



HPE AUTOPASS LICENSE SERVER FOR HPE STOREONCE VIRTUAL STORAGE APPLIANCE

Installation and configuration checklist

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EXECUTIVE SUMMARY

This technical white paper will help users install and set up an HPE AutoPass License Server (APLS) for the [HPE StoreOnce Virtual Storage Appliance \(VSA\)](#). The following items are included in this guide:

- Pre-installation checklist
- Installation guide
- Redundancy configuration guide
- Licensing the HPE AutoPass License Server
- Connecting an HPE StoreOnce VSA to the HPE AutoPass License Server
- Configuring or altering licenses on an HPE StoreOnce VSA

PRE-INSTALLATION CHECKLIST FOR HPE AUTOPASS LICENSE SERVER

- A static IP address (required) and fully qualified domain name (FQDN [optional]) for every instance deployed.
- A virtual or physical server for each instance to be installed onto.
 - Server specifications:
 - Minimum 1.6 GHz processor
 - A minimum of 1 GB RAM
 - A minimum of 300 MB of hard drive space (1 GB is recommended for optimal operation of the HPE Autopass License Server)
 - High color (16-bit), graphics card with 64 MB video memory
 - HTTPS protocol enabled
 - Port 5814 accessible
 - Ports 9001 & 7900 (default ports for redundancy configuration)
 - Supported Windows operating systems:
 - Windows 7
 - Windows 10
 - Windows 2008 R2
 - Windows Server 2008 SP2
 - Windows Server 2012 R2
 - Windows Server 2016

NOTE

Port 5814 must be open on the systems running HPE AutoPass License Server.

- Supported web browsers and plug-ins required to run HPE AutoPass License Server:
 - Mozilla Firefox 39
 - Internet Explorer 11
 - Google Chrome 40
- Download the latest version of the HPE APLS from: hpe.com/software/apls.
- HPE APLS redundancy:
 - Allocate two servers to each, and run an instance of the HPE APLS.

To license an HPE StoreOnce VSA, it must be using an instant-on license, such as the one found here: hpe.com/emea_europe/en/resources/storage/storeonce-vsa-evaluation.html

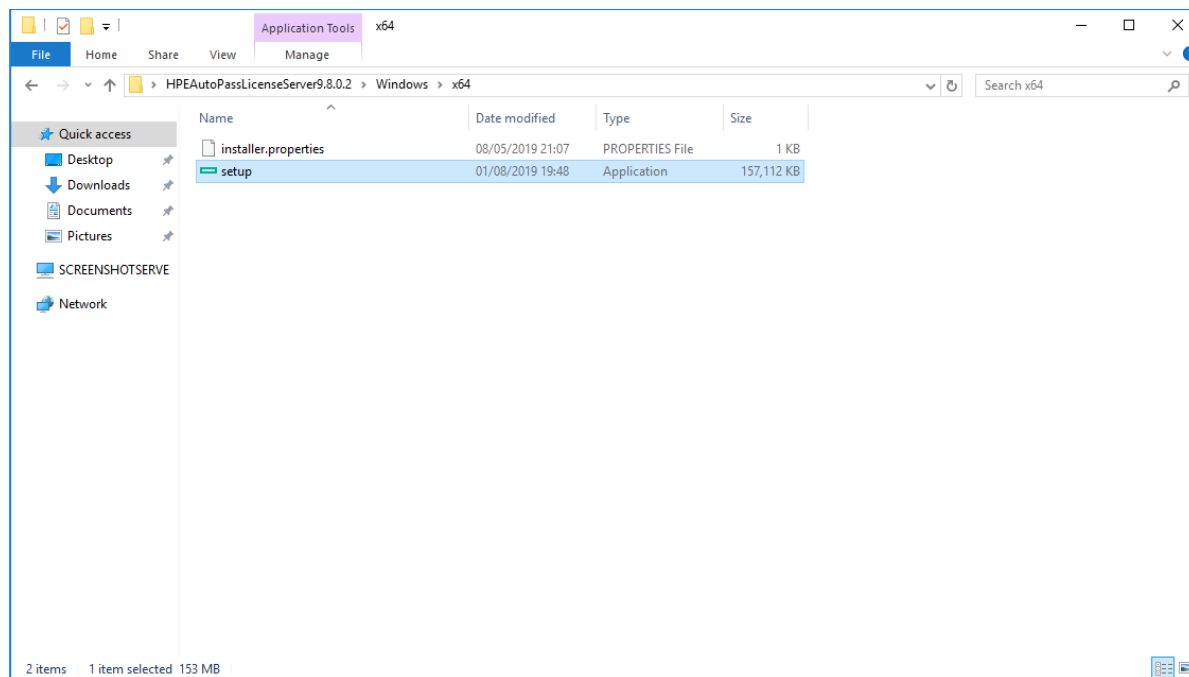


HOW TO INSTALL THE HPE AUTOPASS LICENSE SERVER ONTO WINDOWS

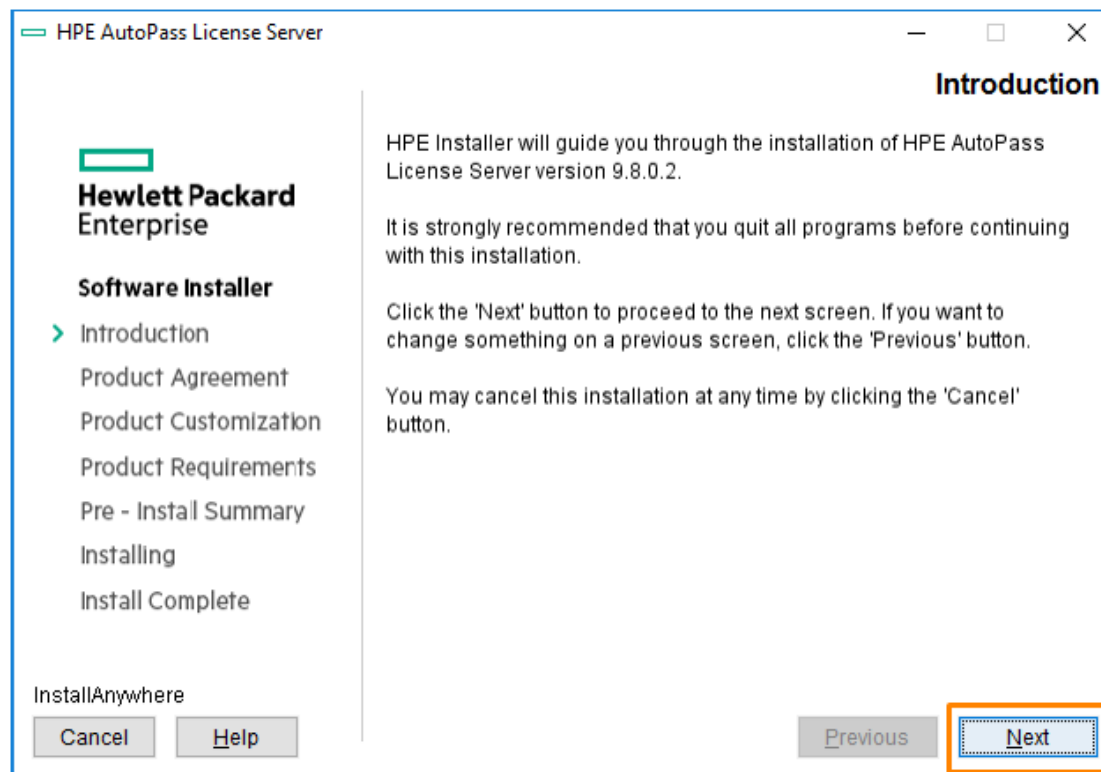
The following steps will guide you through how to install the HPE APLS on a server running a Windows x64 operating system.

1. Extract the contents of the `appl-x.x.x.x.zip` file, then double-click the `setup` executable within the `HPEAutoPassLicenseServerx.x.x.x\Windows\x64` directory.

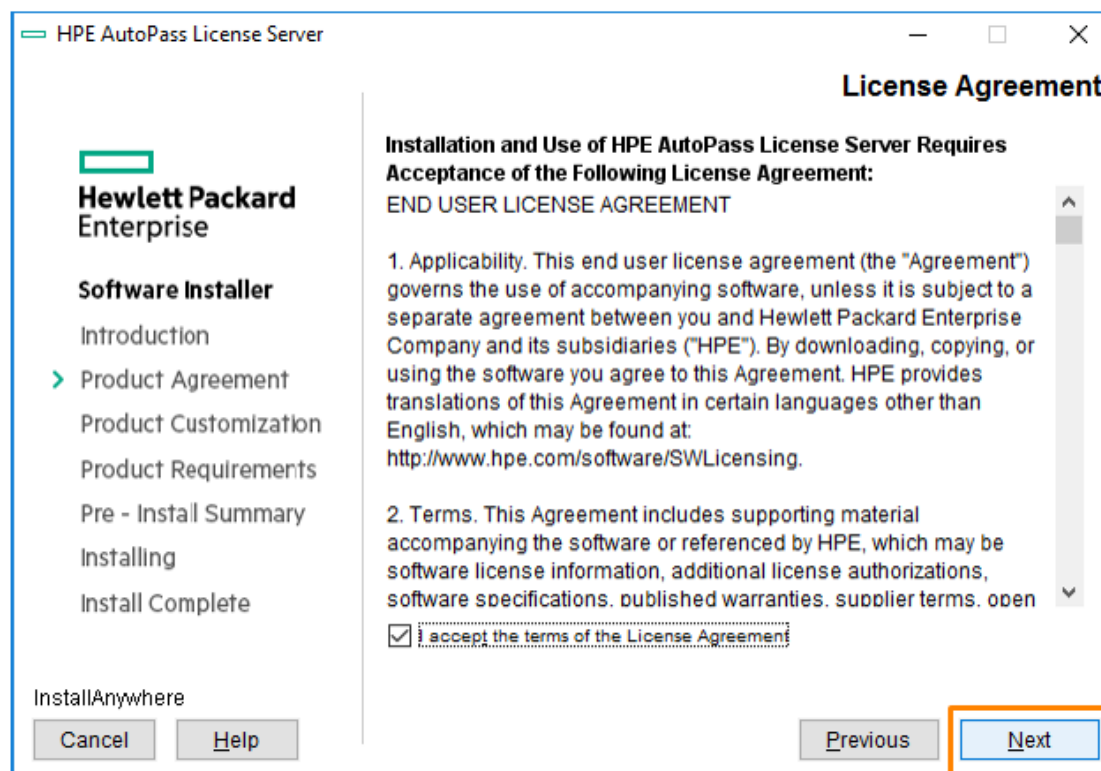
For this guide, version 9.8.0.2 shown in the following File Explorer address bar, will be used.



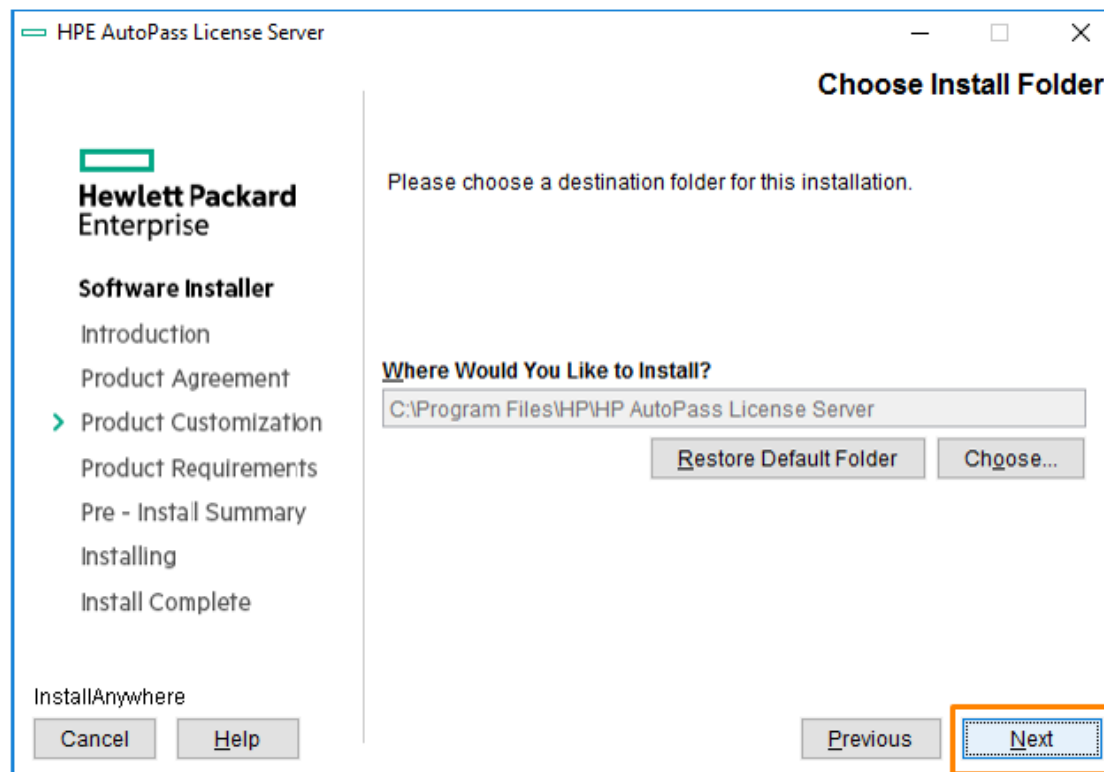
2. The HPE APLS **Introduction** screen will appear. Click **Next**.



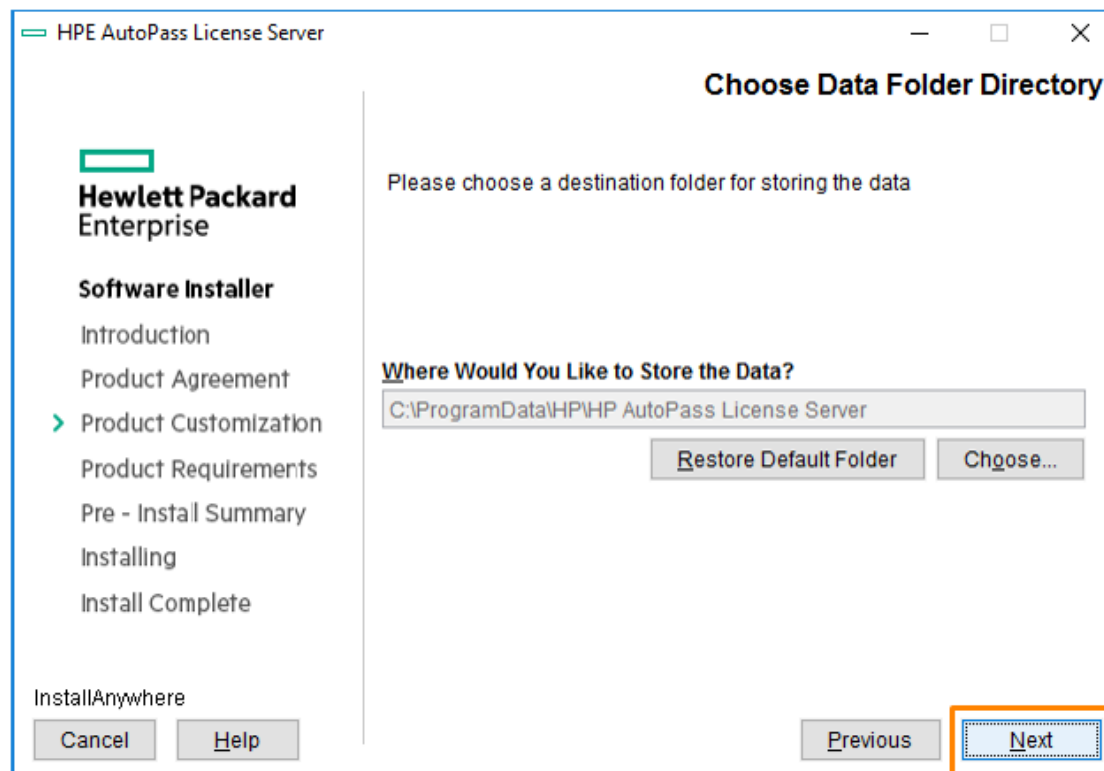
3. Check the acceptance of terms on the **License Agreement**, then click **Next**.



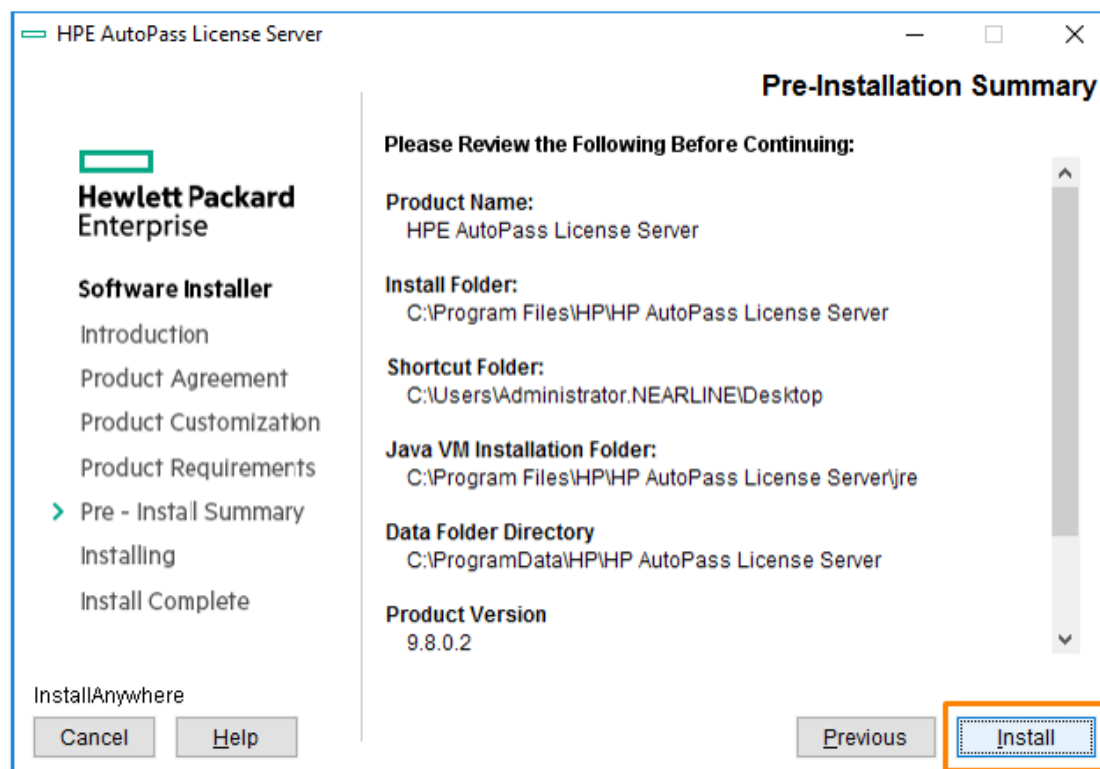
4. Select the directory location for the HPE APLS to be installed (“Default” location chosen), then click **Next**.



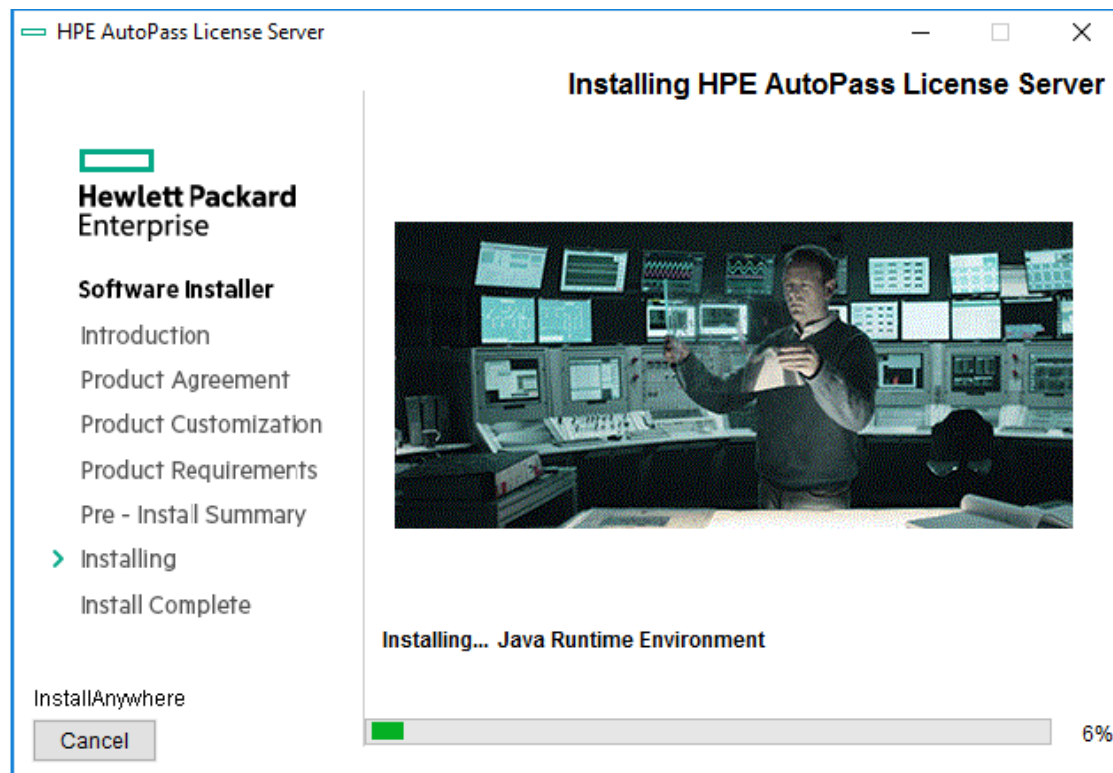
5. Select the directory location for the HPE APLS data to be installed (“Default” location chosen), then click **Next**.



- Review the summary, then click **Install**.



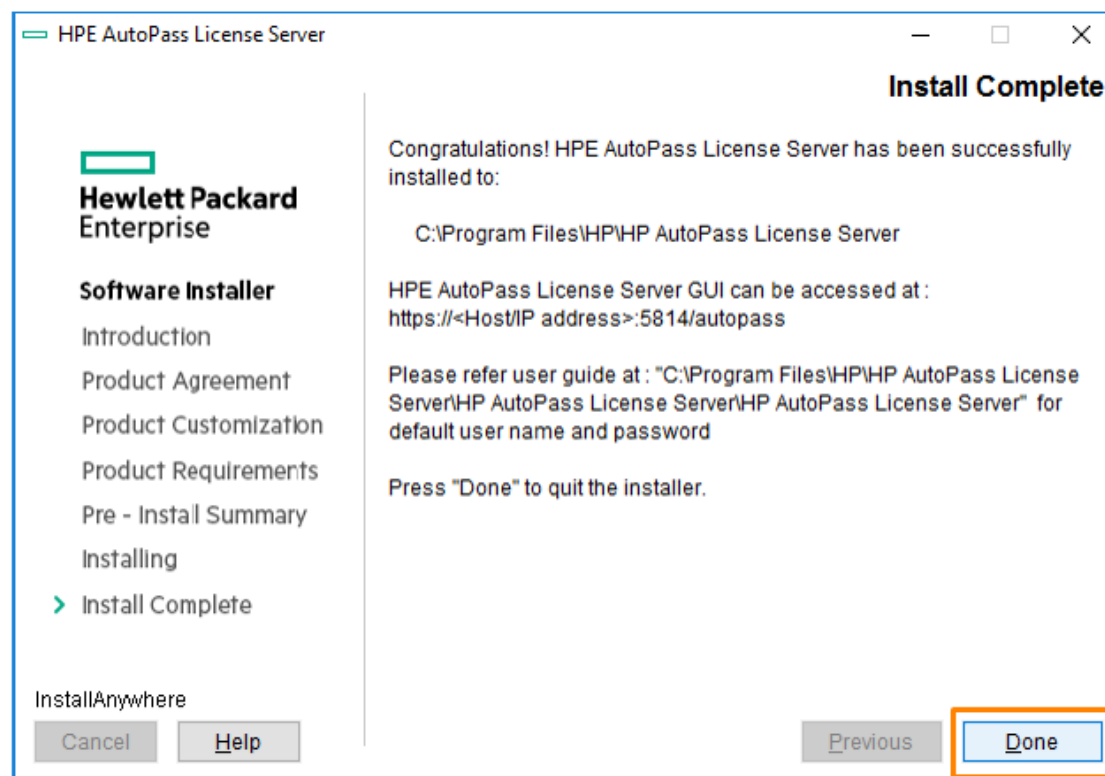
- Wait for the HPE APLS installation to complete.



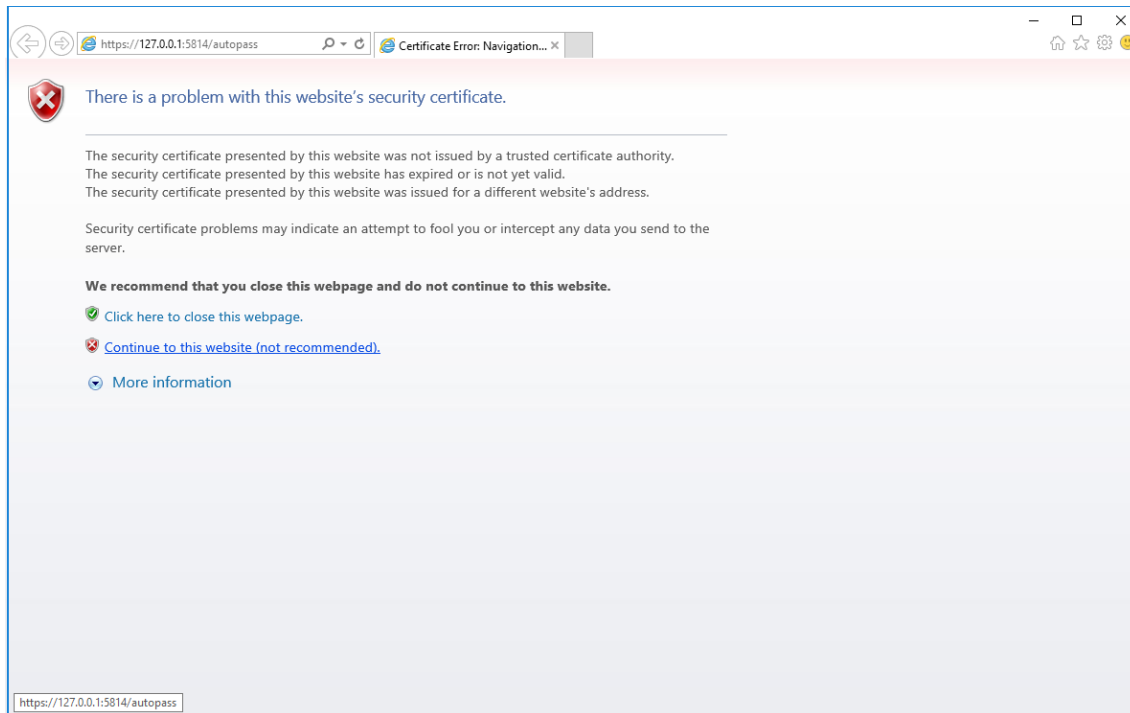
8. After the installation has completed, click **Done**.
If a certificate has been configured, you will automatically be taken to the login screen (step 10)

IMPORTANT

Port 5814 must be open.



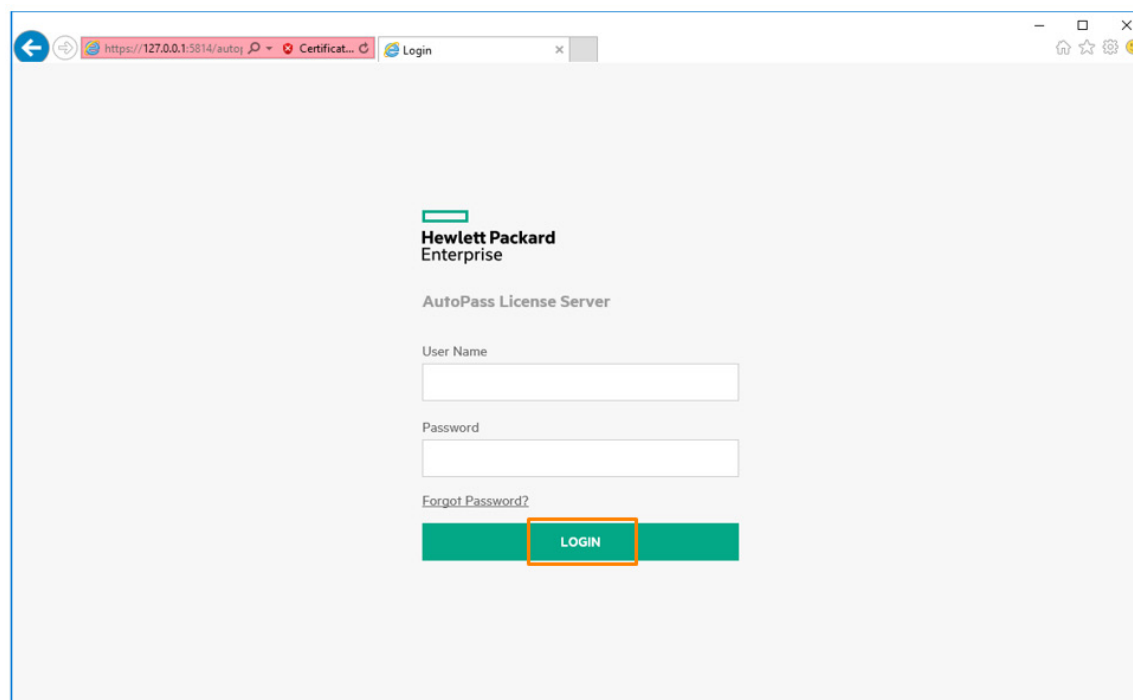
9. A Web browser will immediately open attempting to connect to the freshly deployed HPE APLS Server. Click **Continue to this website (not recommended)**.



NOTE

A certificate will need to be configured to remove this warning.

10. The **LOGIN** screen will be presented.



At this stage, the user can either log in to the primary HPE APLS or, if using redundancy mode, proceed to install the secondary HPE APLS. If a secondary HPE APLS will be installed, there is no need to log in to the primary HPE APLS at this time.



11. Proceed to repeat the installation process for the secondary HPE APLS, as *it is important to configure it FIRST*. The next section describes the configuration of the HPE APLS redundancy mode.

NOTE

It is important to configure the secondary HPE APLS before configuring the primary HPE APLS.

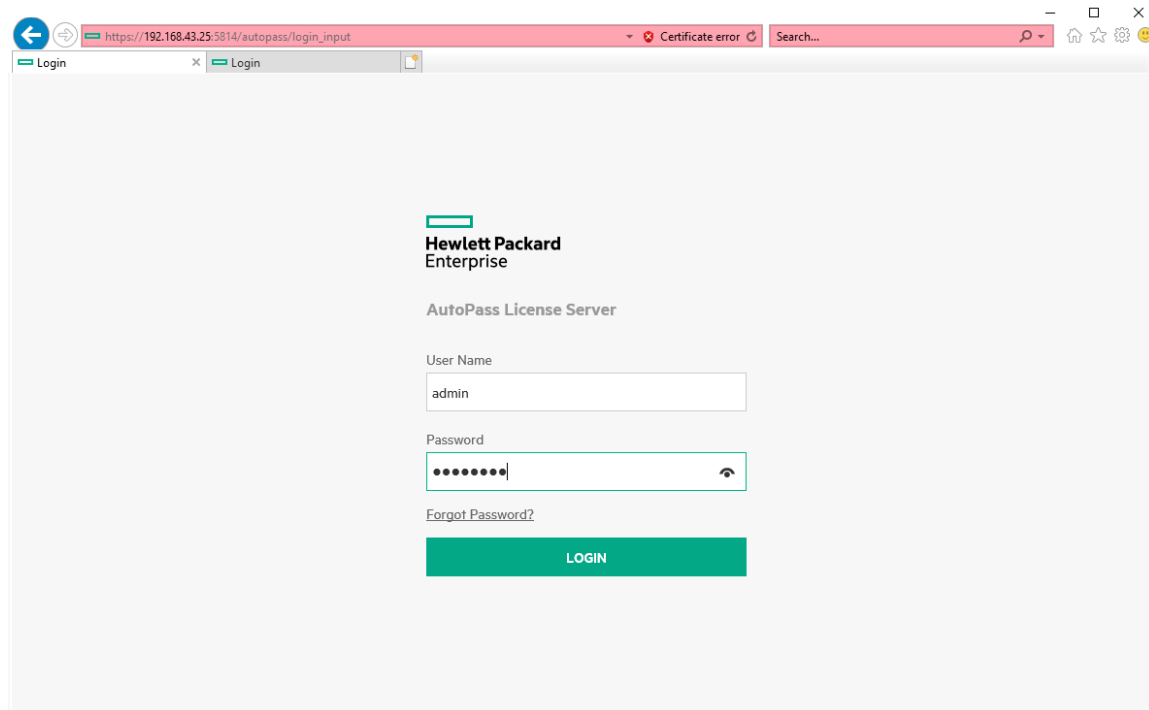
HOW TO CONFIGURE HPE AUTOPASS LICENSE SERVER REDUNDANCY

The following steps will guide you through how to configure the HPE APLS for redundancy.

Please note the following:

- To configure redundancy, you will require two instances of the HPE AutoPass License Server installed (one per server).
- Both servers must be running the same version of the HPE APLS.
- The redundancy will be configured into an Active (Primary), Passive (Secondary) model (one Active, one Passive).
- The Secondary (Passive) license server must be configured before the Primary (Active).
- Both the Primary and Secondary HPE APLS must be on the Tomcat port number configuration.

1. Connect to the Secondary (Passive) server using URL <https://<Host/IP address>:5814/autopass>, then log in to the HPE APLS.



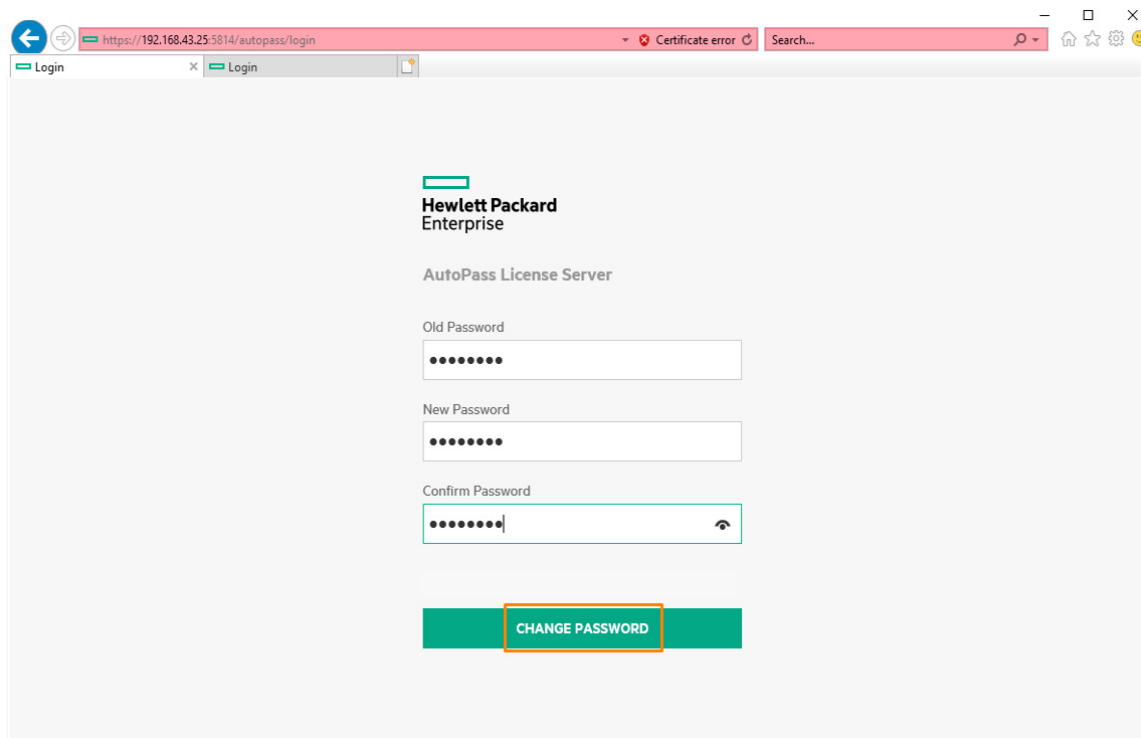
2. Enter the **Old Password** and the **New Password**, then click **CHANGE PASSWORD**.

NOTE

Default credentials are: User Name = admin, Password = password.

The APLS will then request a password change.





Hewlett Packard Enterprise

AutoPass License Server

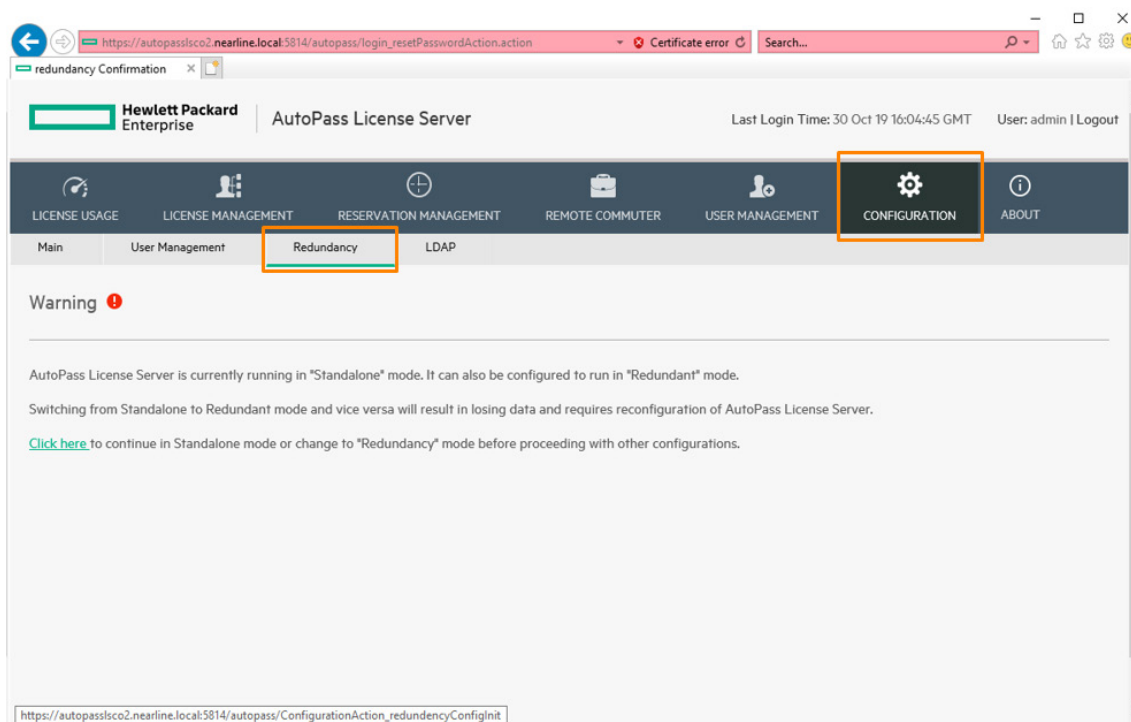
Old Password
.....

New Password
.....

Confirm Password
.....

CHANGE PASSWORD

3. Move the mouse over **CONFIGURATION** in the main menu, and select **Redundancy** from the sub-menu.



Hewlett Packard Enterprise AutoPass License Server

Last Login Time: 30 Oct 19 16:04:45 GMT User: admin | Logout

CONFIGURATION

Redundancy

Warning !

AutoPass License Server is currently running in "Standalone" mode. It can also be configured to run in "Redundant" mode. Switching from Standalone to Redundant mode and vice versa will result in losing data and requires reconfiguration of AutoPass License Server. [Click here](#) to continue in Standalone mode or change to "Redundancy" mode before proceeding with other configurations.

4. Select the **Enable Redundancy** and **Act as Secondary** check boxes, enter the **Local IP** address of the Secondary (Passive) server, then click **Save**.

NOTE

The **Save** process will reset the password to default. Log back in, and set the desired password.



Redundancy Configuration

Enable Redundancy ☒

Act as Secondary ☒

Local IP 192.168.43.25 select

Redundant IP

Redundant Port 9001

Protocol Type UDP

Protocol Port 7900

Save Cancel

Note: Switching from Standalone to Redundant mode and vice versa will result in losing data and requires reconfiguration of AutoPass License Server. This action will also reset the default admin user's password.

5. The following message is displayed. Click **OK**.

Message from webpage

All the present data will be removed. You will have an option to download the product licenses alone later. Do you still want to continue?

OK Cancel

6. Redundancy on the Secondary (Passive) server has now been configured. Next, the Primary (Active) server needs to be configured.

Redundancy Configuration

Redundancy configured successfully, please proceed to configure Primary Server.

Download Backed Up License's

Enable Redundancy ☒

Act as Secondary ☒

Local IP 192.168.43.25 select

Redundant IP

Redundant Port 9001

Protocol Type UDP

Protocol Port 7900

Save Cancel

Note: Switching from Standalone to Redundant mode and vice versa will result in losing data and requires reconfiguration of AutoPass License Server.

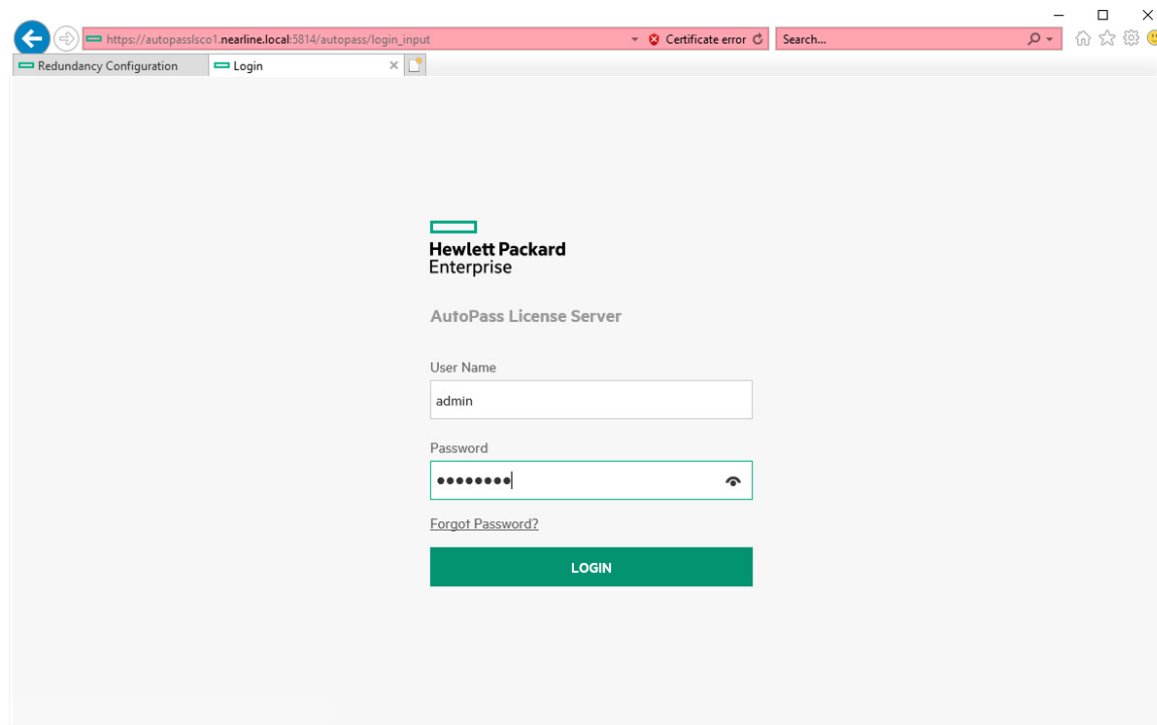


7. Connect to the Primary (Active) server using URL <https://<Host/IP address>:5814/autopass>, then log in to the HPE APLS.

NOTE

Default credentials are: User Name = admin, Password=password

The APLS will then request a password change.



Redundancy Configuration Login

[https://autopasssco1.nearline.local:5814/autopass/login_input](#) Certificate error Search...

Hewlett Packard Enterprise

AutoPass License Server

User Name

admin

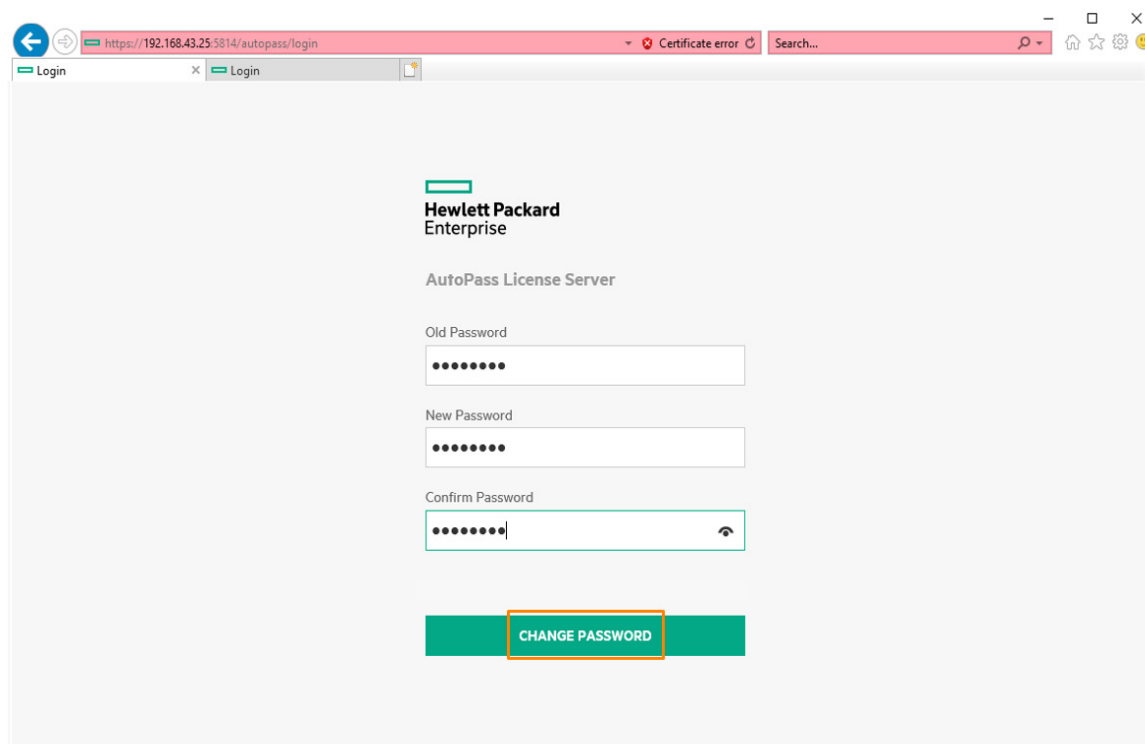
Password

.....

[Forgot Password?](#)

LOGIN

8. Enter the **Old Password** and the **New Password**, then click **CHANGE PASSWORD**.



Login Login

[https://192.168.43.25:5814/autopass/login](#) Certificate error Search...

Hewlett Packard Enterprise

AutoPass License Server

Old Password

.....

New Password

.....

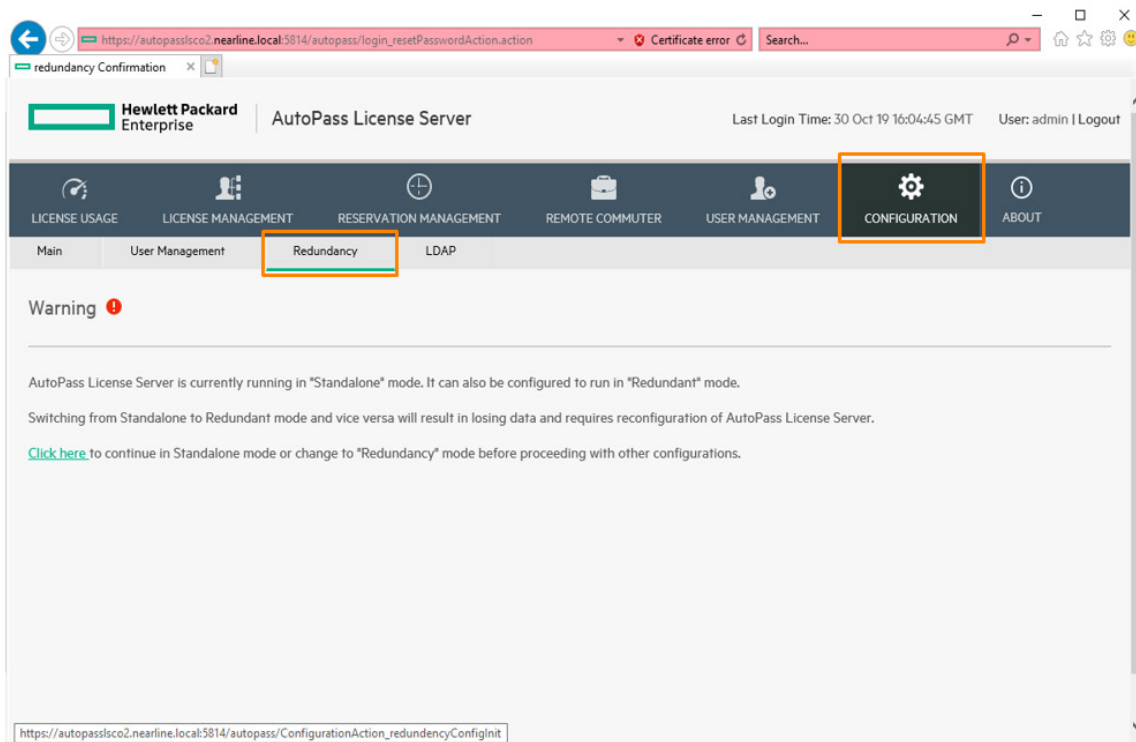
Confirm Password

.....

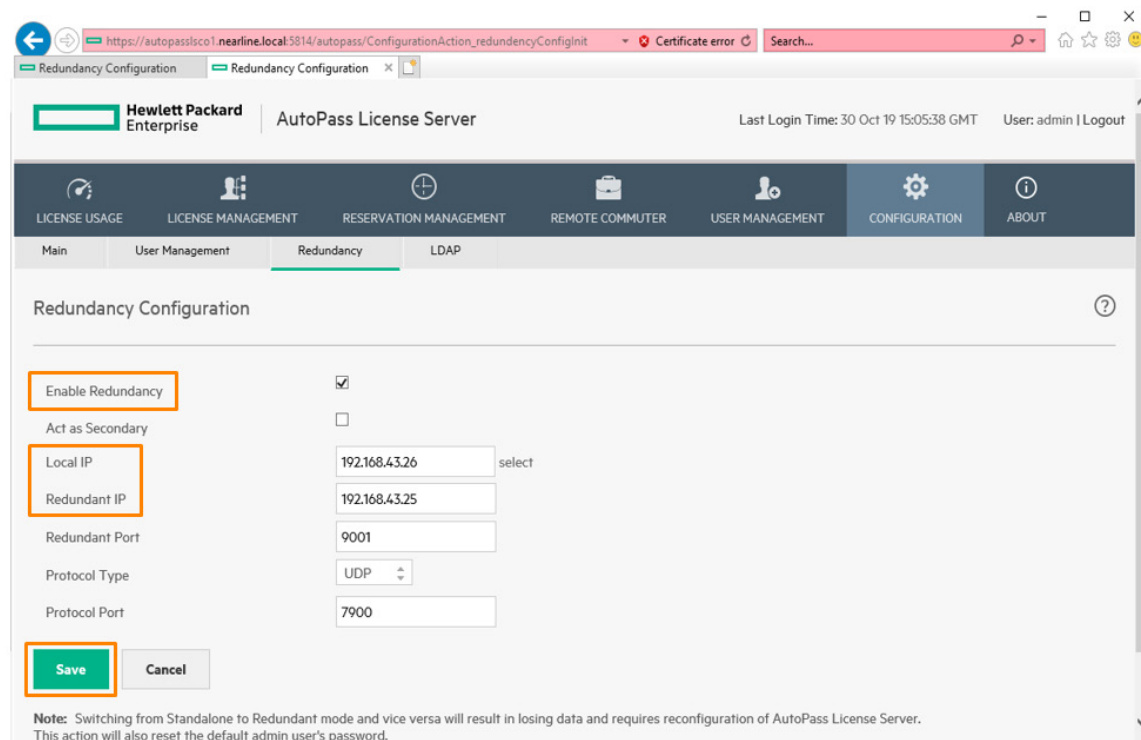
CHANGE PASSWORD



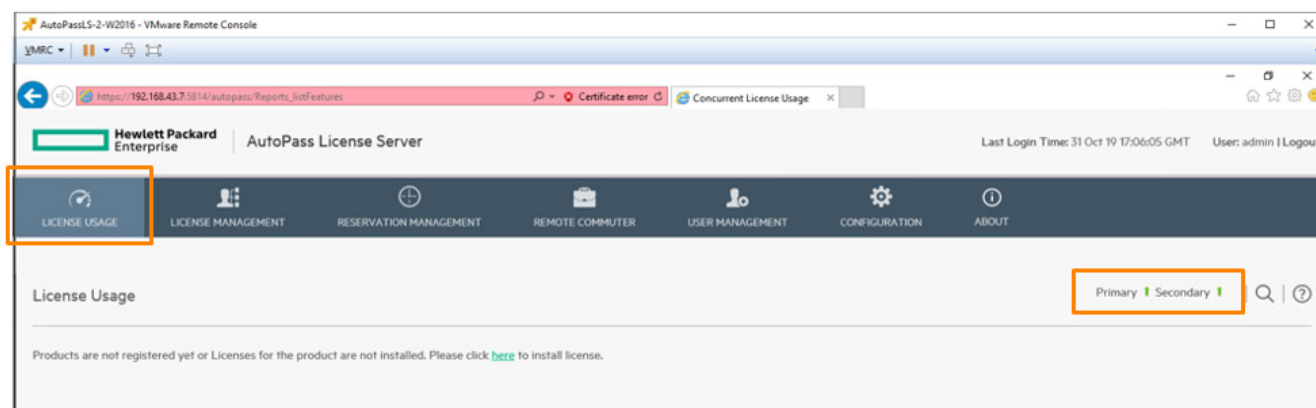
9. Hover over **CONFIGURATION**, and select **Redundancy** from the sub-menu.



10. Select the **Enable Redundancy** check box, enter the **Local IP** address of the Primary (Active) server and the **Redundant IP** address of the Secondary (Passive) server, then click **Save**.



11. Click **License Usage** from the main menu.



12. Review the right-hand side of the page to see the **Primary** and **Secondary** servers have a green arrow, representing that both servers are operational. Redundancy has now been successfully configured.

NOTE

From this point, if you try to log in to the Secondary server, it will automatically redirect you to the Primary server login page.

LICENSING THE HPE AUTOPASS LICENSE SERVER

At this stage, it will be necessary to provide Hewlett Packard Enterprise with the locking IDs for the Primary license server. The locking ID is displayed on the license management screen.

IMPORTANT

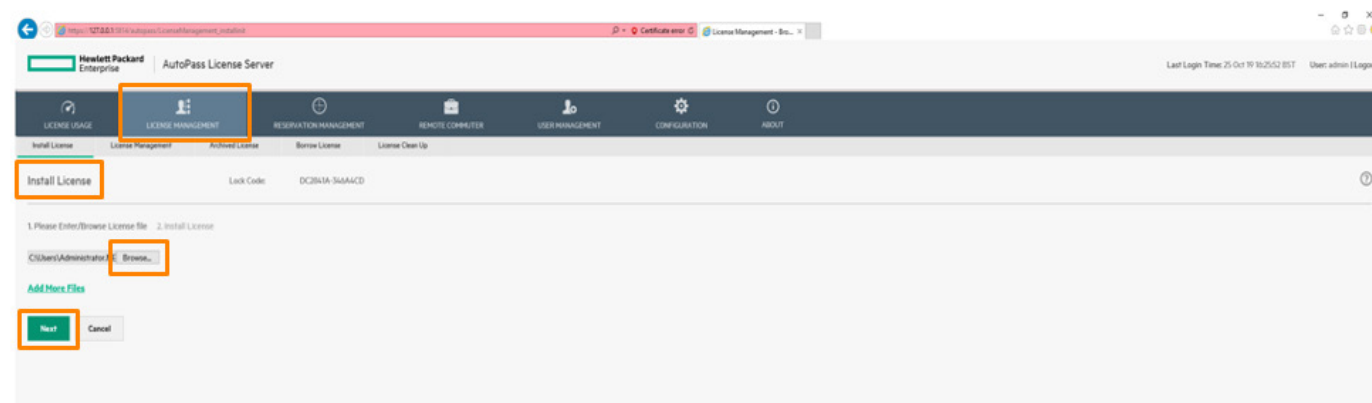
Any licenses installed on the Primary licensing server are automatically copied to the Secondary licensing server.

The base license MUST be installed first.

1. Open the HPE AutoPass License Server GUI, select **LICENSE MANAGEMENT**, and then select **Install License** from the menu. **Browse...** for the license file, and click **Next**.

NOTE

License files will have the extension ".dat."

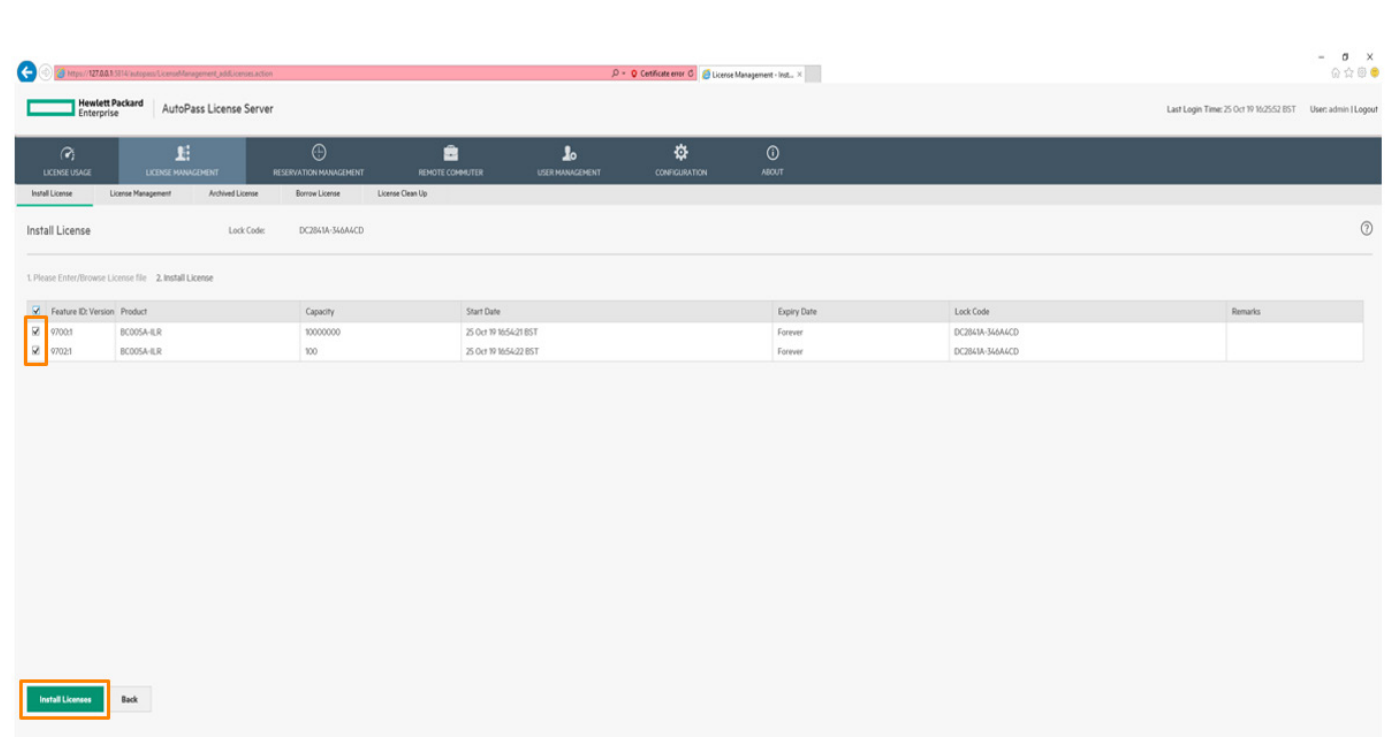


2. Make sure all License file check boxes are selected, then click **Install Licenses**.

NOTE

The base license has two entries:

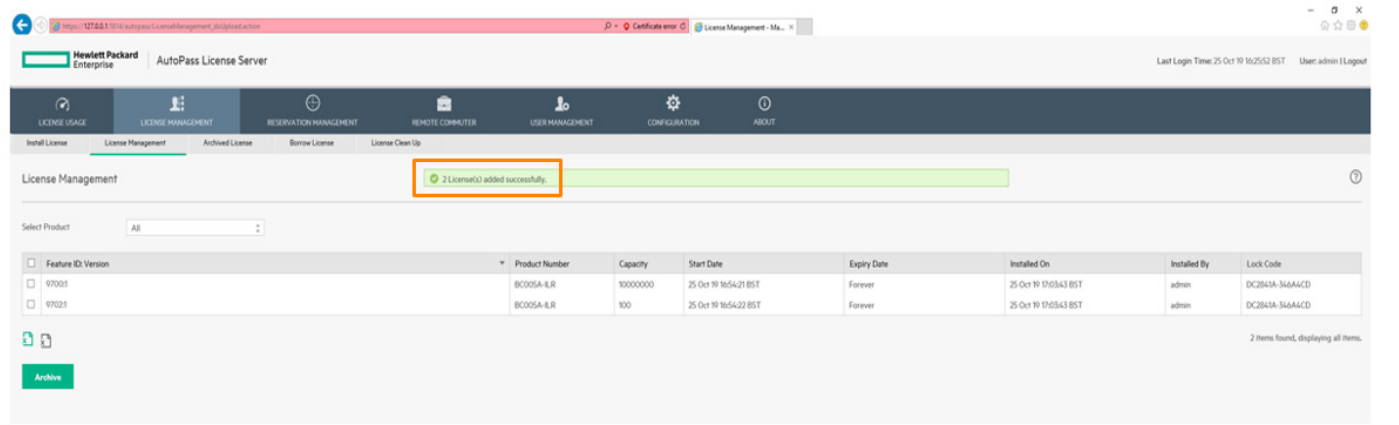
- 1. The number of HPE StoreOnce VSAs that can be attached, for example, 10000000.
- 2. The capacity in terabytes available for distribution, for instance, 100.



3. The base license has been successfully installed. Repeat this process for any additional licenses.

NOTE

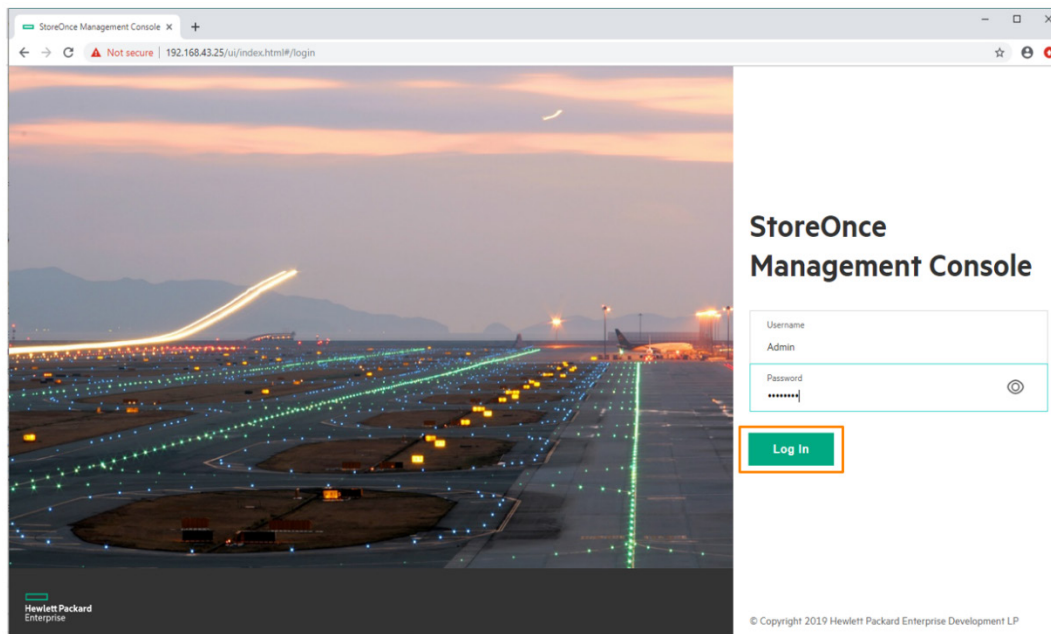
Additional capacity licenses are 100 TB stackable.



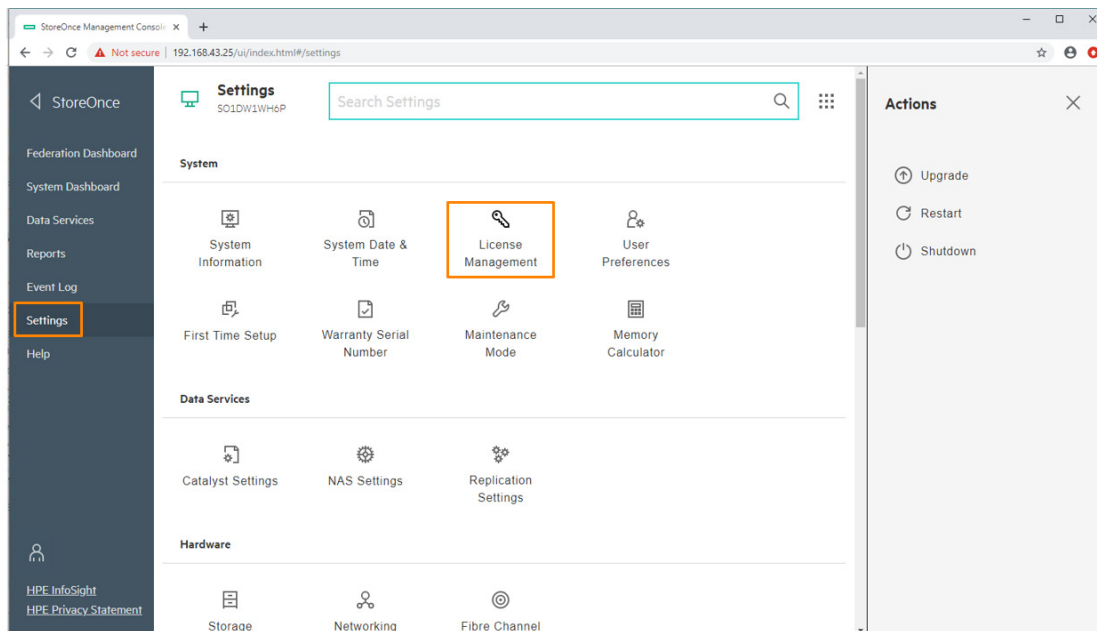
CONNECTING AN HPE STOREONCE VSA TO THE HPE AUTOPASS LICENSE SERVER

The following steps will guide you through how to connect an HPE StoreOnce VSA to the HPE AutoPass License Server. The base license must be installed onto the HPE AutoPass License Server before connecting an HPE StoreOnce VSA. The HPE StoreOnce VSA must be using a 90-day evaluation license.

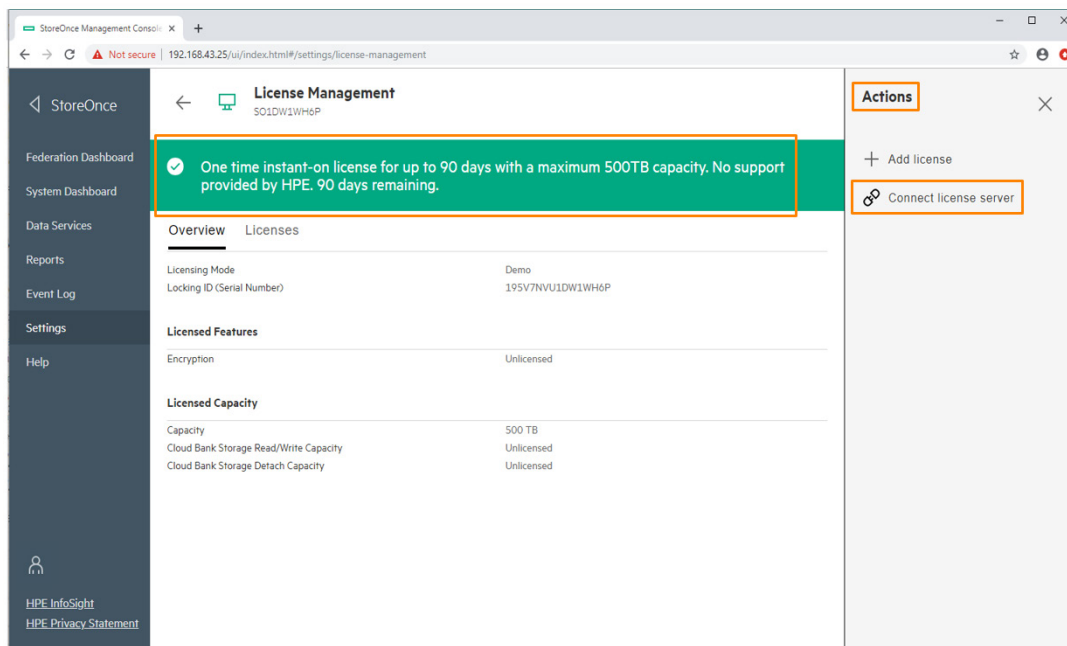
1. **Log In** to your HPE StoreOnce VSA.



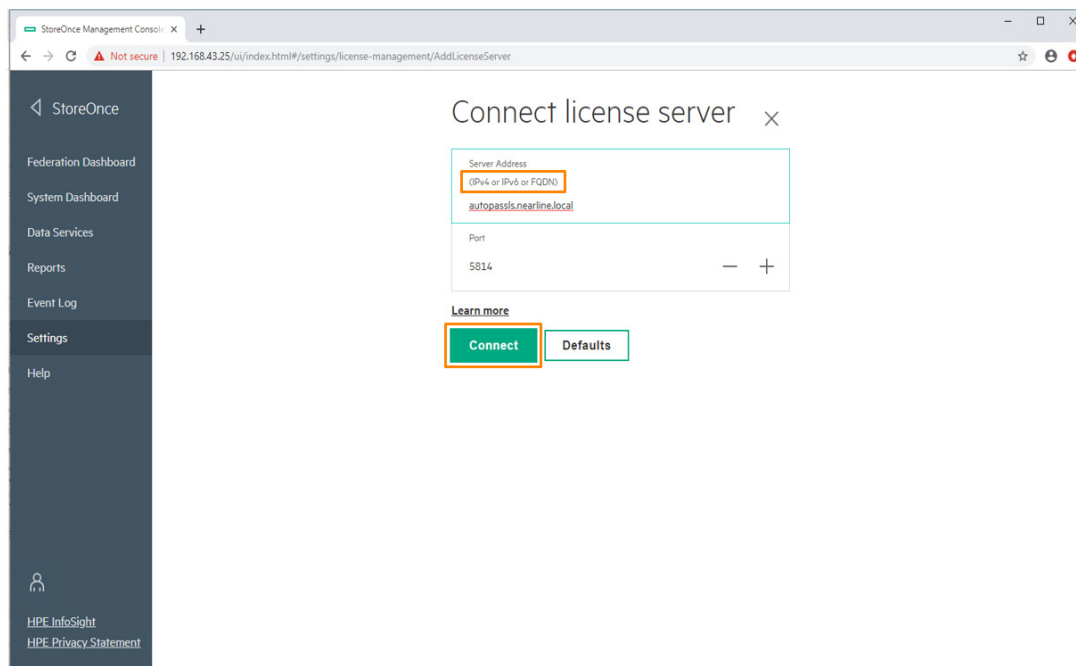
2. Select **Settings** from the side menu, then click **License Management**.



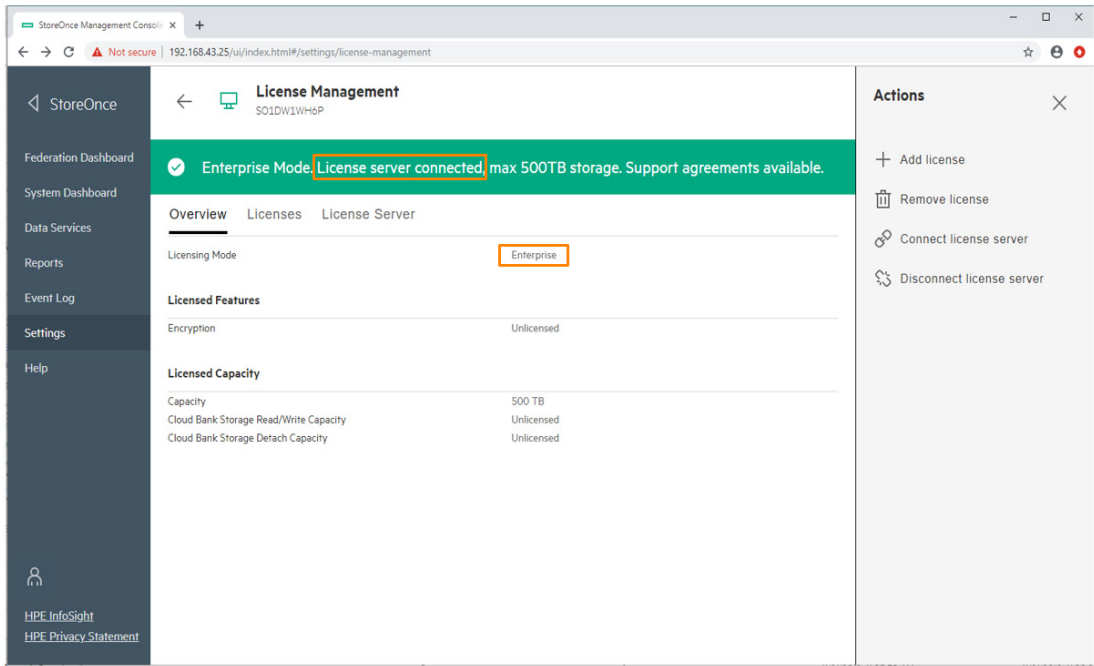
3. Check to see if the HPE StoreOnce VSA is using the 90 Day evaluation license. Next, click **Connect license server** from the **Actions** pane.



4. Enter the **IP** or **FQDN** of the HPE AutoPass License Server (HPE APLS uses port **5814**), then click **Connect**.



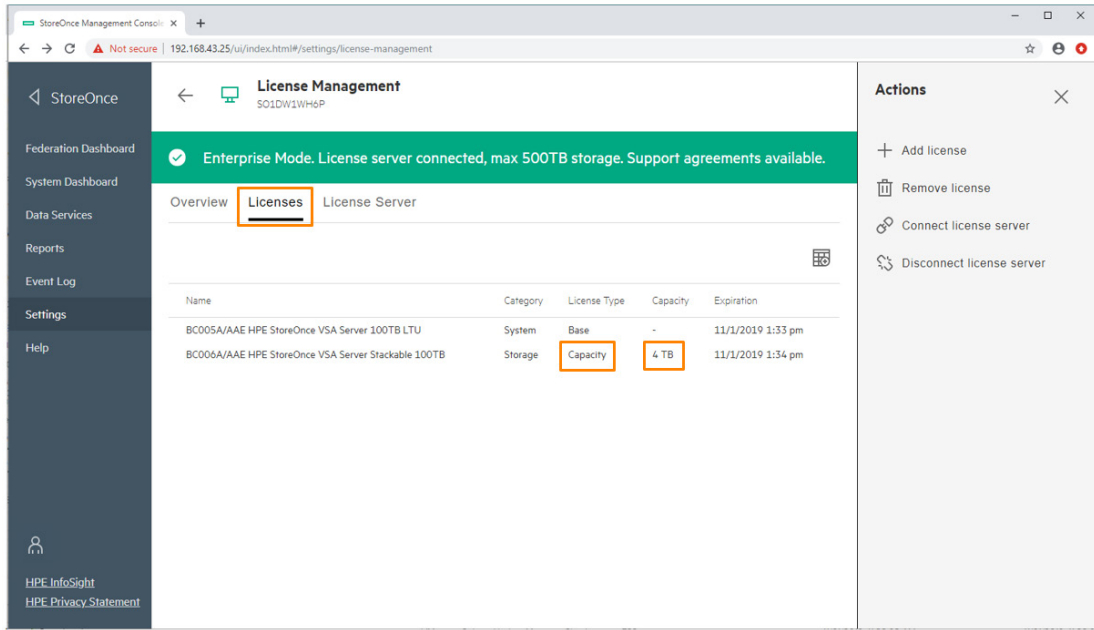
5. The HPE StoreOnce VSA has successfully connected to the license server, and the license has changed to a Licensing Mode of **Enterprise**.



6. Click **Licenses** from the sub-menu to view the currently installed licenses. As illustrated, the HPE AutoPass License Server has automatically allocated **4 TB** of **Capacity** to the connected HPE StoreOnce VSA.

NOTE

The 4 TB was the amount of storage configured on the HPE StoreOnce VSA before connecting to the HPE APLS. If the HPE StoreOnce VSA configured storage was 10 TB, the HPE StoreOnce VSA would immediately allocate 10 TB from the capacity license. Once connected, additional capacity in 1 TB increments can be added.



7. Log in to the HPE AutoPass License Server and select **License Usage** from the menu. This screen shows that the attached HPE StoreOnce VSA has taken **1** of the **10000000** licenses (number of HPE StoreOnce VSAs that can be connected), and 4 TB of capacity has been allocated from the 100 TB Stackable license (license capacity available).

The screenshot shows the HPE AutoPass License Server web interface. The top navigation bar includes 'LICENSE USAGE' (highlighted with an orange box), 'LICENSE MANAGEMENT', 'RESERVATION MANAGEMENT', 'REMOTE COMMUTER', 'USER MANAGEMENT', 'CONFIGURATION', and 'ABOUT'. The 'License Usage' section displays a table with columns: Feature ID: Version, Feature Description, Available, Live, Commuter, and Total. The table shows two entries for HPE StoreOnce VSA Server licenses. The 'Live' column for the first entry is highlighted with an orange box and contains the value '1'. The 'Total' column for the same entry is highlighted with an orange box and contains the value '10000000'. A 'Manage Commuter' button is visible at the bottom left of the table area.

Feature ID: Version	Feature Description	Available	Live	Commuter	Total
9700:1	BC005A/AAE HPE StoreOnce VSA Server 100TB LTU	9999999	1	0	10000000
9702:1	BC006A/AAE HPE StoreOnce VSA Server Stackable 100TB	96	4	0	100

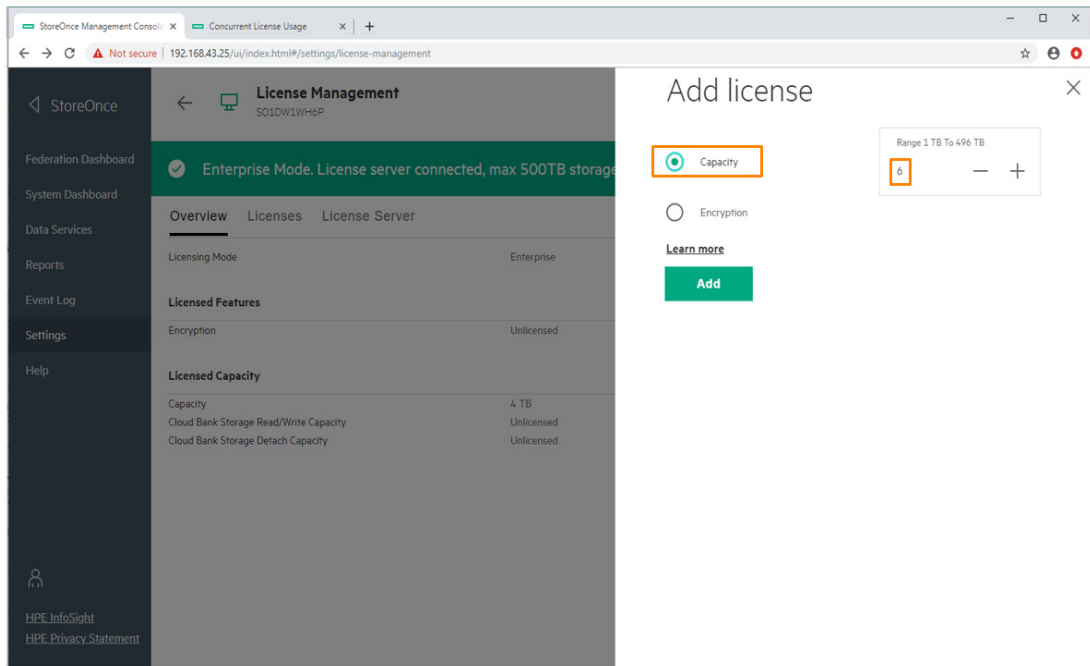
CONFIGURE ADDITIONAL OR ALTER CURRENT LICENSES ON AN HPE STOREONCE VSA

The following steps will guide you through how to add or alter a current license on an HPE StoreOnce VSA.

1. Log in to the HPE StoreOnce VSA, select **Settings**, choose License Management, and then click **Add license** from the **Actions** pane.

The screenshot shows the HPE StoreOnce VSA web interface. The left sidebar contains a navigation menu with 'Settings' highlighted by an orange box. The main content area is titled 'License Management' and shows a status message: 'Enterprise Mode. License server connected, max 500TB storage. Support agreements available.' Below this, there are tabs for 'Overview', 'Licenses', and 'License Server'. The 'Overview' tab is active, displaying 'Licensing Mode: Enterprise', 'Licensed Features: Unlicensed', and 'Licensed Capacity: 4 TB'. On the right side, there is an 'Actions' pane (highlighted with an orange box) containing a '+ Add license' button (also highlighted with an orange box) and other options like 'Remove license', 'Connect license server', and 'Disconnect license server'.

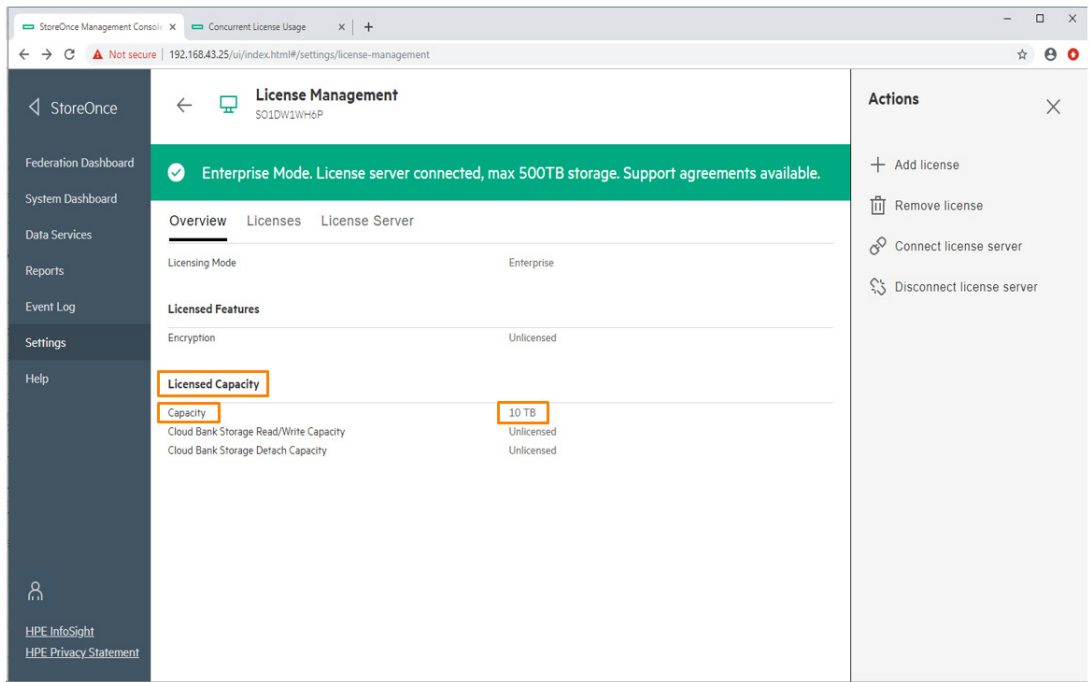
2. Select the license to alter or implement. In this example, the **Capacity** will be increased from 4 TB to 10 TB by adding an additional **6 TB**.



3. Wait until the **Capacity** (under **Licensed Capacity**) has changed to **10 TB**.

NOTE

You will still need to expand or add additional hard disks to the HPE StoreOnce VSA storage to utilize this capacity.



This concludes the setup of the HPE AutoPass License Server. Remaining HPE StoreOnce VSAs may now be attached with the desired license capacity.



RESOURCES AND ADDITIONAL LINKS

HPE StoreOnce VSA – Overview

hpe.com/hpesc/public/docDisplay?docId=emr_na-c03846846

HPE StoreOnce VSA Gen 4 Software 90-Day Evaluation Software (HPE Passport account required)

myenterpriselicense.hpe.com/cwp-ui/evaluation/BC002-63101/

HPE StoreOnce Compatibility Matrix (HPE Passport account required)

hpe.com/Storage/StoreOnceSupportMatrix

Protecting Data from Ransomware with HPE StoreOnce Catalyst

hpe.com/V2/getpdf.aspx/A00042003ENW.pdf

HPE Servers and systems

hpe.com/servers

HPE Data storage

hpe.com/storage

HPE Networking

hpe.com/networking

HPE Technology Consulting Services

hpe.com/us/en/services/consulting.html

To help us improve our documents, please provide feedback at hpe.com/contact/feedback.

LEARN MORE AT

hpe.com/us/en/storage/storeonce.html

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