows Go to Settings to activate Windows.

File Edit View Search Design Record Replay Tools Integrations Window Help





Adding comments

The screenshot shows the OrangeHRM web application. On the left, a sidebar menu includes 'Admin', 'PIM', 'Leave', 'Time', 'Recruitment', 'My Info', and 'Performance' (which is selected). The main content area shows a 'Performance' section with tabs for 'Configure', 'Manage Reviews', 'My Trackers' (which is active), and 'Employee Trackers'. A 'Tracker for paul' is displayed with a recording event log. A modal dialog box is open, showing 'Recording events (1776)' and a timestamp '00:03:15'. It contains a text input field with the value 'logout' and 'OK' and 'Cancel' buttons. Below this, a 'Tracker Logs' section shows a log entry for 'good' with a thumbs-up icon. At the bottom, there is a message about activating Windows.

Solution Explorer Orangehrmlive : Action.c Orangehrmlive : Recording Report globals.h

1 correlation found Open Design Studio

TOTAL SIZE	SENT	RECEIVED	REQUESTS	CONNECTIONS	DATE & TIME	RECORDING DATE	DURATION
38.434 kB	4,634.81 kB	64	7		2/26/2024	00:03:22	

Headers 16 Headers were recorded More details

Hosts More details

Included (2)	Excluded (11)	
DOMAIN	REQUESTS	RECEIVED
<input checked="" type="checkbox"/> orangehrmlive.com (1 Hosts)	62	4634.8 kB
<input type="checkbox"/> mozilla.org (2 Hosts)	10	0.217 kB
<input type="checkbox"/> mozilla.com (3 Hosts)	4	1.101 kB
<input type="checkbox"/> lencr.org (1 Hosts)	4	0.02 kB

Activate Windows Go to Settings to activate Windows.

Ready

Type here to search Script parsing succeeded In 0 col 0

File Edit View Search Design Record Replay Tools Integrations Window Help

Solution Explorer Step Navigator

Solution Explorer Orangehrmlive : Replay Summary Orangehrmlive : vuser_end.c Orangehrmlive : vuser_init.c Orangehrmlive : Recording Report

Script Name: Orangehrmlive

Script failed
2 replay error(s) detected

Elapsed time: 00:00:06.583 hh:mm:ss.ms Started at: 26-02-2024 14:25:42 Ended at: 26-02-2024 14:25:49

Errors

Orangehrmlive	Replay	Errors: 2	Warnings: 1	Messages: 26
Action.c	Line 22	Action.c(22): Error -26546: Authentication required, please use "web_set_user", e.g. web_set_user("domain\user", "password", "host\port"); [MsgId: MERR-26546]		Action.c D:\Mod5Part2\LR ScriptM... Orangehrmlive
Action.c	Line 22	Action.c(22): Error -26629: HTTP Status-Code=401 (Unauthorized) for "https://opensource-demos.orangehrmlive.com/web/index.php/api/v2/buzzfeed?limit=5&offset=0&sortOrder=DESC&sortField=share.createdAt" [MsgId: MERR-26629]		Action.c D:\Mod5Part2\LR ScriptM... Orangehrmlive

Activate Windows Go to Settings to activate Windows.

File Edit View Search Design Record Replay Tools Integrations Window Help

Solution Explorer Step Navigator

Errors Output

Type here to search Script parsing succeeded In 22 col 1

File Edit View Search Design Record Replay Tools Integrations Window Help

Solution Explorer Step Navigator

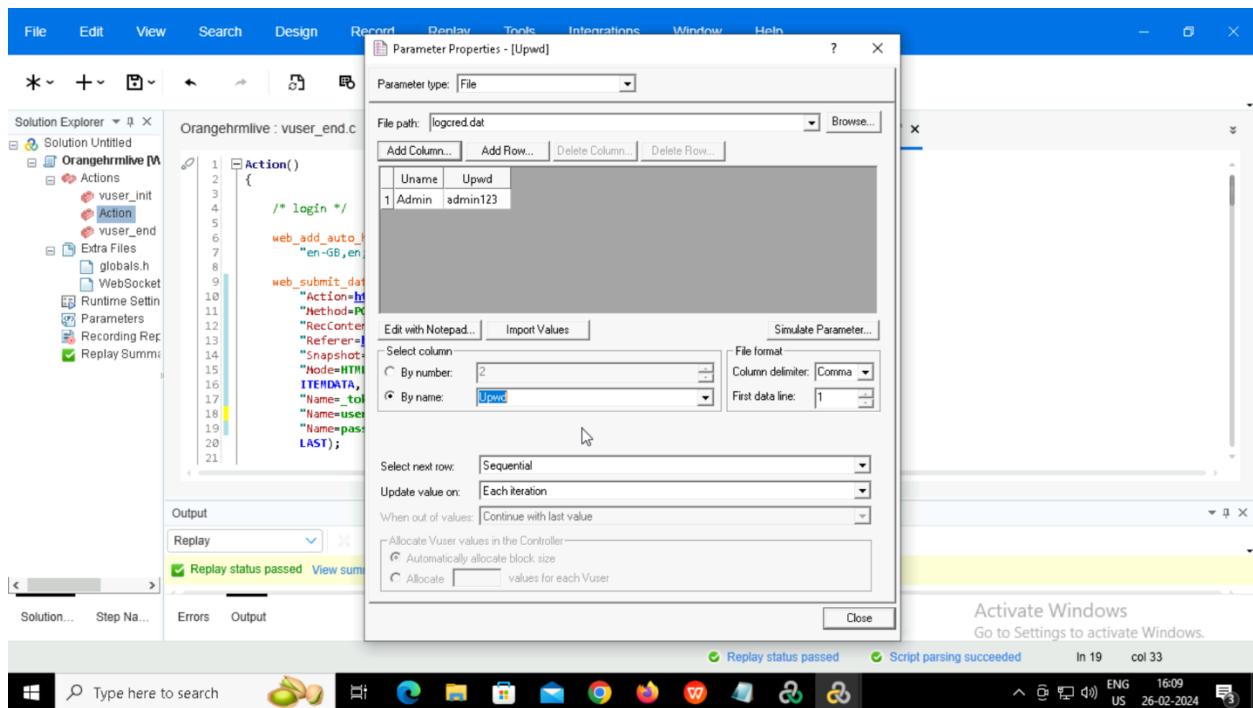
Parameterization

The screenshot shows the Orangehrmlive application interface with three windows open:

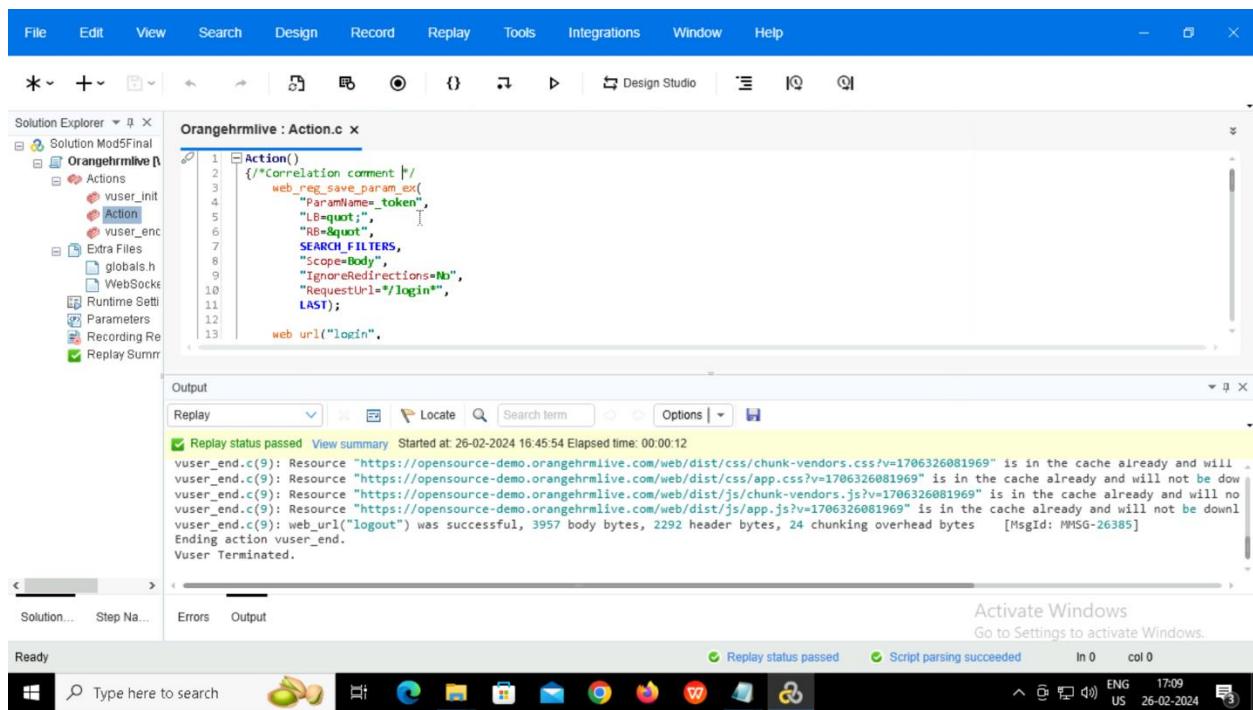
- Top Window:** Shows the code editor for `vuser_end.c`. A context menu is open over the line `web_submit_data("validate",`, showing a "Select or Create Parameter" dialog. The dialog has the following fields:
 - Parameter name: Uname
 - Parameter type: File
 - Original value: Admin
- Middle Window:** Shows the "Parameter Properties - [Uname]" dialog. It displays a table with one row:

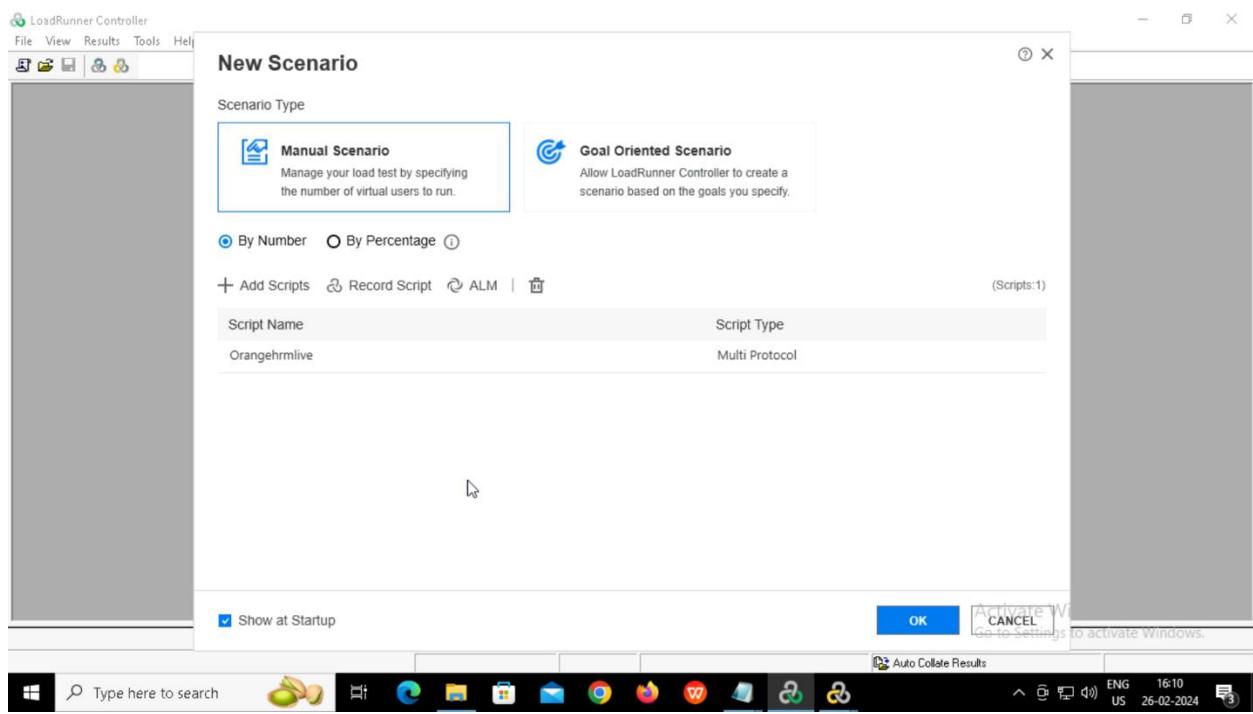
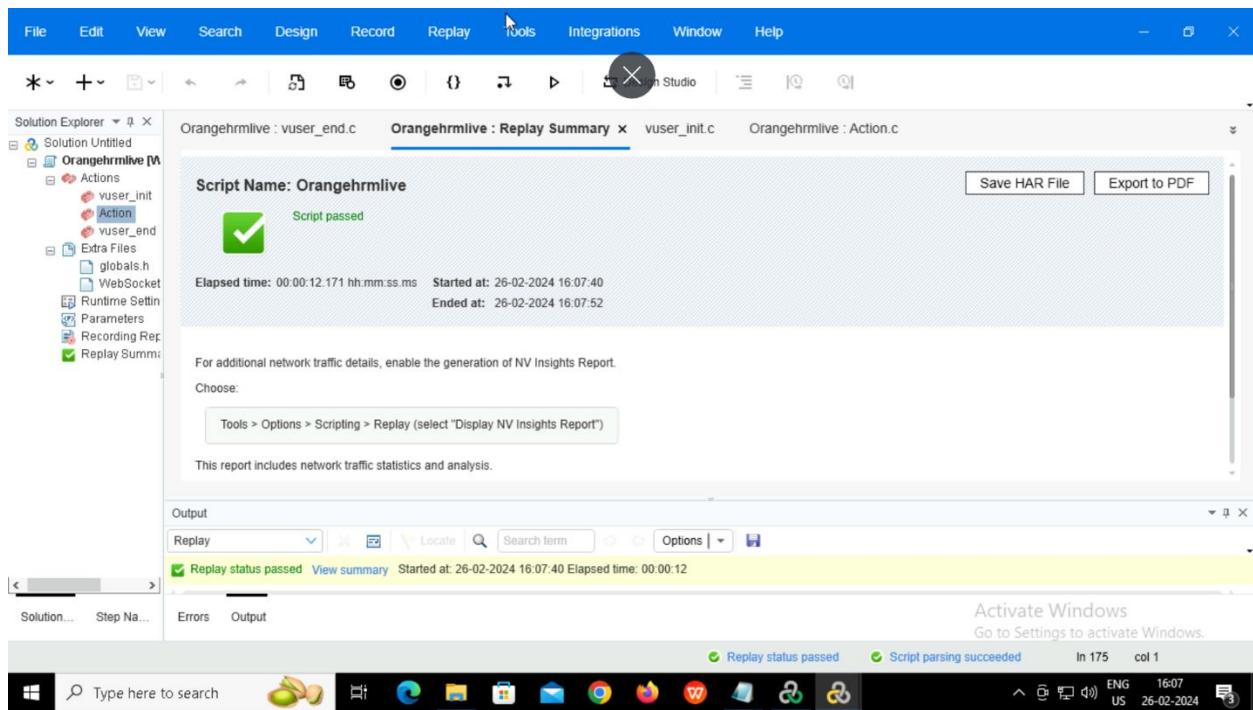
Uname
1 Admin

 Other settings in the dialog include:
 - File path: logred.dat
 - File format: Comma
 - Column delimiter: Comma
 - First data line: 1
 - Select column: By name: Uname
 - Select next row: Sequential
 - Update value on: Each iteration
 - When out of values: Continue with last value
- Bottom Window:** Shows the Windows taskbar with several icons and status information: Replay status passed, Script parsing succeeded, In 18 col 33, ENG US, 16:08, 26-02-2024.

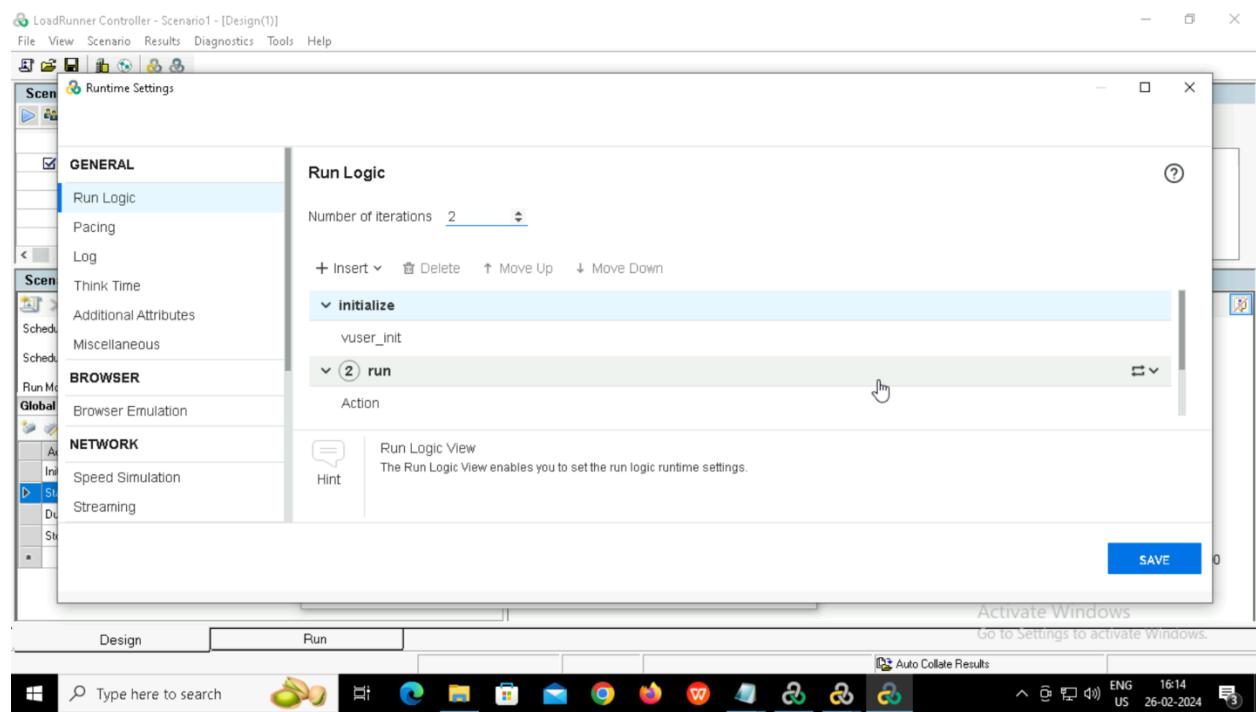


After correlation





Load test



The screenshot shows the LoadRunner Controller interface. On the left, the 'Scenario Groups' pane displays a group named 'orangehmhive' with one load generator ('localhost') running on 'localhost'. The 'Script Path' is set to 'D:\Mod5Part2\LR Script\Mod5Final\orangehmhive'. The 'Scenario Schedule' pane shows a 'Load test' schedule with a duration of 00:05:00. A context menu is open over the 'orangehmhive' entry in the scenario group list, with the 'Run' option selected. The 'Service Level Agreement' panel on the right shows a graph with a single vertical red bar at 00:05:00.

The screenshot shows the LoadRunner Controller interface with the following details:

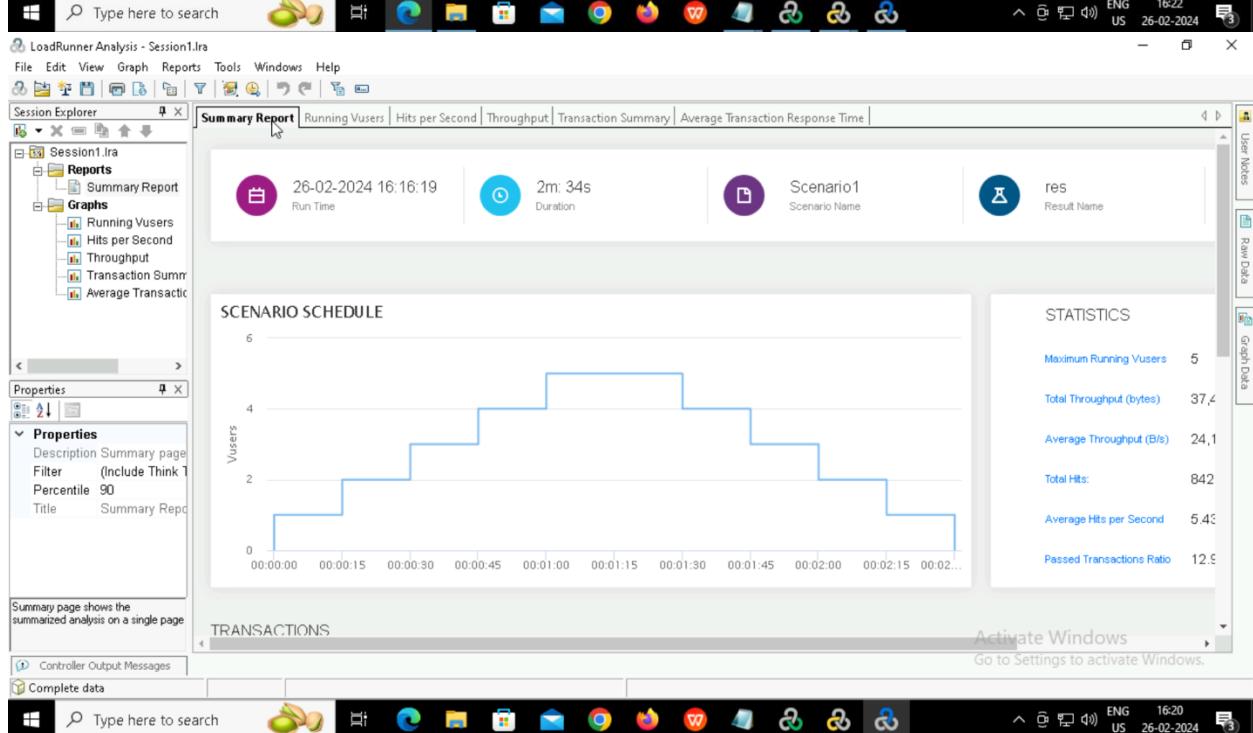
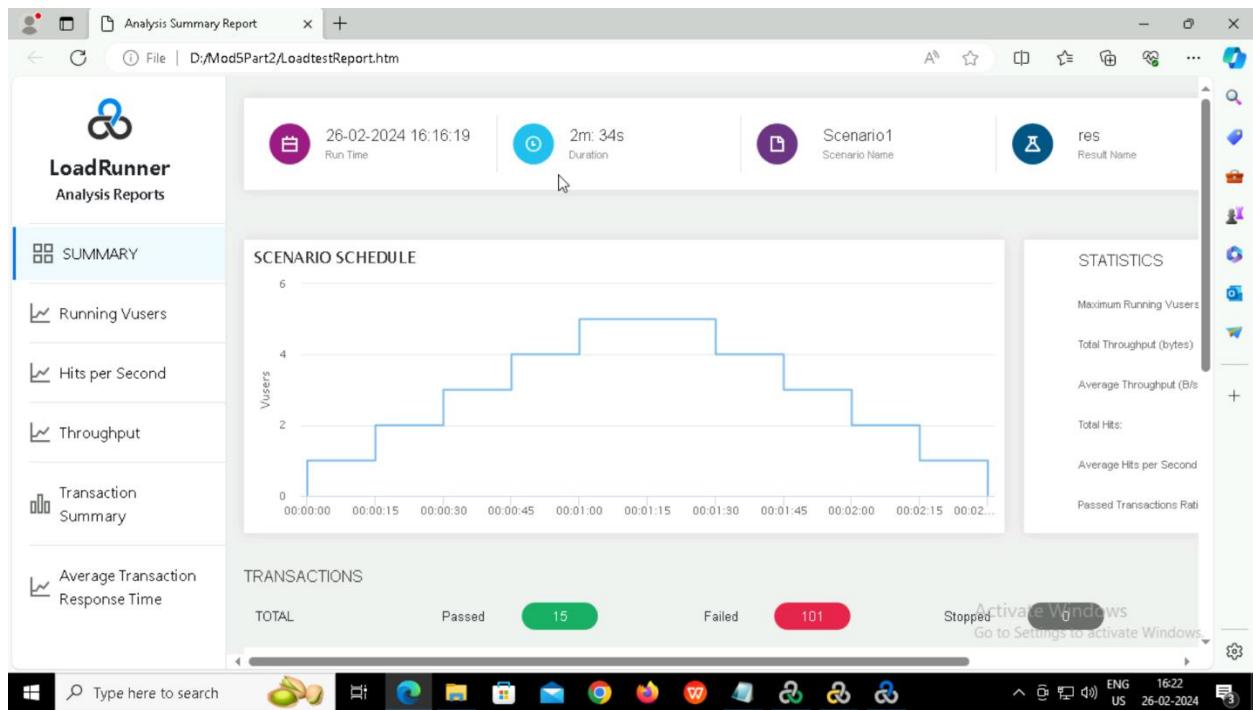
- Scenario Groups:** A table showing one group named "orangehmive" with a script path of "D:\Mod5Part2\LR Script\Mod5Final\Orangehmive". The quantity is set to 5 and the load generator is "localhost".
- Service Level Agreement:** A panel indicating no SLA rules are defined, with buttons for New, Details, Edit, Delete, and Advanced.
- Scenario Schedule:** A panel for a schedule named "Load test". It includes fields for "Schedule by" (Scenario selected) and "Run Mode" (Real-world schedule selected). The "Global Schedule" section shows a step function graph of user load over time:

Time	Users
00:00:00	1
00:00:05	2
00:00:10	4
00:00:15	5
00:00:20	2
00:00:25	1
- Bottom Navigation:** Buttons for Design (selected), Run, and Auto Collate Results. A search bar at the bottom left contains the text "Type here to search". The taskbar at the bottom right shows system icons and the date/time as 16:16 US 26-02-2024.

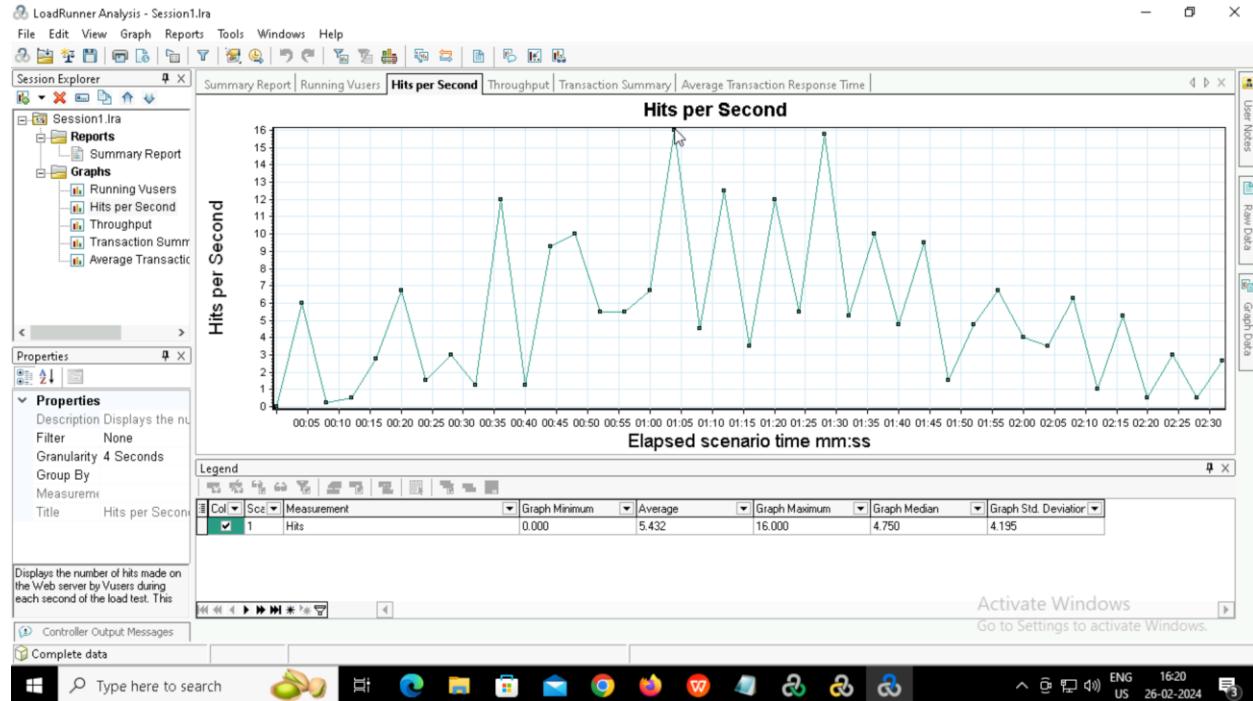
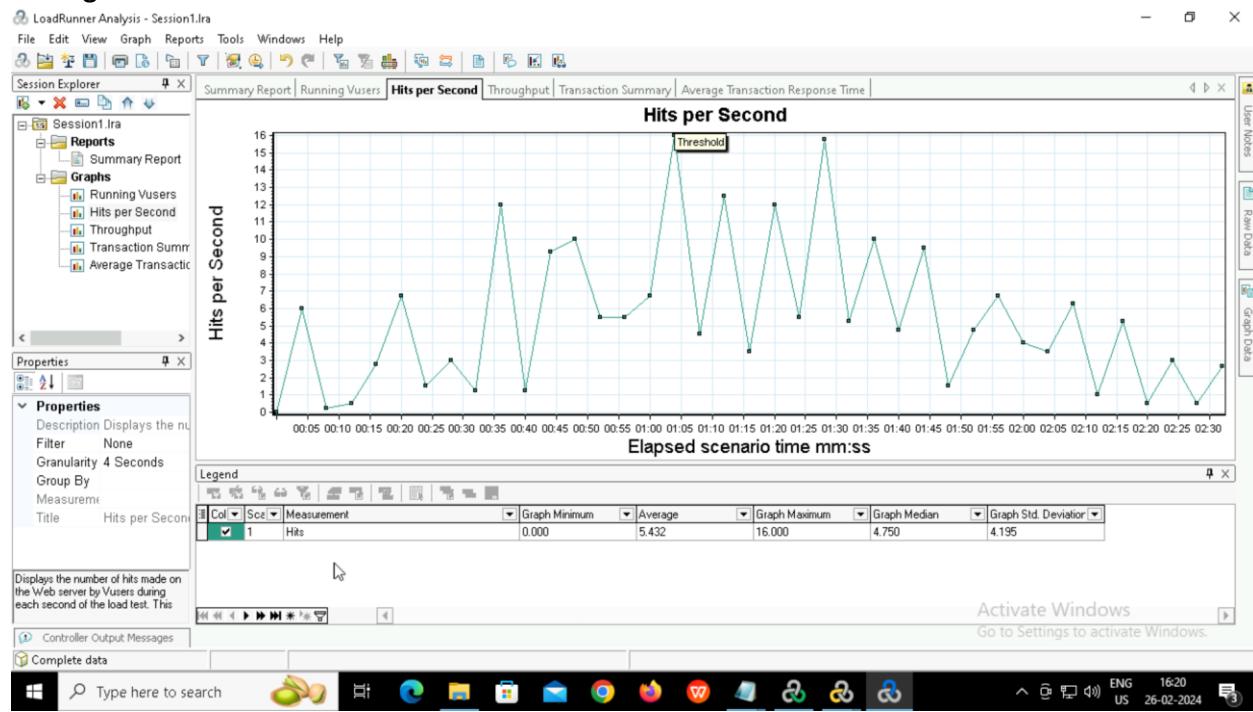
The screenshot shows the LoadRunner Controller interface for a scenario named "Orngehmive". The "Scenario Groups" table lists one group with 5 users. The "Scenario Status" panel shows the test is "Down" with 0 running users, 0 errors, and 0 hits/second. The "Graphs" section displays four real-time performance metrics: "Running Vusers - Whole Load Test", "Trans Response Time - Whole...", "Hits per Second - Whole Load Test", and "Throughput - Whole Load Test". Each graph has a small preview icon.

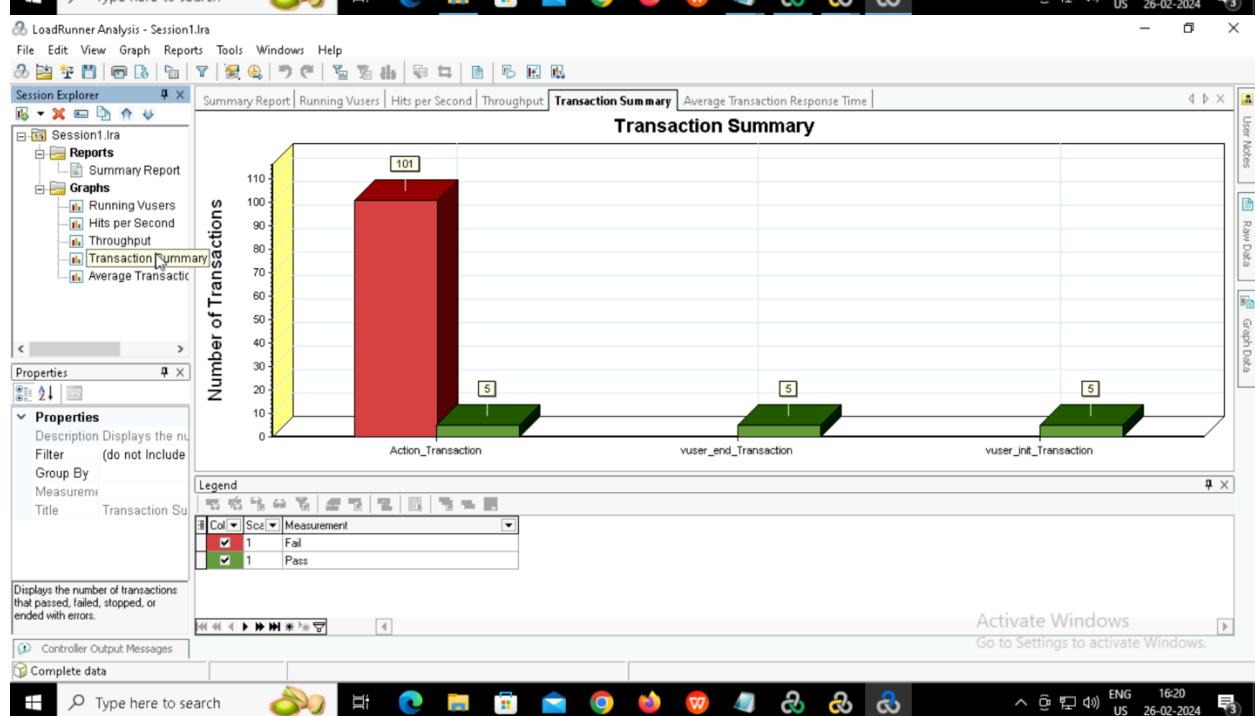
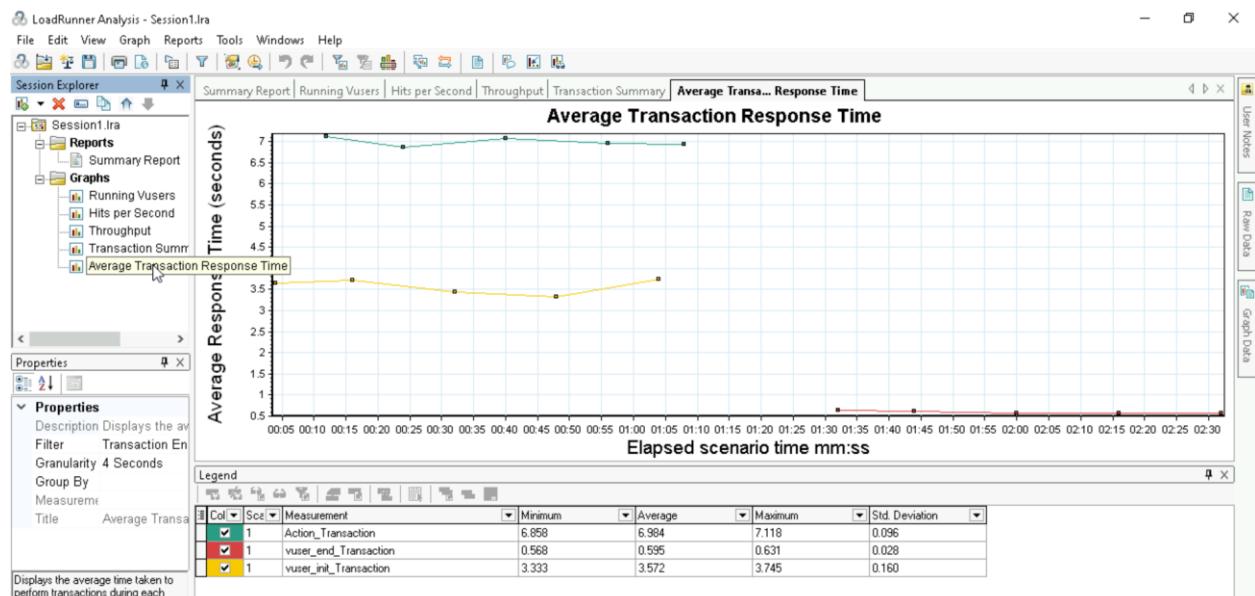
The screenshot shows the LoadRunner Controller interface with the following details:

- Scenario Groups:** A table showing the status of various scenarios. One scenario, "Orangehmive", is listed as "Running".
- Scenario Status:** A summary of current test metrics:
 - Running Vusers: 0
 - Elapsed Time: 00:02:34 (hh:mm:ss)
 - Hits/Second: 1.40 (last 60 sec)
 - Passed Transactions: 14
 - Failed Transactions: 98
 - Errors: 196
 - Service Virtualization: OFF
- Graphs:** Four line charts are displayed:
 - Running Vusers - Whole Load Test:** Shows the number of running virtual users over time. The count starts at 0, rises to a peak of approximately 15, and then fluctuates between 5 and 10.
 - Trans Response Time - Whole...**: Shows transaction response times. The values remain relatively constant around 100 ms.
 - Hits per Second - Whole Load Test:** Shows hits per second. The rate fluctuates between 0 and 2 hits per second.
 - Throughput - Whole Load Test:** Shows throughput. The throughput fluctuates between 0 and 100 transactions per second.
- Design & Run:** Buttons for navigating between design and run phases of the test.



Adding annotation





Stress test

LoadRunner Controller - Scenario1 - [Design()]

File View Scenario Results Diagnostics Tools Help

Scenario Groups

Group Name	Script Path	Quantity	Load Generators
<input checked="" type="checkbox"/> orangehmlive	D:\Mod5Part2\LR Script\Mod5Final\Orangehmlive	8	localhost

Service Level Agreement

New Details Edit Delete Advanced

Service Level Agreement:
Currently no SLA rules are defined for the load test.
Click the New button to define SLA criteria for your load test.

Scenario Schedule

Schedule Name: Load test

Schedule by: Scenario Group

Run Mode: Real-world schedule Basic schedule

Global Schedule

Action Properties
Initialize Initialize each Vuser just before it runs
Start Vusers Start 8 Vusers: 1 every 00:00:15 (HH:MM:SS)
Duration Run for 00:02:00 (HH:MM:SS)
Stop Vusers Stop all Vusers: 1 every 00:00:15 (HH:MM:SS)

Legend: Global Schedule

Activate Windows Go to Settings to activate Windows.

Design Run

Auto Collate Results ENG US 16:24 26-02-2024

LoadRunner Controller - Scenario1 - [Design()]

File View Scenario Results Diagnostics Tools Help

Scenario Groups

Group Name	Script Path	Quantity	Load Generators
<input checked="" type="checkbox"/> orangehmlive	D:\Mod5Part2\LR Script\Mod5Final\Orangehmlive	8	localhost

Service Level Agreement

New Details Edit Delete Advanced

Service Level Agreement:
Test your load test.

Scenario Schedule

Schedule Name: Schedule 1

Schedule by: Scenario Group

Run Mode: Real-world schedule

Global Schedule

Action Properties
Initialize Initialize each Vuser just before it runs
Start Vusers Start 8 Vusers: 1 every 00:00:15 (HH:MM:SS)
Duration Run for 00:02:00 (HH:MM:SS)
Stop Vusers Stop all Vusers: 1 every 00:00:15 (HH:MM:SS)

Vusers(8)

ID	Status	Script	Load Generator Elapsed Time
1	Down	Orangehmlive	localhost
2	Down	Orangehmlive	localhost
3	Down	Orangehmlive	localhost
4	Down	Orangehmlive	localhost
5	Down	Orangehmlive	localhost
6	Down	Orangehmlive	localhost
7	Down	Orangehmlive	localhost
8	Down	Orangehmlive	localhost

Legend: Global Schedule

Activate Windows Go to Settings to activate Windows.

Design Run

Auto Collate Results ENG US 16:24 26-02-2024

LoadRunner Controller - Scenario1 - [Design(1)]

File View Scenario Results Diagnostics Tools Help

Scenario Groups

Group Name	Script Path	Quantity	Load Generators
orangehrmlive	D:\Mod5Part2\LR Script\Mod5Final\Orangehrmlive	8	localhost

Service Level Agreement

New Details Edit Delete Advanced

Service Level Agreement
Currently no SLA rules are defined for the load test.
Click the New button to define SLA criteria for your load test.

Scenario Schedule

Schedule Name: Schedule 1

Schedule by: Scenario Group

Run Mode: Real-world schedule Basic schedule

Global Schedule

Action Properties

- Initialize Initialize each Vuser just before it runs
- Start Vusers Start 8 Vusers: 1 every 00:00:15 (HH:MM:SS)
- Duration Run for 00:02:00 (HH:MM:SS)
- Stop Vusers Stop all Vusers: 1 every 00:00:15 (HH:MM:SS)

Legend: Global Schedule

Activate Windows
Go to Settings to activate Windows.

Design Run

LoadRunner Controller - Scenario1 - [Design(1)]

File View Scenario Results Diagnostics Tools Help

Runtime Settings

GENERAL

- Run Logic
- Pacing
- Log
- Think Time
- Additional Attributes
- Miscellaneous

BROWSER

- Browser Emulation

NETWORK

- Speed Simulation
- Streaming

Run Logic

Number of iterations: 5

+ Insert - Delete ↑ Move Up ↓ Move Down

initialize

vuser_init

run

Action

Hint: Run Logic View
The Run Logic View enables you to set the run logic runtime settings.

SAVE

Activate Windows
Go to Settings to activate Windows.

Design Run

LoadRunner Controller - Scenario1 - [Run]

File View Scenario Results Diagnostics Tools Help

Scenario Groups

Group Name	Down	Pending	Init	Ready	Run	Rendez	Passed	Failed	Error	Gradual	Exiting	Exiting	Stopped
1	8												
Orngehmlive		8											

Start Scenario
Stop
Reset
Vusers...
Run/Stop Vusers...

Scenario Status	Down
Running Vusers	0
Elapsed Time	00:00:00 (hh:mm:ss)
Hits/Second	0.00 (last 60 sec)
Passed Transactions	0
Failed Transactions	0
Errors	0
Service Virtualization	OFF

Graphs

With Data All

(Runtime Graphs User Defined Data Points Vusers with Errors Error Statistics

(Transaction Graphs Trans/Sec (Failed,Stopped) Trans/Sec (Passed) by Location Trans/Sec (Passed)

Running Vusers - Whole Load Test

Trans Response Time - Whole...

Hits per Second - Whole Load Test

Throughput - Whole Load Test

Activate Windows Go to Settings to activate Windows.

Design Run

Type here to search

LoadRunner Controller - Scenario4 - [Run]

File View Scenario Results Diagnostics Tools Help

Scenario Groups

Group Name	Down	Pending	Init	Ready	Run	Rendez	Passed	Failed	Error	Gradual	Exiting	Exiting	Stopped
1							3					5	5
Orngehmlive							3						

Start Scenario
Stop
Reset
Vusers...
Run/Stop Vusers...

Scenario Status

Scenario Status	Down
Running Vusers	0
Elapsed Time	00:04:47 (hh:mm:ss)
Hits/Second	2.67 (last 60 sec)
Passed Transactions	10
Failed Transactions	397
Errors	0
Service Virtualization	OFF

Graphs

With Data All

(Runtime Graphs User Defined Data Points Vusers with Errors Error Statistics

(Transaction Graphs Trans/Sec (Failed,Stopped) Trans/Sec (Passed) by Location Trans/Sec (Passed)

Running Vusers - Whole Load Test

Trans Response Time - Whole...

Hits per Second - Whole Load Test

Throughput - Whole Load Test

Activate Windows Go to Settings to activate Windows.

Design Run

Type here to search

