


## INFO 6255: Quality Assurance

### Steps to install UFT

<https://www.microfocus.com/en-us/products/uft-one/free-trial>



## Start Your Free 30-Day Trial of UFT One Now

NO CREDIT CARD REQUIRED

- Accelerate test automation**  
Accelerate test automation with one intelligent solution for web, mobile, API, RPA, and enterprise apps.
- Simplify end-to-end testing**  
Simplify the end-to-end testing of 200+ enterprise apps, technologies, and environments with a single tool.
- Increase test coverage – UI to API**  
Test both front-end functionality and back-end

### 1. Create account

Already have an account? [Log in](#) (Skip step 1 & 2)

\* Required field

First name\*  Last name\*

Country / Area\*

Phone\*


Company name\*

Job Title (optional)

Zip/Postal code\*

Create your login credentials

[Business or student email\\*](#)



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- Increase test coverage – UI to API**  
Test both front-end functionality and back-end

### 1. Create account

✓

### 2. Verify email

We've emailed a verification link to [aamrah.a@northeastern.edu](mailto:aamrah.a@northeastern.edu). The code will expire in 24 hours.

Didn't receive the email? Check your spam folder for an email [aamrah.a@northeastern.edu](mailto:aamrah.a@northeastern.edu)

[Request new mail](#)

### 3. Log in

### 4. Submit request

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Welcome, AAMRAH!  
You're one step closer to your free trial.

Confirm Email Address

We require you to validate your email address before accessing Micro Focus Trial. Please click the "Confirm Email Address" button above to complete this process.

If required, log in using your username and password. Your email address will then be validated and you will be returned to Micro Focus Trial.



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1. Create account ✓

2. Verify email ✓

3. Log in ✓

4. Submit request

Request Trial

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My Micro Focus is a centralized hub for all things Micro Focus. Choose a username and password to get access to your own personalized dashboard now.

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Trial Order Request is Fulfilled

Today at 3:27 PM



MFI Trials and Evaluations <trialsandevalnotifications@microfocus.com>

To: Aamrah Aamrah; Cc: trialsandevalnotifications@microfocus.com

Dear AAMRAH AAMRAH,

Thank you for requesting a trial version of Micro Focus UFT One Evaluation Sub SW E-LTU. Our goal is to make your trial as easy as possible.

[Sign in](#) now to get started using the username you selected when requesting your trial.

If you have any questions during your trial, please don't hesitate to [contact us](#)

If you encounter issues, please sign in to your account access manager account and try to access the trial [link](#)

We hope you enjoy your trial!

Sincerely,  
Your Micro Focus Team

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View Entitlements

Account Name: AAMRAH\_AAMRAH\_Personal\_Account

AllProductProduct NumberProduct NameOrder NumberSoftware Serial NumberContract NameAdvanced

TO-84337

X

Search

Environment Type: EVALUATION

☒ Supported Entitlements ☐ Available for Activation ☐ Available for Update ☐ Unsupported Entitlements

To activate more than one entitlement, click on "Available for Activation".

Expand AllCollapse All

<<<1>>>

1 item(s), 1 page(s)

1Go

Product Name	Order Number	Serial Number	Total Quantity	Available Quantity	Unit of Measure	Action
<div>UFT One Evaluation Sub SW E-LTU</div> <div>Product#: EV-AA193</div> <div>Expires on: 02/27/2023</div> <div>Environment Type: PRODUCTION</div> <div>More details</div>	TO-84337	2023012820265319	1	1	User	<div>Activate</div> <div>Get Software</div>

<<<1>>>1 item(s), 1 page(s)1Go

Home Entitlements Downloads Activations Rehosts Identity Access Management Reports

View Entitlement Details

Product Id:1040258854

Product:UFT One (Unified Functional Testing)

Product Number:EV-AA193

Product Name:UFT One Evaluation Sub SW E-LTU

Description:UFT One Evaluation Sub SW E-LTU

Serial Number#:2023012820265319

Order Number:TO-84337

Entitlement ID:303406707

Entitlement Type:Trade

Purchase Order Number:

Environment Type:PRODUCTION

Entitled Quantity:1

Activated Quantity:0

Available Quantity:1

Support Quantity:1

Version	Activated Quantity	Unit of Measure	Action
2022	0	User	<div>Activate</div> <div>Download</div>

Click on Downloads

Extract the zip file and run the setup

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Simplify the end-to-end testing of 200+ enterprise apps, technologies, and environments with a single tool.
- ✓ **Increase test coverage – UI to API**  
Test both the front-end functions and the back-end

1. Create account



2. Verify email



3. Log in



4. Submit request

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My Trials

Support

My Profile


Quick Links


Logout

## My Products

beta

Manage all of your OpenText web trials.





UFT One

Trial Started on **Mon Sep 23 2024** | Expires on **Thu Oct 24 2024**


Status: **Fulfilled**

Launch

Recommended Free Trials

PRODUCT

45,397




**UFT Developer**  
DevOps Cloud (ADM)

UFT Developer is a shift-left functional test

PRODUCT

39




**LeanFT (UFT Developer)**  
DevOps Cloud (ADM)

A powerful, lightweight testing solution for

PRODUCT

POPULAR

377,971



**LoadRunner Professional**  
DevOps Cloud (ADM)

The premium, market leading performance

[View all](#)

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Keep track of your trials by going to **My Micro Focus** at any time.

My Micro Focus is a centralized hub for all things Micro Focus. Choose a username and password to get access to your own personalized dashboard now.

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Welcome to Micro Focus! How can I help you?

Account Name: Jaya\_Kishnani\_Personal\_Account

Product:UFT One

Product Name:UFT One Evaluation Sub SW E-LTU

Version:24.2

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	Description	Category	Platform	Language	File Type	Media Version	Created Date	Action
<input checked="" type="checkbox"/>	UFT One 24.2 DVD Electronic Release For Windows	UFT Seat 24.2	Windows	---	Software	24.2	2024-04-08	More DetailsDownload
<input type="checkbox"/>	UFT One 24.2 DVD Core Electronic Release For Windows	UFT Seat 24.2	Windows	---	Software	24.2	2024-04-08	More DetailsDownload
<input type="checkbox"/>	UFT One 24.2 Package For the Web Bundle	UFT Seat 24.2	Windows	---	Software	24.2	2024-04-08	More DetailsDownload



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HomeEntitlementsDownloadsActivationsRehostsIdentity Access ManagementReports

Software Downloads

Account Name: Jaya\_Kishnani\_Personal\_Account

Product:UFT One

Product Name:UFT One Evaluation Sub SW E-LTU

Version:24.2

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	Description	Category	Platform	Language	File Type	Media Version	Created Date	Action
<input checked="" type="checkbox"/>	UFT One 24.2 DVD Electronic Release For Windows	UFT Seat 24.2	Windows	--	Software	24.2	2024-04-08	More DetailsDownload

Click on Downloads

Account Name: Jaya\_Kishnani\_Personal\_Account

Product:UFT One

Product Name:UFT One Evaluation Sub SW E-LTU

Version:24.2

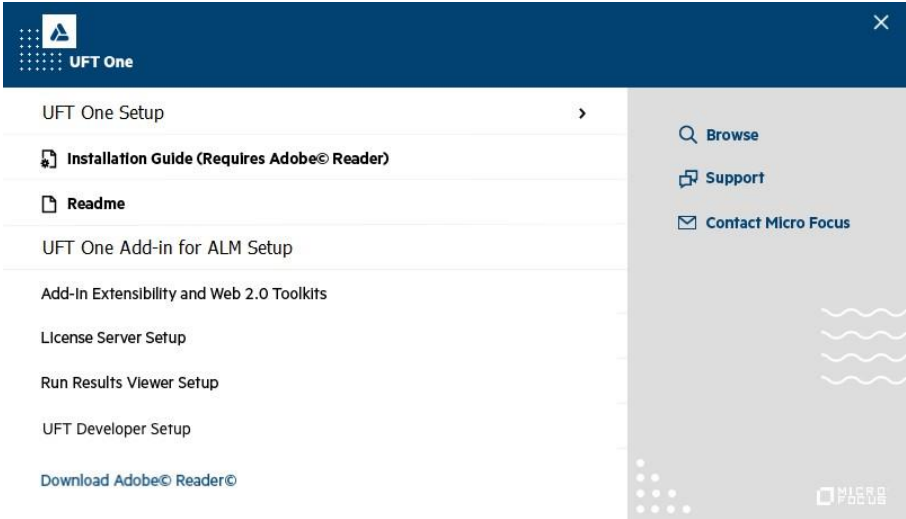
Export Media ReportReset

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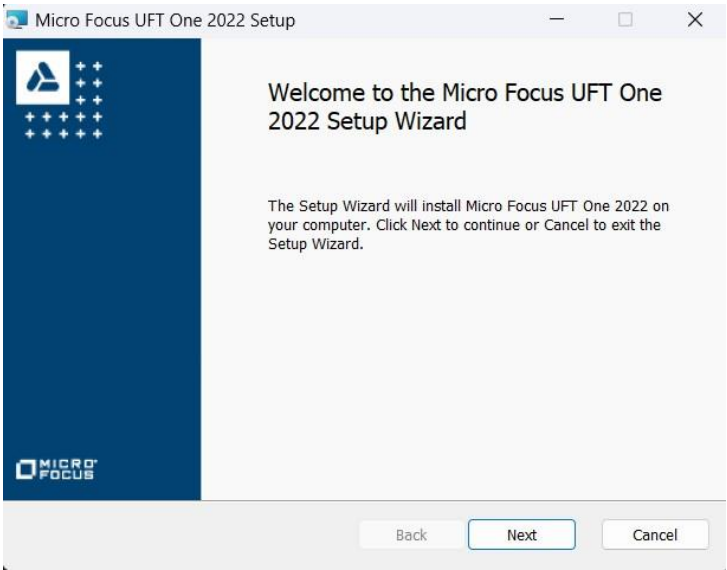
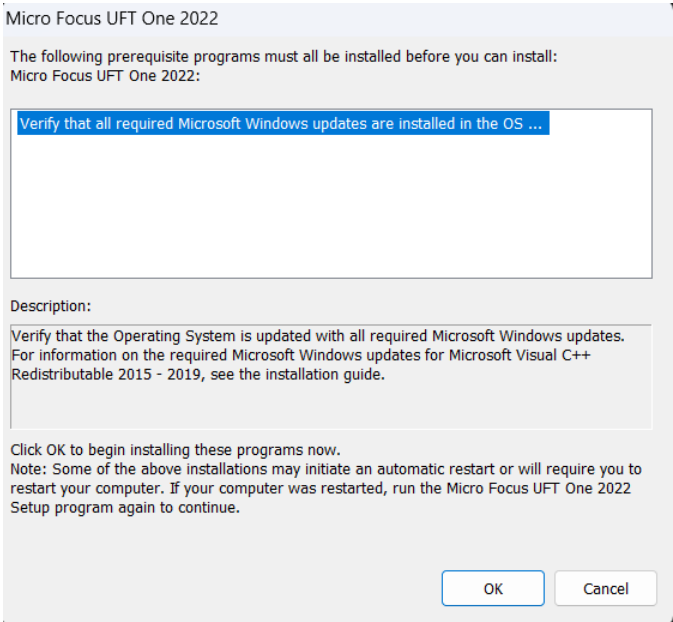
	Description	Category	Platform	Language	File Type	Media Version	Created Date	Action
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<input type="checkbox"/>	UFT One 24.2 Package For the Web Bundle	UFT Seat 24.2	Windows	--	Software	24.2	2024-04-08	More DetailsDownload

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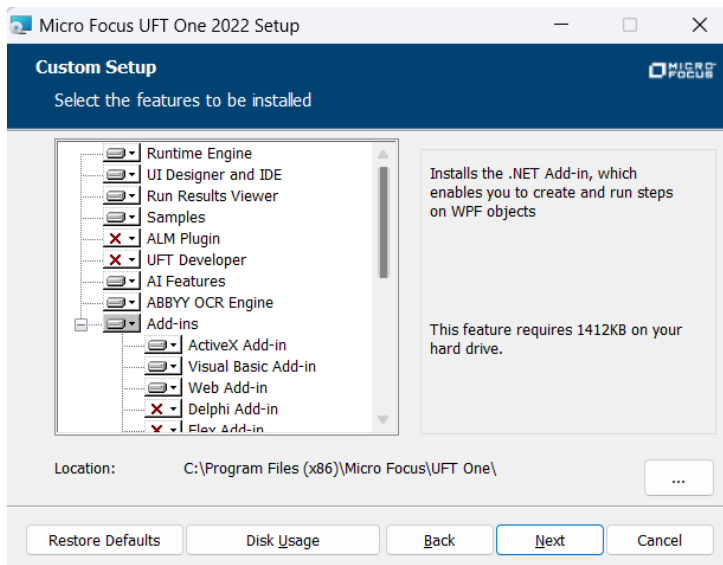
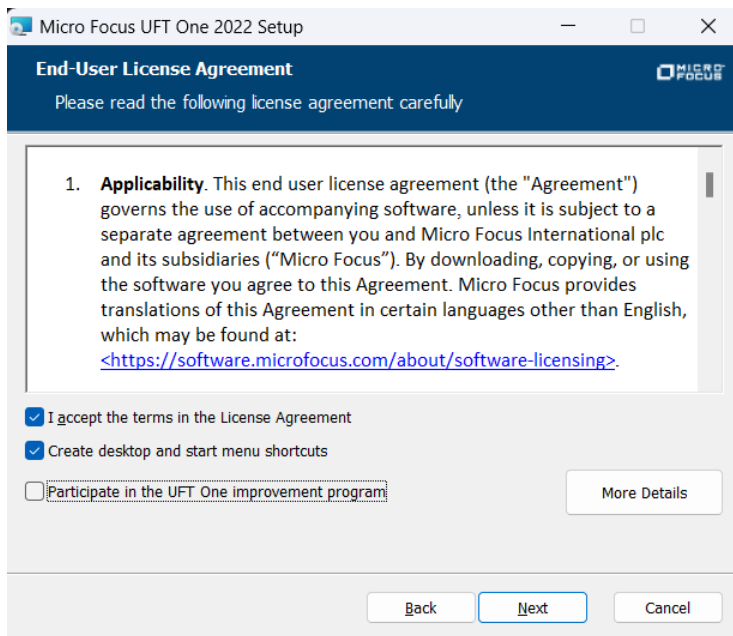


Click on UFT One Setup

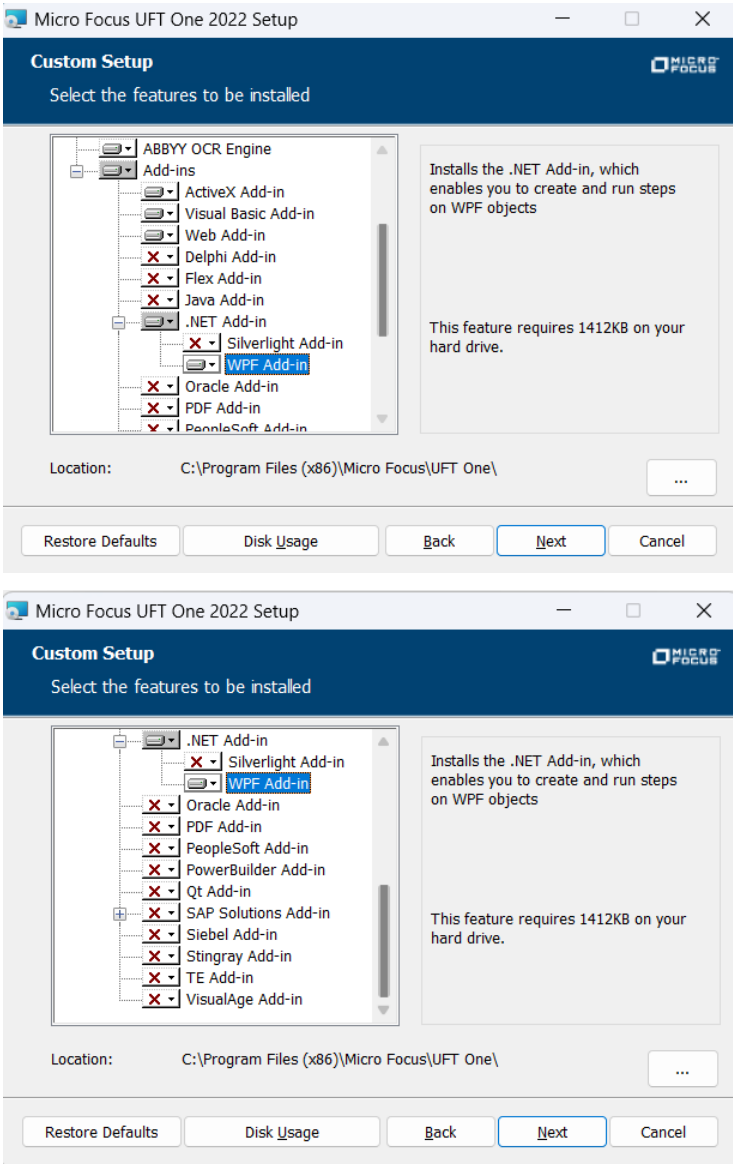
INFO 6255: Quality Assurance



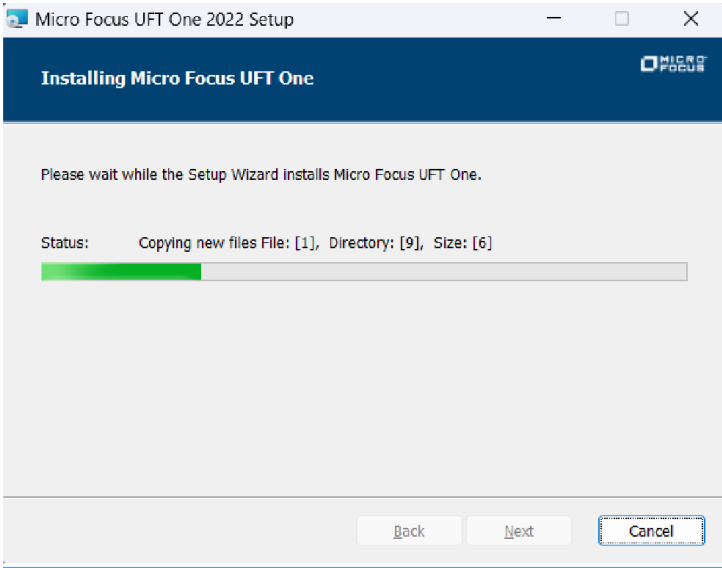
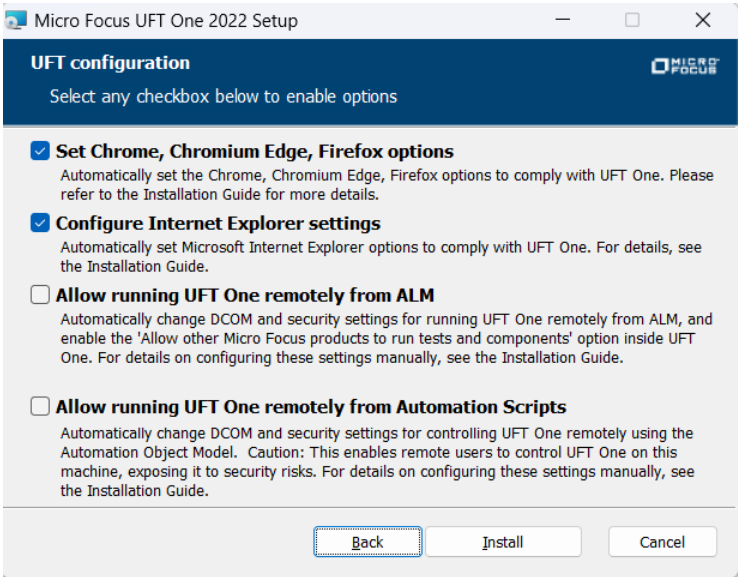
## INFO 6255: Quality Assurance



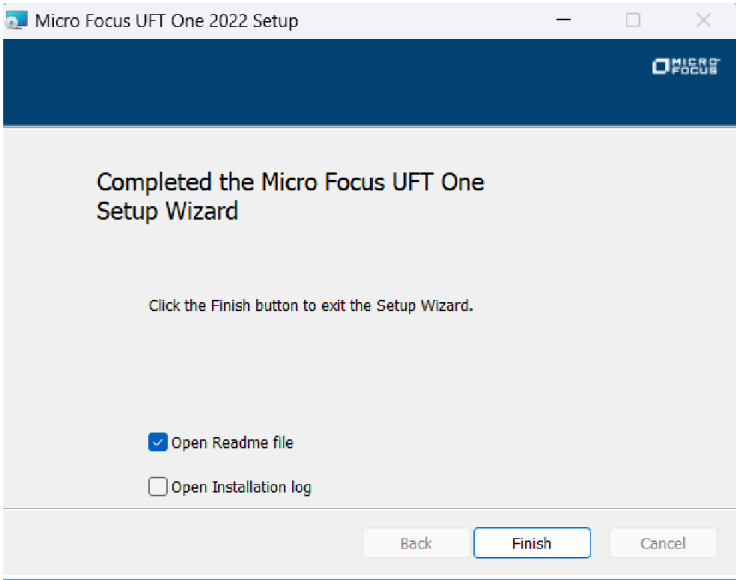
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MICRO FOCUS

License: DEMO

Select add-ins to load:

Add-in	License
<input type="checkbox"/> ActiveX	Licensed
<input checked="" type="checkbox"/> Mobile	Licensed
<input checked="" type="checkbox"/> UI Automation	Licensed
<input checked="" type="checkbox"/> Visual Basic	Licensed
<input checked="" type="checkbox"/> Web	Licensed

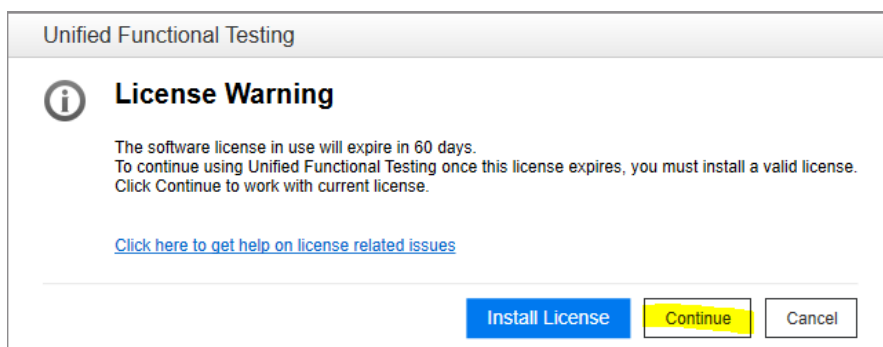
For optimal performance and object identification reliability, select only the add-ins you need.

☒ Show on startup

OKCancel



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### For students that don't have Windows System (Optional)

UFT is a functional and regression testing tool developed by Micro Focus (formerly HP) that is primarily designed to work on Windows operating system. UFT uses Windows-based technologies such as Windows API and Windows Forms, which are not natively supported on MacOS. Therefore, UFT cannot be installed or run directly on a MacOS system.

On a macOS system you can use either of the following to simulate a Windows Environment.

- VirtualBox
- VMware Fusion

It's important to note that running UFT on a virtual machine can be somewhat resource-intensive, so you will need to make sure that your MacOS system has **sufficient resources** (such as CPU and memory) to run the virtual machine. Also, it's important to make sure that virtualization **software and UFT version are compatible**.

### Guide to install UFT Connection Agent on MAC

The UFT Connection Agent is a service installed on your Apple Mac computer, which enables UFT to communicate with the Safari browser using the WebSockets protocol. This enables UFT to run tests on Web applications running in Safari on the Mac and to spy on objects in these applications.

Perform the following steps to install the UFT Connection Agent:

Prerequisites:

- You must have administrator permissions to install the UFT Connection Agent.
- All Mac users that use the UFT Connection Agent must have the agent installed in their Mac user account.

To run the installation:

1. Copy the installer image file (**UFTConnectionAgent.dmg**) from the **<UFT installation folder>/Installations/Safari** folder to the Mac.
2. Open the **UFTConnectionAgent.dmg** image file.
3. Double-click **UFT Connection Agent.pkg** to start the installation wizard. If you are prompted to install the extension from the Safari Extensions Gallery, click **Cancel**.

If you are working with Safari 11 or earlier, this installs both the UFT Connection Agent and the Unified Functional Testing Agent Safari extension. On later versions of Safari, follow the steps below, to install the Safari extension.

4. If you are working with Safari 12:
  1. Unpack the **UFTConnectionAgent.dmg** image file and save the **SafariUFT.safariextension** file from the package to your Mac.  
(**UFTConnectionAgent.dmg: Micro Focus UFT Connection Agent Installation\UFT**

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### Connection

Agent.pkg\Payload\SafariUFT.safariextz\SafariUFT\SafariUFT.safariextension).

2. In Safari, add the **SafariUFT.safariextension** file (**Develop-> Show Extension Builder->Add Extension**).
- a. Locate **Run the Functional Testing Agent** in the list of Safari extensions (**Safari->Preferences-> Extension**) and run it.

**Note:** You need to run the agent again any time you close and reopen Safari and want to use the testing agent again.

Links for MAC users

Run HP UFT on MAC using Safari

<https://testguild.com/uft-gui-mac-using-safari/>

Install agent

[https://admhelp.microfocus.com/uft/en/14.50-14.53/UFT\\_Help/Content/Addins\\_Guide/Remote\\_Connection\\_AgentOn\\_Mac\\_Task.htm#mt-item-0](https://admhelp.microfocus.com/uft/en/14.50-14.53/UFT_Help/Content/Addins_Guide/Remote_Connection_AgentOn_Mac_Task.htm#mt-item-0)

### VB scripting

Basically, all scripting languages are programming languages. The theoretical difference between the two is that scripting languages do not require the compilation step and are rather interpreted. For example, normally, a C program needs to be compiled before running whereas normally, a scripting language like JavaScript or PHP need not be compiled.

Generally, **compiled programs run faster than interpreted programs** because they are first converted native machine code. Also, compilers read and analyze the code only once, and report the errors collectively that the code might have, but the interpreter will read and analyze the code statements each time it meets them and halts at that very instance if there is some error.

### Applications of Scripting Languages :

1. To automate certain tasks in a program
2. Extracting information from a data set

Basics of UFT

Link: <https://www.youtube.com/watch?v=ZA40vb7tl28>

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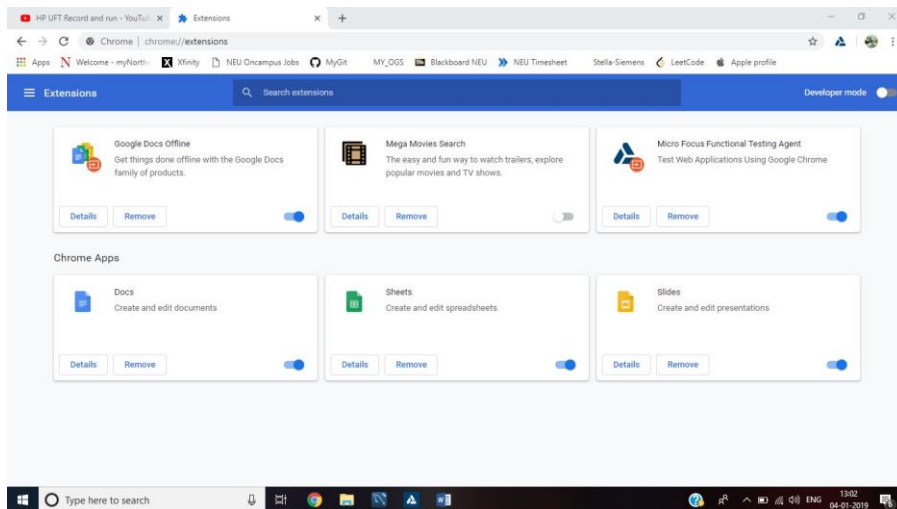
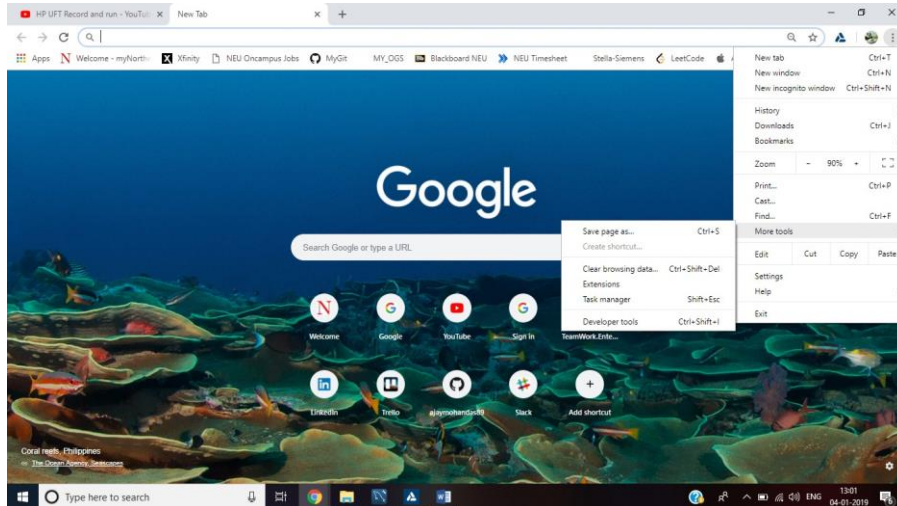
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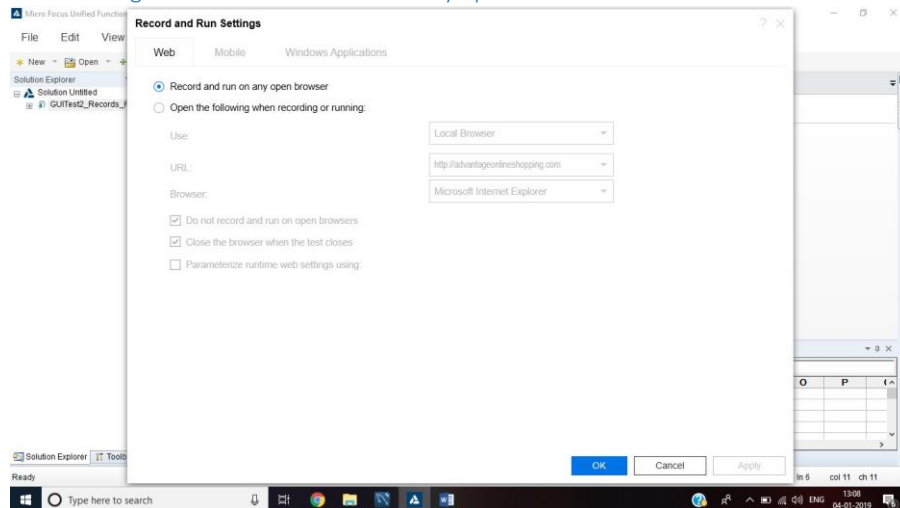
## Module 1: Record and run

**Pre-requisite:** Before using any browser make sure to enable Microfocus testing agent.



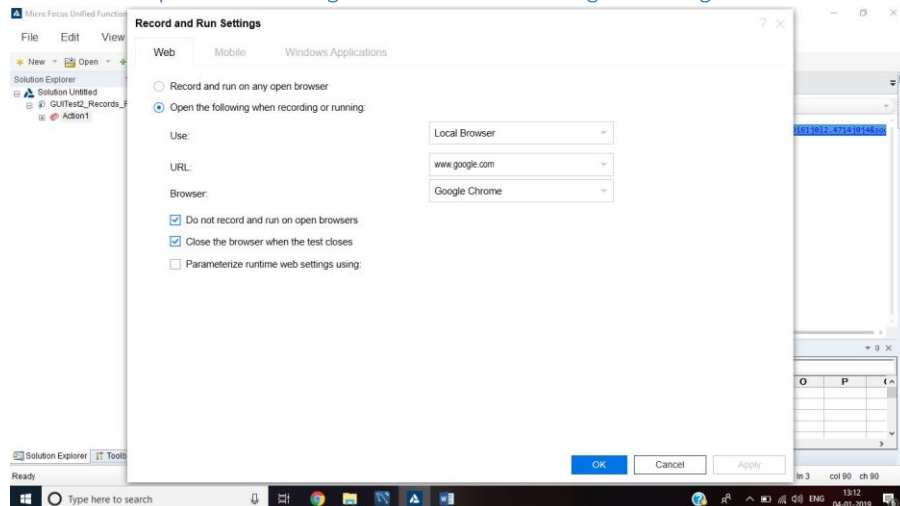
## INFO 6255: Quality Assurance

### Test 1: Using Web- Records and run on any open browser



```
SystemUtil.Run "C:\Users\Welcome\AppData\Roaming\Microsoft\Internet Explorer\Quick  
Launch\User Pinned\TaskBar\Google Chrome.Ink", "", "", ""  
Browser("Google").Navigate "https://www.youtube.com/"  
Browser("Google").Page("YouTube_2").WebEdit("Search").Set "hp uft"  
Browser("Google").Page("YouTube_2").WebEdit("Search").Submit  
Browser("Google").Page("YouTube_2").Link("HP UFT Record and run").Click
```

### Test2: Web- Open the following browser when recording or running



## INFO 6255: Quality Assurance

```
Browser("Google").Page("Google").Sync  
Browser("Google").Navigate  
"https://www.google.com/search?q=hp+uft&rlz=1C1SQJL_enIN810IN810&oq=hp+uft&aqs=chrome..  
69i57j69i60l2j69i61j0l2.4714j0j4&sourceid=chrome&ie=UTF-8"  
Browser("Google").Page("hp uft - Google Search").Link("Automated Testing, Unified").Click
```

### Test 3: Object spy

How UFT works?

UFT works as object, properties and values:

Board is object,

Its properties are height, width, color

Values of each property are 10, 10, white

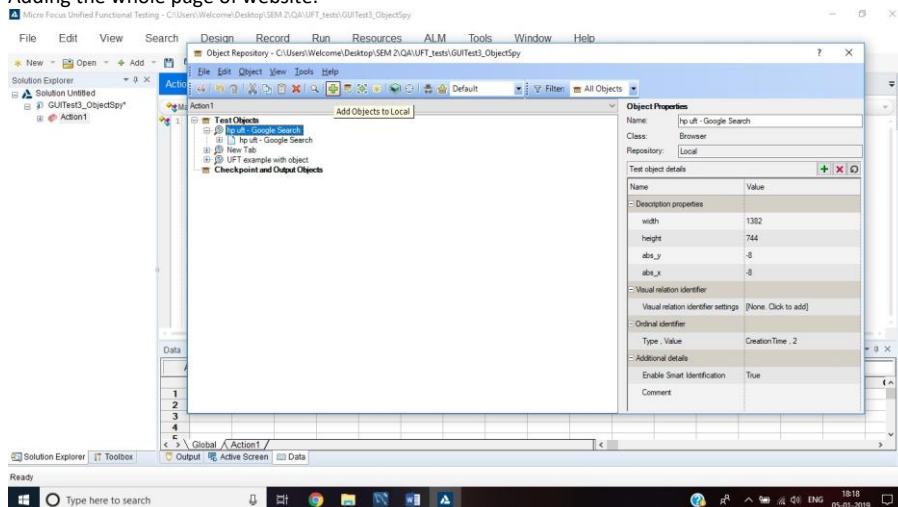
UFT does not store the object in the memory but its references/description i.e the property-value in the memory and recognizes the object. The place where UFT stores these references are object repository.

Object Identification helps UFT to capture the properties of an object. It is present in Tools → Object Identification

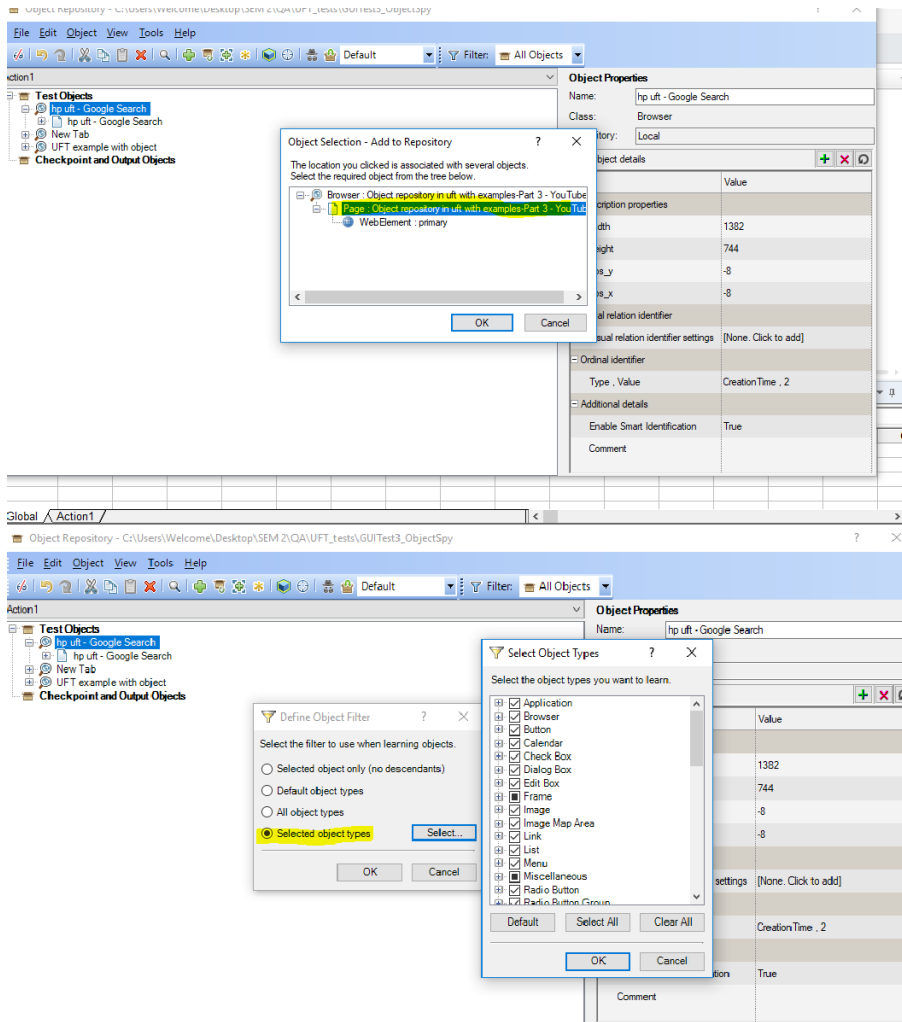
If all properties are selected then size of the file also increases hampering the performance of the script.

Note: Make sure the window/application you want to spy should be open and use object spy.

Adding the whole page of website:



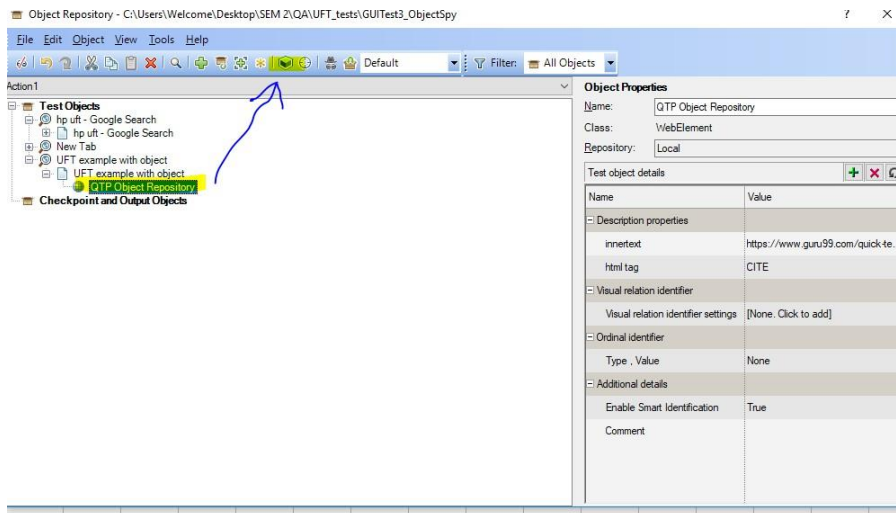
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Note: If you select “All object types” then all objects will be added to the repository

To search if the object has changed its location use ‘highlight’ option:

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### Test 4: Opening file in vbscript

filePath = "C:\Users\Welcome\Desktop\SEM 2\QA\TestData.xlsx"

Set xlApp = CreateObject("Excel.Application")

xlApp.DisplayAlerts = False

Set xlWb = xlApp.WorkBooks.Open(filePath)

Set sheet1 = xlWb.Sheets(1)

rowCount = sheet1.UsedRange.Rows.Count

columnCount = sheet1.UsedRange.Columns.Count

MsgBox sheet1.cells(2,1)

Set xlApp= nothing

Set xlWb = nothing

Set sheet1 = nothing

### Module 2

Checkpoints in UFT

Video link: <https://www.youtube.com/watch?v=e4CtPAdbl-M>

Web link: <https://www.guru99.com/quick-test-professional-ntp-tutorial-13.html>