

GETTING STARTED IN INSECLAB SYSTEM

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I. SETTING UP AND CONFIGURATION

1.1. Introduce the system

For research and studying purposes of researchers and students in UIT, this system is built. You can create virtual machines, network topologies, etc for our research.

The system includes a local domain: *inseclab.local*. We will use this domain and its subdomain to access resources of the system. You use some hosts below to access the system.

- vCenter: *vcenter.inseclab.local* (10.102.0.3)
- VMware host 1: *vmware162.inseclab.local* (10.102.0.251)

1.2. Configure hosts file

To access the system, you have to edit the *hosts* file in your computer instead of changing DNS.

In Windows system, run notepad as Administrator and open hosts file at path:

C:\Windows\System32\drivers\etc\hosts

Add new lines into *hosts* file.

10.102.0.3 vcenter.inseclab.local

10.102.0.251 vmware162.inseclab.local

```
# localhost name resolution is handled within DNS itself.
#       127.0.0.1       localhost
#       ::1            localhost

10.102.0.3      vcenter.inseclab.local
10.102.0.251    vmware162.inseclab.local
```

Save and close *hosts* file.

1.3. Import vCenter certificates

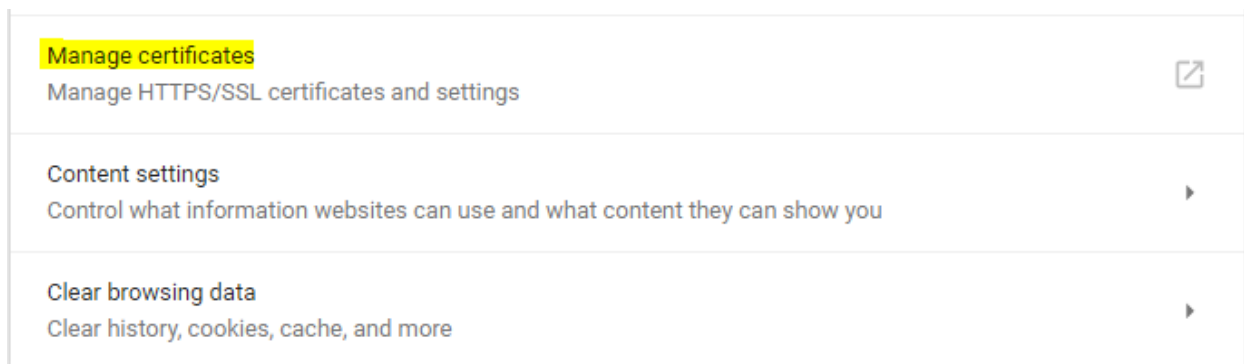
Open your web browser and enter: <https://vcenter.inseclab.local>

At the first time, you will see a alert for untrusted web site because vcenter use a self-signed certificates. So you need to download and import this certificates to your system.



Click *Download trusted root CA certificates* to download the certificates. After completing download, extract file and import to the browser.

In Google Chrome, go to *Settings* and click *Advanced*. And find *Manage certificates*.



In Certificates dialog, click Import and browse to cert file.

Certificates

×

Intended purpose:

<All>

▼

Personal

Other People

Intermediate Certification Authorities

Trusted Root Certification

◀

▶

Issued To	Issued By	Expiratio...	Friendly Name
-----------	-----------	--------------	---------------

Import...

Export...

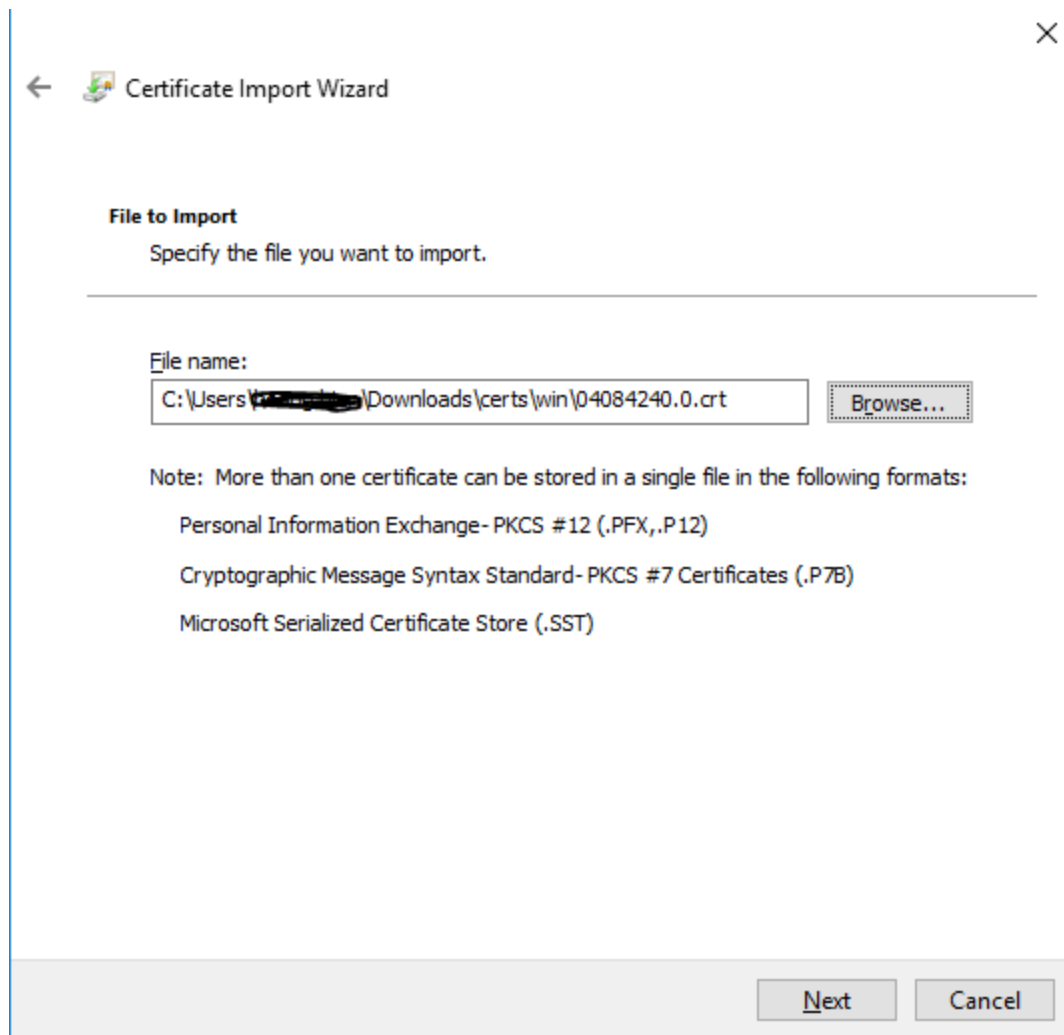
Remove

Advanced

Certificate intended purposes

View

Close



The image shows a Windows 'Certificate Import Wizard' dialog box. At the top, there is a back arrow, a small icon, and the title 'Certificate Import Wizard'. A close button (X) is in the top right corner. The main section is titled 'File to Import' with the instruction 'Specify the file you want to import.' Below this is a horizontal line. Under the line, the text 'File name:' is followed by a text box containing the path 'C:\Users\...Downloads\certs\win\04084240.0.crt'. To the right of the text box is a 'Browse...' button. Below the text box, there is a 'Note' section stating: 'Note: More than one certificate can be stored in a single file in the following formats:'. This is followed by three bullet points: 'Personal Information Exchange- PKCS #12 (.PFX, .P12)', 'Cryptographic Message Syntax Standard- PKCS #7 Certificates (.P7B)', and 'Microsoft Serialized Certificate Store (.SST)'. At the bottom right, there are two buttons: 'Next' and 'Cancel'.

← Certificate Import Wizard

File to Import
Specify the file you want to import.

File name:
C:\Users\...Downloads\certs\win\04084240.0.crt Browse...

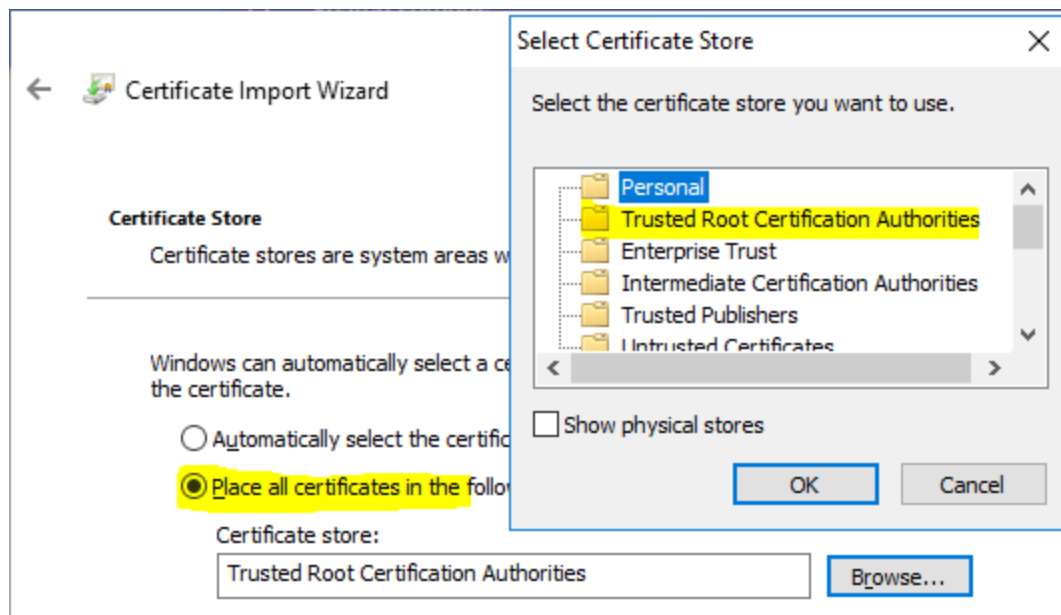
Note: More than one certificate can be stored in a single file in the following formats:

- Personal Information Exchange- PKCS #12 (.PFX, .P12)
- Cryptographic Message Syntax Standard- PKCS #7 Certificates (.P7B)
- Microsoft Serialized Certificate Store (.SST)

Next Cancel

Click Next to continue.

In this dialog, click *Browse* button, and select *Trusted Root Certification Authorities* and click OK.



Click Next and Finish.

Completing the Certificate Import Wizard

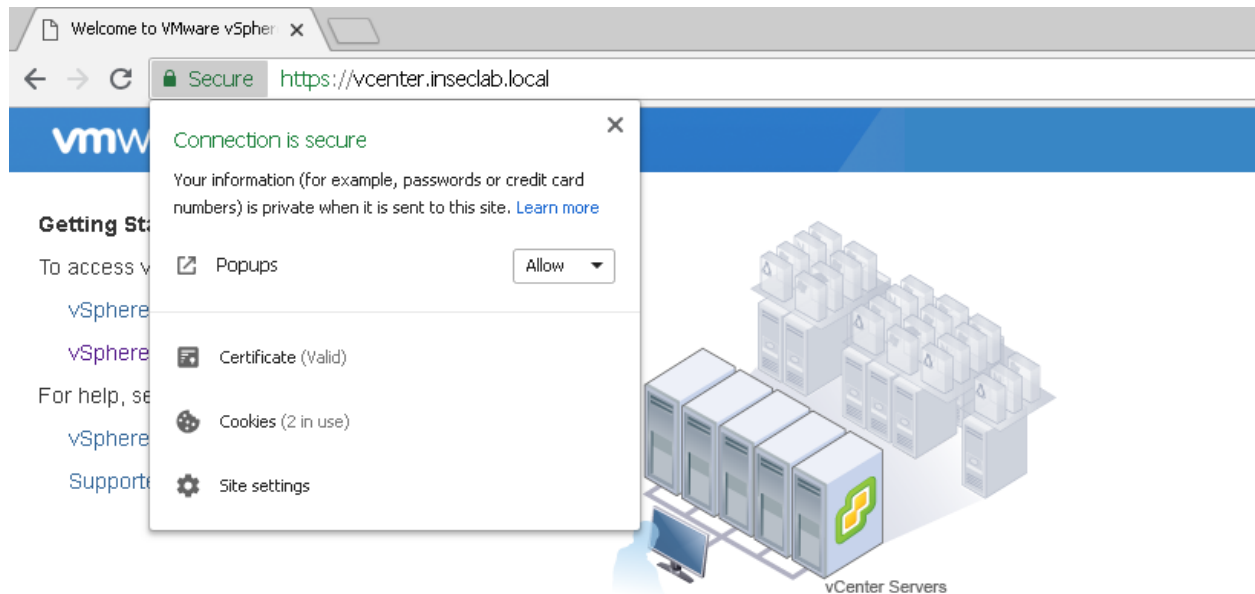
The certificate will be imported after you click Finish.

You have specified the following settings:

Certificate Store Selected by User	Trusted Root Certification Authorities
Content	Certificate
File Name	C:\Users\hoang hien\Downloads\certs\win\04084240

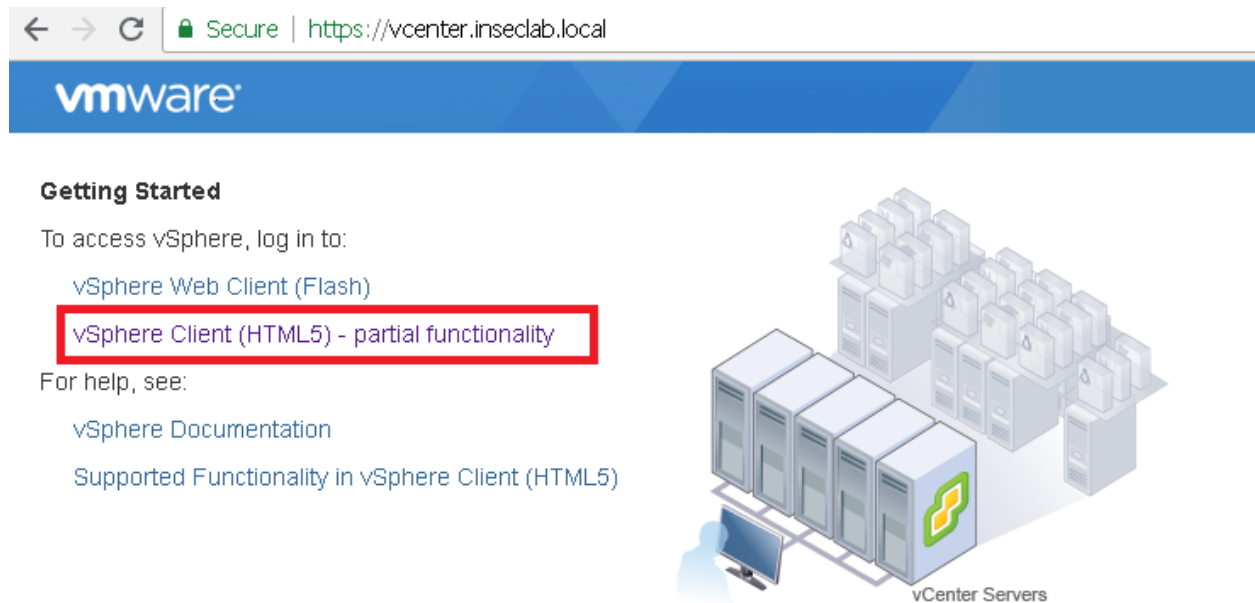
You finished to import the certificates. Close your web browser, reopen it and access <https://vcenter.inseclab.local>. In some cases, you need to clear history, cache of browser after importing certificates.

Now, you can see the web site connect is secure.



1.4. Access vCenter

In your browser, enter <https://vcenter.inseclab.local>, and click *vSphere Client (HTML5) - partial functionality*

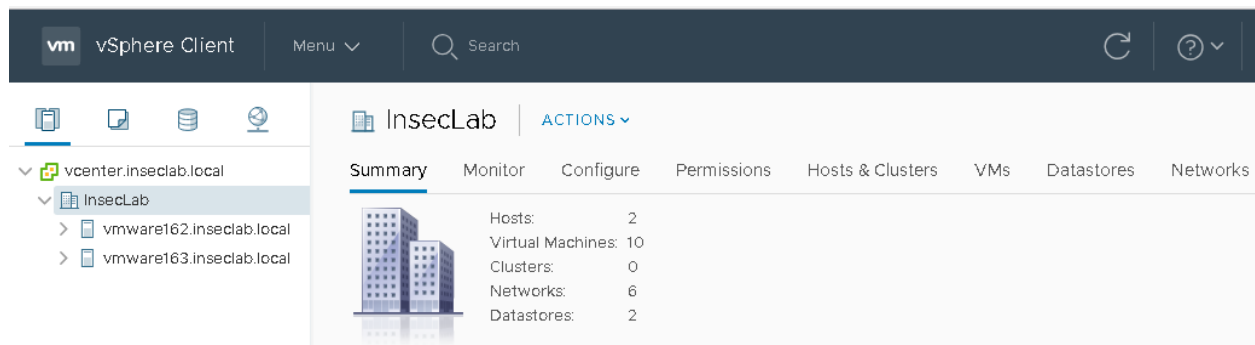


Use your account to login vCenter.



The image shows the VMware vCenter Single Sign-On login interface. It has a dark blue background. On the left, there are two input fields: 'User name:' with the value 'admin@insecrlab.local' and 'Password:' with a masked password '.....'. Below the password field is a checkbox labeled 'Use Windows session authentication'. A 'Login' button is at the bottom. On the right, the text 'VMware vCenter Single Sign-On' is displayed in white.

After you login in successfully, you can see vCenter interface like this.



1.5. Install VMware Remote Console

VMware Remote Console provides console access and client device connection to VMs on a remote host.

Go to <https://drive.google.com/drive/folders/11LCqMTNrGa39QMs7A5Qe4thCuXA5zfWd> and download VMware Remote Console and install it. VMware supports Linux, MacOS and Windows.

II. ACCESS YOUR LAB

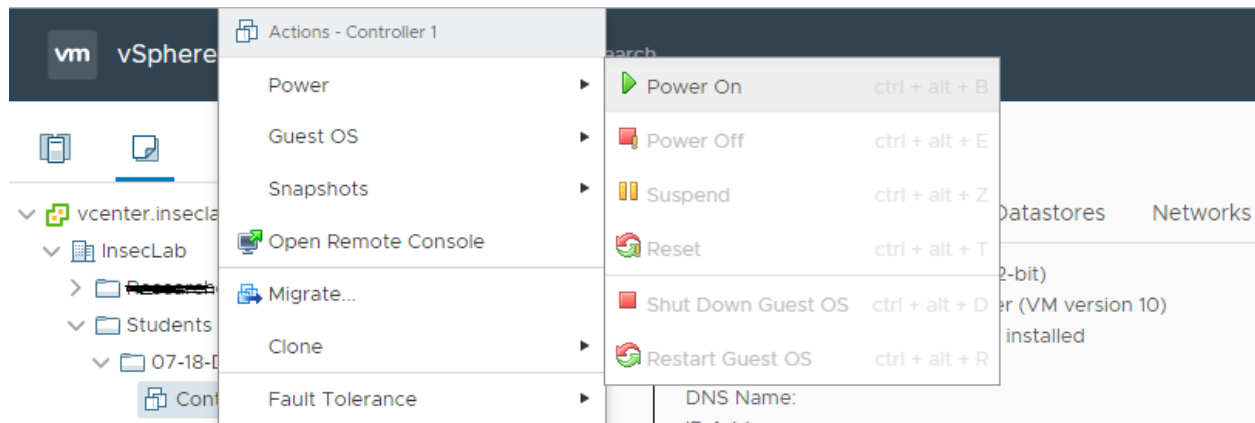
2.1 Access console for control

VMware vCenter supports 2 interface for controlling VMs: Web Console and Remote Console.

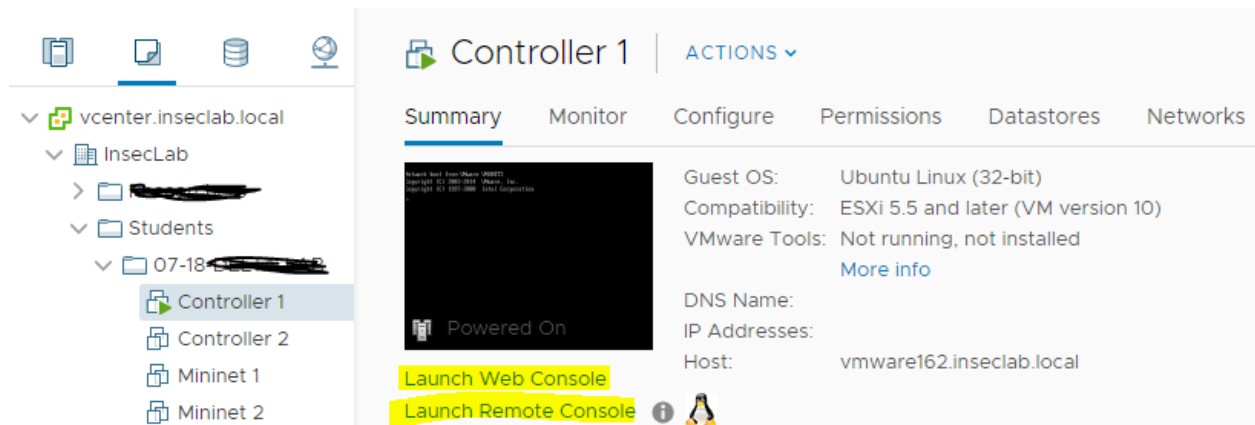
With the Web Console, you can access a virtual machine's desktop by launching a console to the virtual machine. From the console, you can perform activities in the virtual machine such as configure operating system settings, run applications, monitor performance, and so on.

VMware Remote Console provides access to virtual machines on remote hosts and performs console and device operations such as configuring operating system settings and monitoring the VM console for VMware vSphere. VMware Remote Console can also modify virtual machine settings such as RAM, CPU cores, and disks.

In vCenter, select a VM and press *Power On*.



Select *Lanch Web Console* or *Lanch Remote Console*.



In Remote Console, you can control some remote devices.

