

**DEVOPS
SWAT**

**CA DevTest
10.6**



DevTest Upgrade Guide - 10.3 to 10.6

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Contents

Chapter 1: Introduction	3
Purpose	3
Document Tracking	3
Reporting Issues.....	3
Chapter 2: Before You Begin	4
Review Documentation	4
Gather Materials	4
Backup Data.....	4
Download DevTest Installer.....	5
Chapter 3: Perform the Upgrade	7
Stop DevTest Services	7
Upgrade DevTest	7
Verify Installation.....	12
Chapter 4: Post-Upgrade Tasks	14
Verify Properties Files	14
Custom Folders.....	15
Custom Jar Files	15
Memory Allocation Settings	15
Projects	15
Starting and Stopping DevTest	15
Access Control and LDAP Configuration.....	15

Chapter 1: Introduction

Purpose

The purpose of this document is to describe the upgrade process from DevTest 10.3 to 10.6. This procedure assumes an in-place upgrade (i.e., installing to the same directory as the existing installation).

While the upgrade process itself is straightforward and may only take a few hours, we recommend consulting Broadcom Technical Support and allocating at least 2-3 days downtime for the upgrade itself and any configuration changes that need to be made or issues that may arise.

Document Tracking

Version	Date	Author	Version
9.1.0.399 GA	03.09.2016	Koustubh Warty	Version 2.0
10.1.0.283 GA	04.25.2017	Daniel Mazzei	Version 3.0
10.1.0.283 GA	12.04.2017	Daniel Mazzei	Version 4.0
10.3.0.297 GA	03.26.2018	Daniel Mazzei	Version 5.0
10.4.0.366 GA	09.25.2018	Surya Suravarapu	Version 6.0
10.6.0.1011 GA	05.28.2020	Surya Suravarapu	Version 7.0

Reporting Issues

Please send your questions/comments/concerns on this document to Koustubh.Warty@broadcom.com, Daniel.Mazzei@broadcom.com and SuryaAnilKumar.Suravarapu@broadcom.com

Chapter 2: Before You Begin

Review Documentation

There are many resources available to answer questions you may have about the upgrade process or specific configuration settings. We highly suggest you visit the [DevTest Upgrade Center](#) and review the information provided before performing the upgrade. You can also find information about the upgrade process, including pre-requisites and post-installation checks, in the [Preparing Your DevTest Upgrade](#) section of the DevTest 10.6 documentation. Be sure to verify all [system requirements](#) (including operating system and database versions supported) to make sure you have the recommended memory and storage capacity. It's also important to note that you will need administrative access to your databases.

A list of the New Features and Enhancements, Resolved Issues, Known Issues, End of Service and End of Life announcements, and much other information, can be found in the [DevTest 10.6 Release Notes](#).

The currently supported versions of DevTest are 10.3 (EOS – October 31, 2020) and above. If you are running a version of DevTest older than 10.3 you must contact your Broadcom account representative prior to upgrading.

Gather Materials

Gather all the required license keys, installation files, and environment information prior to beginning the upgrade, including:

- **Installation files:** Follow the [instructions in the documentation](#) to download the installation files for a supported operating system.
- **Preparing your Devtest upgrade:** Follow the [instructions in the documentation](#) on preparing your devtest upgrade. This comprises of steps such as reviewing the new component changes, backing up environment, preparing DB migration etc. This is an important step and the link offers lot of useful information in this regard.
- **Environment information:** A list of hostnames, IP addresses, usernames, passwords, databases, etc. must be accessible during the upgrade. Be sure to collect database login information, LDAP configuration settings, SSL certificates, etc. as well or have someone who can provide this information on standby before starting the upgrade.
- **License keys:** Before installing or upgrading to 10.6, you need to request a new license file (devtestlic.xml). Here's how:
 - Step 1: Have a name and contact email address where the new license file will be sent. In addition, gather the Mac address of the servers where you plan to install the enterprise dashboard.
 - Step 2: Contact the Customer Support Team for a new license. The process for requesting new license can be found at [link](#)
 - Step 3: The team will create a new license file and send it to the email address you provide.Make sure you have a valid license key file. For more information about licensing, see [Licensing](#)

Backup Data

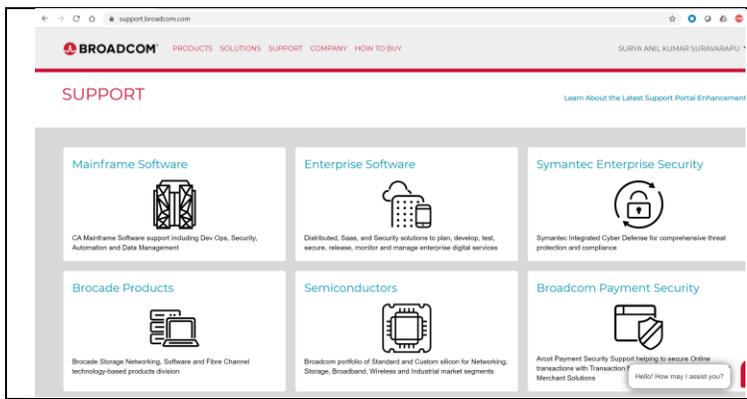
This is a mandatory step that needs to be done prior to proceeding with the upgrade. We will be doing an in-place upgrade which necessitates to back up the following to a remote location –

- The entire existing DevTest 10.3 folder
 - This would take care of the following which are important files in your installation
 - Properties files (local, site, lisa and dradis)
 - Virtual Services (if stored locally)
 - Application Test tests (if stored locally)
 - HotDeploy folder
 - vseDeploy folder
 - lib
 - any custom folders

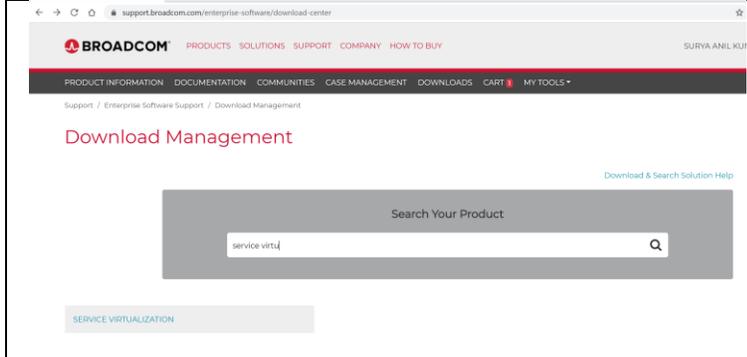
If you have stored your existing Tests and Virtual Services in a Source Control Repository, then the recommendation is to make a copy of those assets. Once that copy is created, you can use the new copy with DevTest 10.6. In this case, if there are any issues, then you would have a backup to fall back on if required.

NOTE: All the above files and folders are preserved during the upgrade from the previous release. The backup is precautionary if there was to be an unforeseen issue during the in-place upgrade. Always back up existing projects, properties files, etc. even if you are using a versioning system.

[Download DevTest Installer](#)

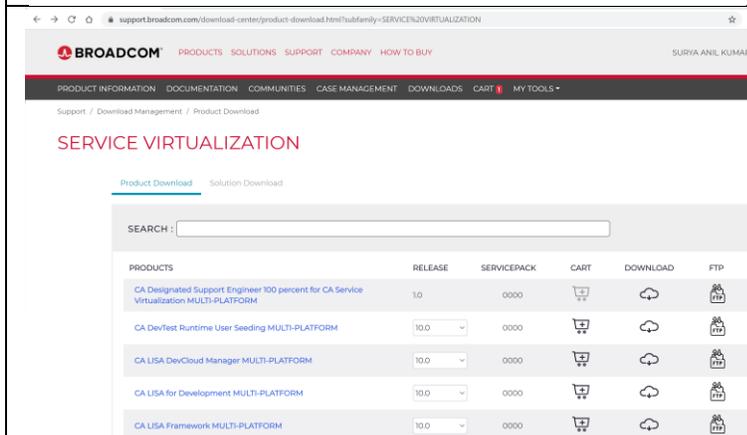


DevTest 10.6 can be downloaded from the Broadcom Support site at <https://support.broadcom.com>. Log in or create an account if you do not have one already.

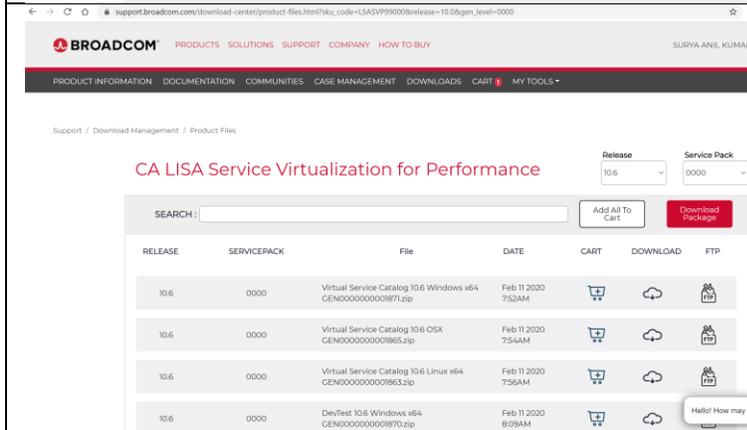


Click Enterprise Software. In the following page, click Product Downloads.

In the Search Your Product box type "Service Virtualization" and select the option for Service Virtualization (DevTest / LISA / VSE / Application Test).

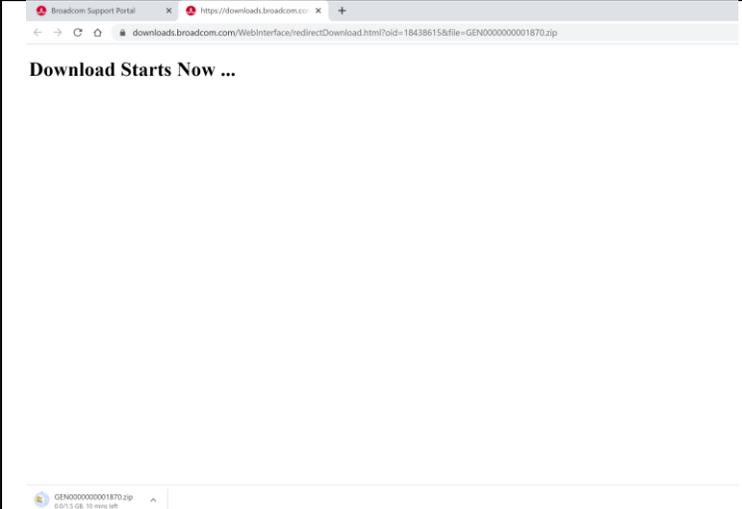


Click on the **Service Virtualization box** to expand the Product Download section and scroll down.



Click on **ANY of the product names in blue**. It does not matter which one you click on. They all present the same download options in the next step.

The page will refresh. **Filter** the selection by **Release** and **Service Pack**.

	<p>Locate the appropriate packages for your OS and click either the FTP icon or the cloud icon to choose your download option. Selecting cloud icon will use HTTP Via Internet Browser to start the download in your browser.</p> <p>For example, to install DevTest server components and Workstation UI on Windows Server 64-bit, select the DEVTEST 10.6 WINDOWS X64, which contains both the server components and Workstation UI. To install DevTest server components on Linux and Workstation on Windows, you need both the DEVTEST 10.6 WINDOWS X64 and DEVTEST 10.6 LINUX X64. Note: Be sure to disable pop-up blockers.</p>
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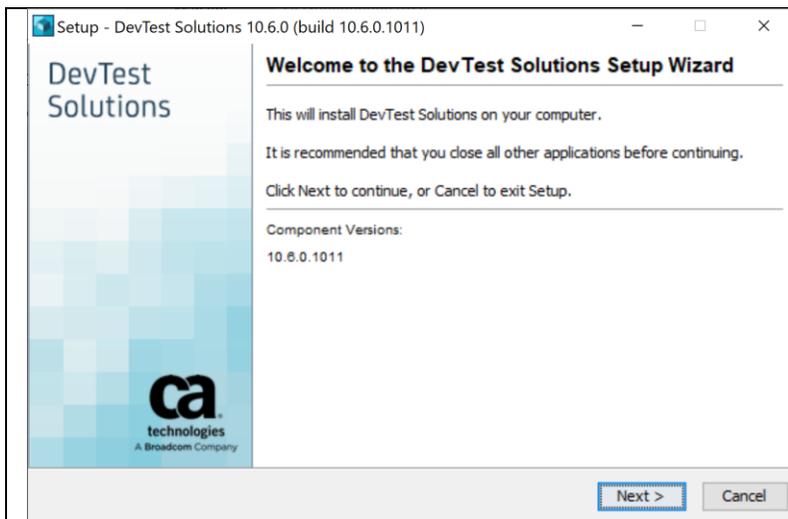
Chapter 3: Perform the Upgrade

Stop DevTest Services

Shutdown the following component services (if your existing DevTest runs as Windows services) in addition to DevTest UIs, Workstation or Demoserver. This is also applicable for the various components installed remotely that connect to the Registry.

- DevTest Enterprise Dashboard
- DevTest Registry Service
- DevTest Coordinator Service
- DevTest Simulator Service
- DevTest VSE Service
- DevTest Portal Service
- DevTest Broker Service

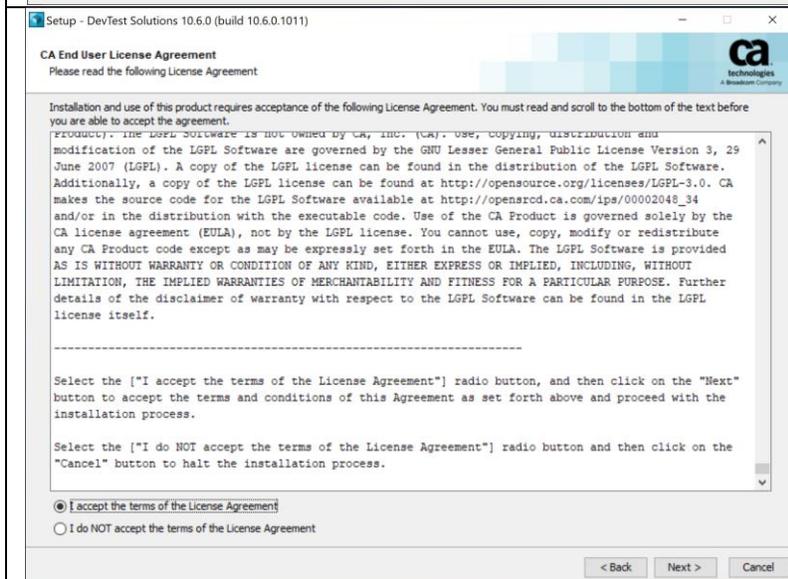
Upgrade DevTest



Extract the installation zip files downloaded previously and launch the DevTest installation utility to start the upgrade process.

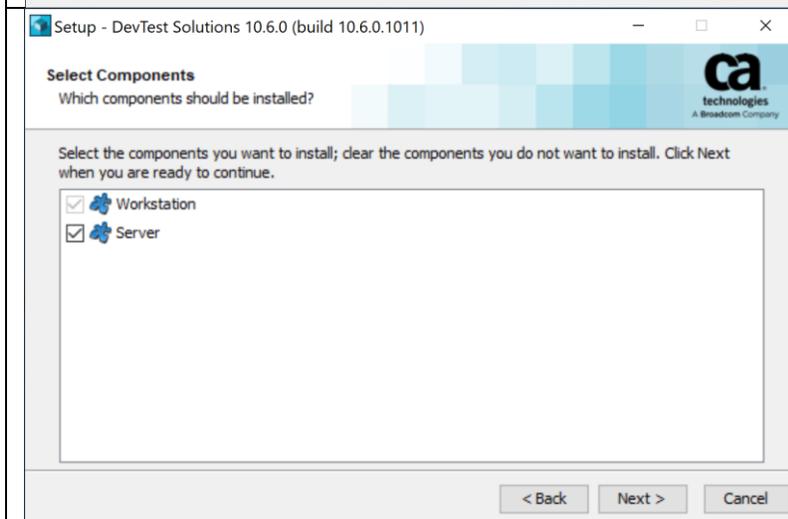
The setup wizard guides you through the install procedure, querying for mandatory and optional product settings.

Click **Next**



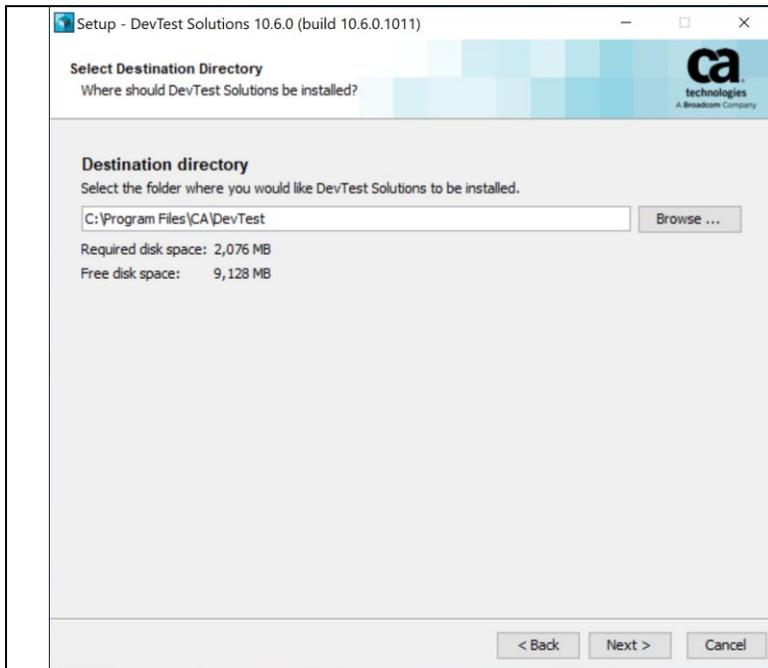
CA requires the users to accept the End User License Agreement before proceeding with the installation.

The user needs to go through the Agreement (scroll down), select 'I Accept...' and click Next to continue with the installation.



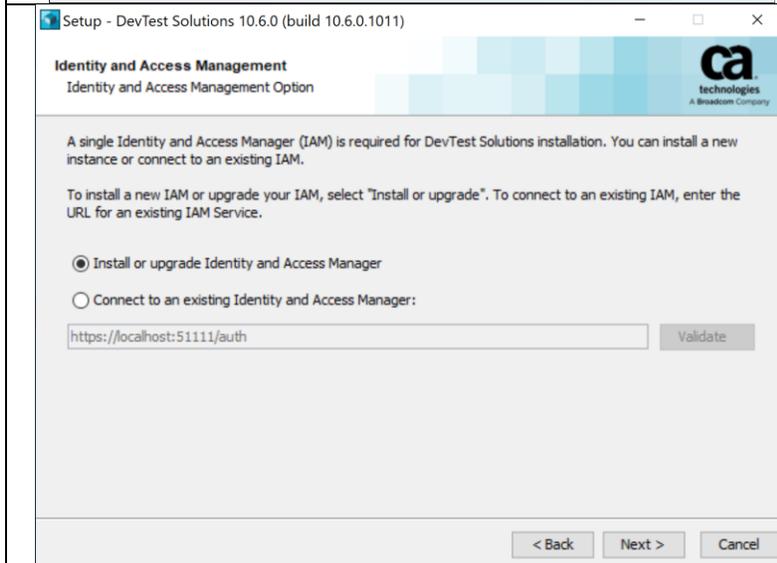
In this screen, options are provided to select which components to install. We can deselect the installation of server components if we want to install Workstation only.

We will install DevTest Server components and Workstation on the same Windows machine for the "in-place" upgrade, so click Next.



Since you already have DevTest installed as this is an “in-place” upgrade, the installer picks up the previous installation path. Click **Next**.

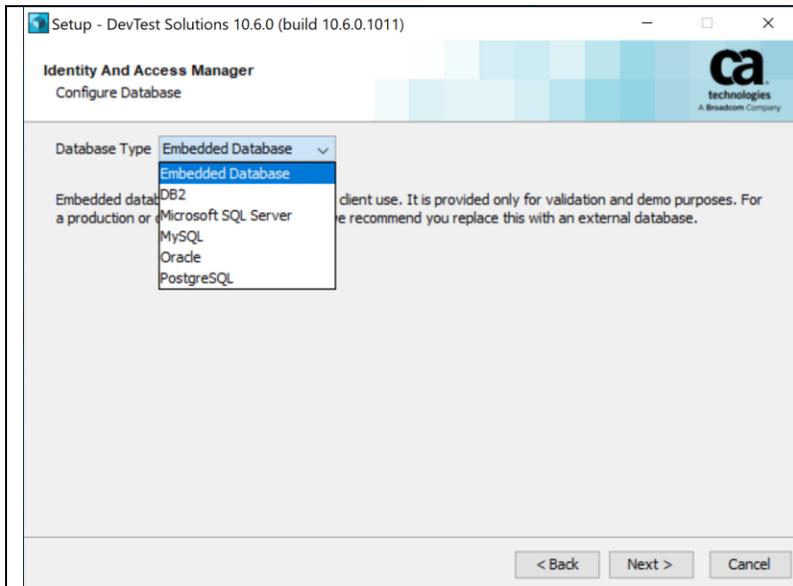
Note: Make sure you have already taken a backup of this folder. We will be doing an in-place upgrade over the existing installation.



This is a new screen in 10.6 which helps configure Identity and Access Manager (IAM) for access management which is a required component for DevTest installation.

You can choose to install or upgrade a new IAM instance or connect to an existing IAM instance by providing the connection details and click **Next**.

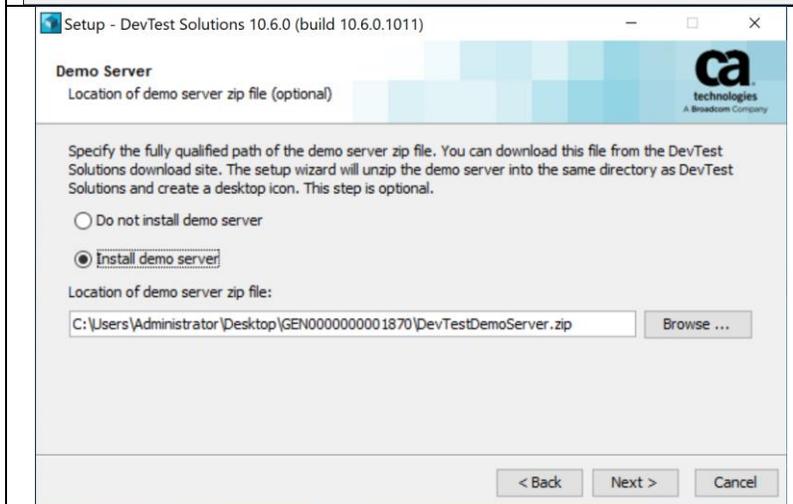
In this case, we will install a new IAM instance.



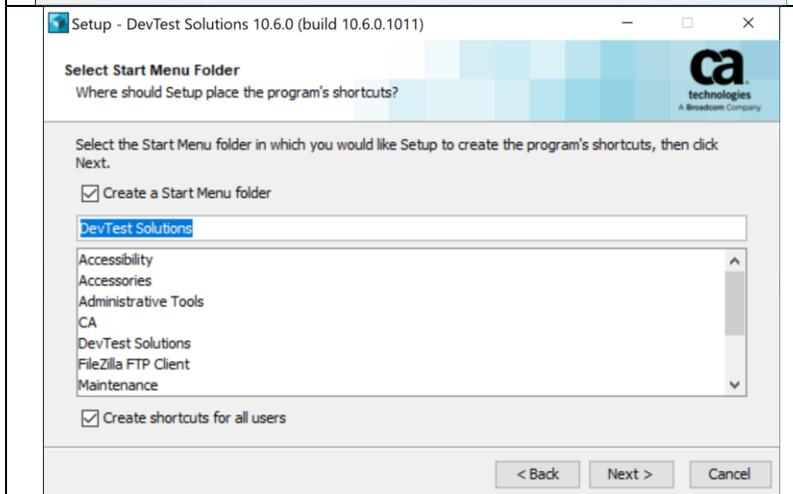
In this step, you can choose the database type that you would like to use with Identity and Access Manager (IAM).

In this case, we proceed with Embedded Database.

Note: Using the embedded database is not recommended as an enterprise solution. This database is not intended for use in a production environment.

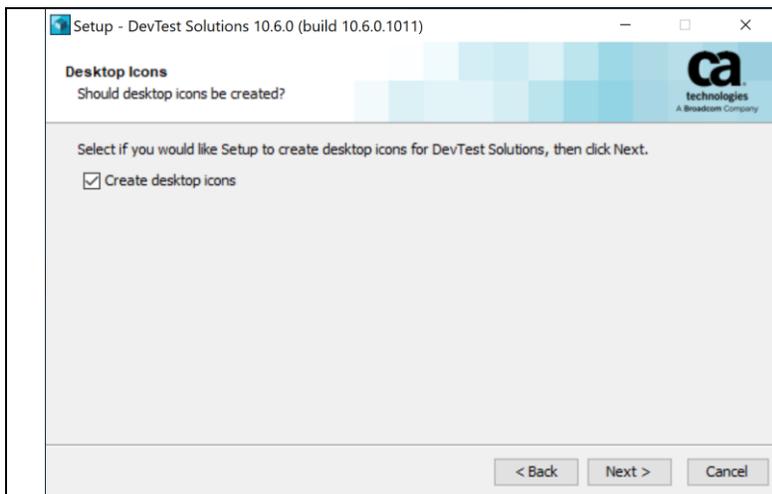


In this step, you can choose to install demo server by providing the path to the demo server zip file (DevtestDemoServer.zip).



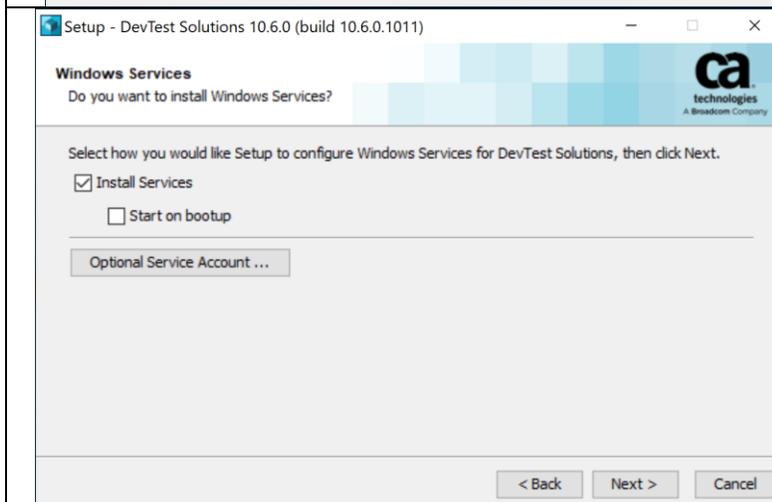
The installer queries for the name of the Menu Folder for DevTest, and if it will be part of the Windows Start menu and if Menu shortcuts shall be created for all.

Click **Next** to create shortcuts.



The next question is about if the user wants to have a desktop icon for DevTest solutions.

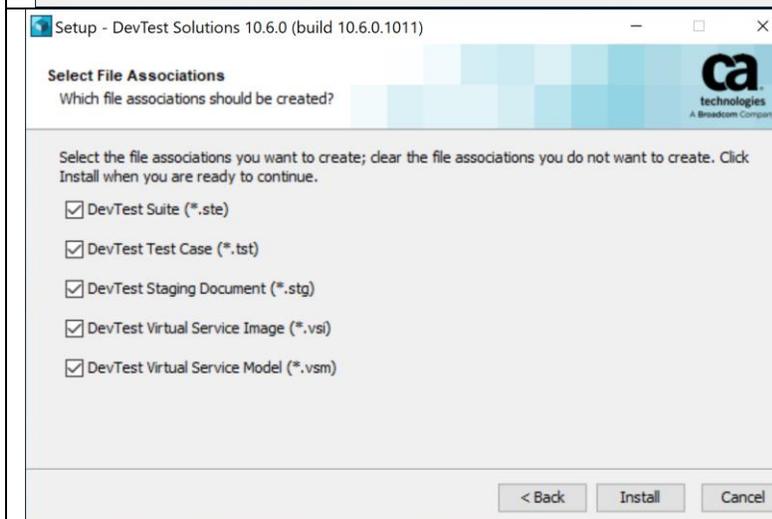
Click **Next** to create a shortcut.



By default, the DevTest services are installed as Windows services.

Optionally, the installer can configure the DevTest services for automatic start at system start up. If this is a dedicated DevTest server (and not your local laptop or workstation) we recommend starting DevTest services on bootup. You can also select which account you want to start DevTest.

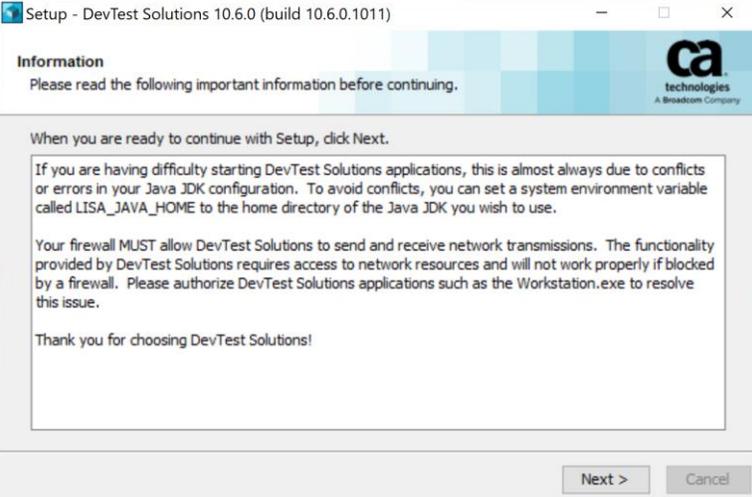
Click Next.



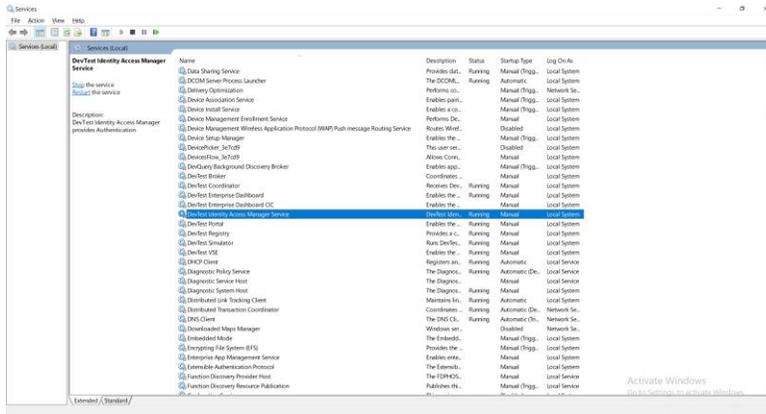
Options are offered to associate file extensions with DevTest solutions.

We will accept the default associations.

Clicking on the **Install** button will start the installation process.

	<p>Once the installation is completed, some post install instructions are provided. Please read and follow carefully.</p> <p>Click Next to finish the installation.</p>
	<p>Click Finish to close the Setup.</p> <p>Note: Make sure that the installation directory (default on Windows: %PROGRAMFILES%\CA\DevTest) is enabled for Read/Write access for all users. Otherwise import of RR Pairs will fail because the import will store data in the projects folder under {{LISA_HOME}}, which is installed at path under %ProgramFiles%.</p>

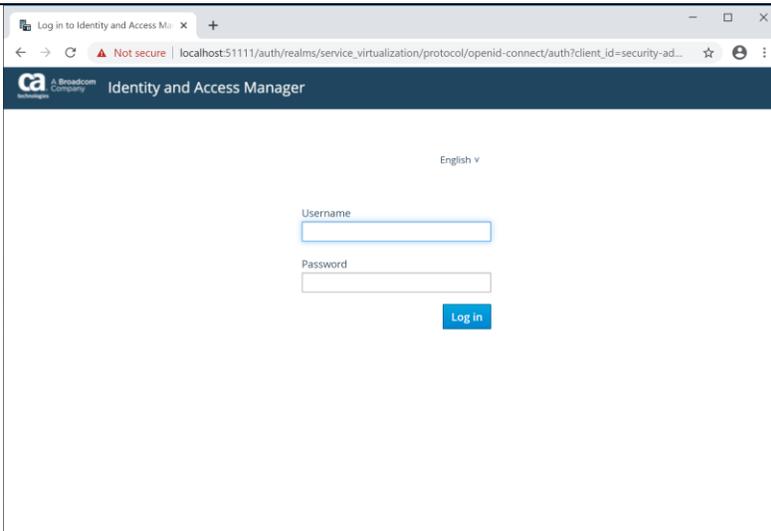
Verify Installation



After installation, the Identity and Access Manager and DevTest Enterprise Dashboard Service must be started first prior to starting DevTest Registry Service, which communicates with the Enterprise Dashboard.

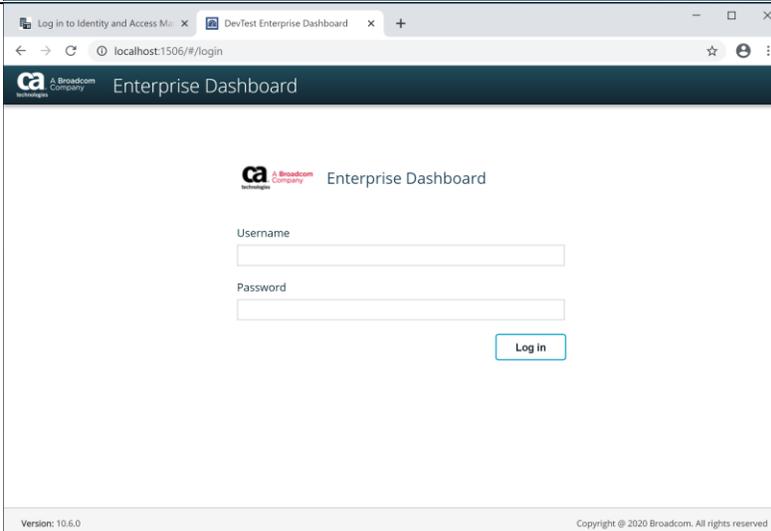
Start the DevTest services in this order:

1. Identity and Access Manager
2. Enterprise Dashboard
3. Registry
4. Portal
5. Broker
6. Coordinator
7. Simulator
8. VSE



<https://localhost:51111/> will show the UI (login) for Identity Access Manager. Verify if you can login to the IAM UI using admin user.

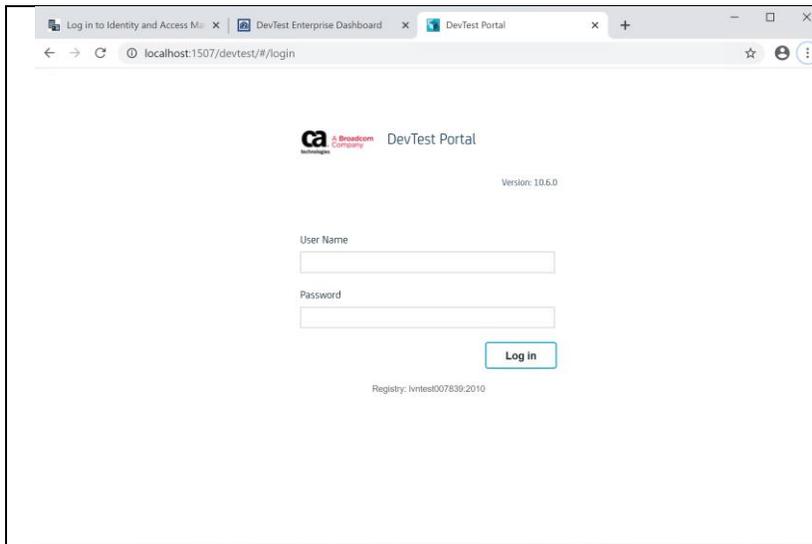
Once you login, you can perform user and role management and configure active directory / ldap integration (if desired).



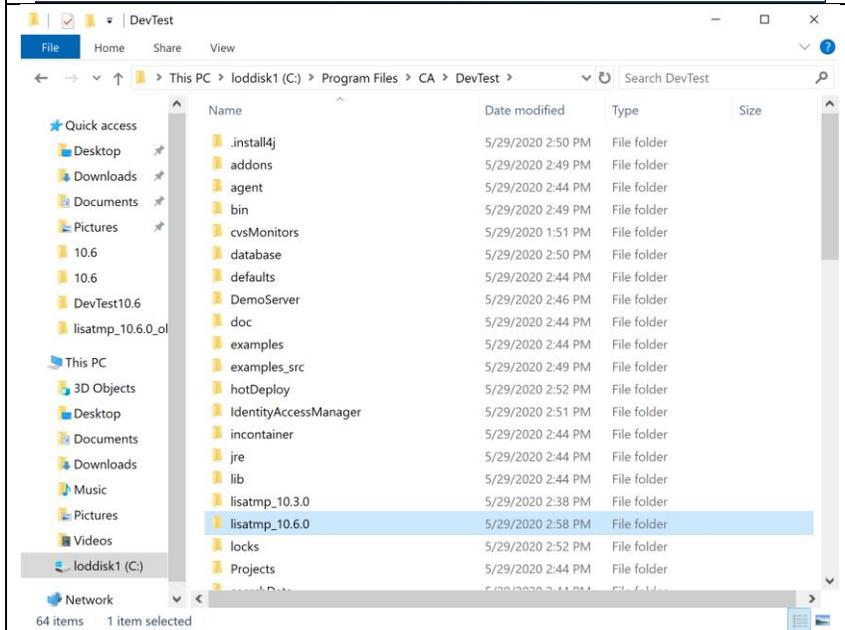
<http://localhost:1506> should show the new UI (login) for Enterprise Dashboard.

You can log into the Enterprise Dashboard with the same admin user that you use with portal.

Note: Before you bring up the Enterprise Dashboard UI, be sure to clear your browser cache



Since this is the first time DevTest is starting, give it about five minutes to load the various components, then verify that you can log in to the DevTest Portal as admin user.



Verify that the lisatmp_10.6.0 folder is created. This is if DevTest is started as Windows services. If started as regular application from command line lisatmp_10.6.0 is under %USERS%\<user>

Chapter 4: Post-Upgrade Tasks

Verify Properties Files

It is highly recommended that you review the properties files after the upgrade to confirm all settings have been preserved. Some properties and properties files change during the upgrade and may need to be manually updated.

- If you created a **local.properties** file, the file is *preserved* as is.
- If you created a **site.properties** file, the file is *preserved* as is.
- A default **_dradis.properties** file is *created*. Any customized properties for Enterprise Dashboard in your **local.properties** or **site.properties** file are *migrated* to a **dradis.properties** file.
- The default **_local.properties** file of the existing installation is *replaced* with the 10.6 version.
- The default **_site.properties** file of the existing installation is *replaced* with the 10.6 version.
- The **lisa.properties** file of the existing installation is *replaced* with the 10.6 version. You should *never* modify the **lisa.properties** file. If you did make changes to the **lisa.properties** file, the upgrade process overwrites the changes. You should move those changes to **site.properties** or **local.properties** before the upgrade.

Always verify the out-of-the-box settings before adding in external database and security configurations. Properties files are evaluated in the following order:

- lisa.properties
- site.properties (take precedence over lisa.properties)
- local.properties (takes precedence over site.properties and lisa.properties)
- Command line and vmoptions files (takes precedence over all properties defined in any of the properties files)

Custom Folders

If the existing installation contains any custom folders, the folders are preserved as is.

Custom Jar Files

If the existing installation contains any custom JAR files in the <LISA_HOME>\lib directory, the JAR files are preserved as is.

Memory Allocation Settings

If the existing installation contains any modified '.vmoptions' files in the <LISA_HOME>\bin directory, the files are preserved as is.

Projects

The Projects directory will be deleted. Save your Projects directory outside the <LISAHOME> directory (e.g. C:\DevTest_Projects_Backup).

Starting and Stopping DevTest

Start the DevTest Server processes (or services) in the following sequence:

1. Start the Identity and Access Manager
2. Start the Enterprise Dashboard
3. Start each Registry
4. Start DevTest Portal
5. Start the following components in any order:
 - a. Broker
 - b. Coordinator
 - c. Simulator
 - d. Virtual Service Environment

Stop DevTest processes or services in the reverse order.

Access Control and LDAP Configuration

Access Control and [LDAP configuration](#) has now been moved to [Identity and Access Manager](#). All access related configurations need to be done through IAM UI.