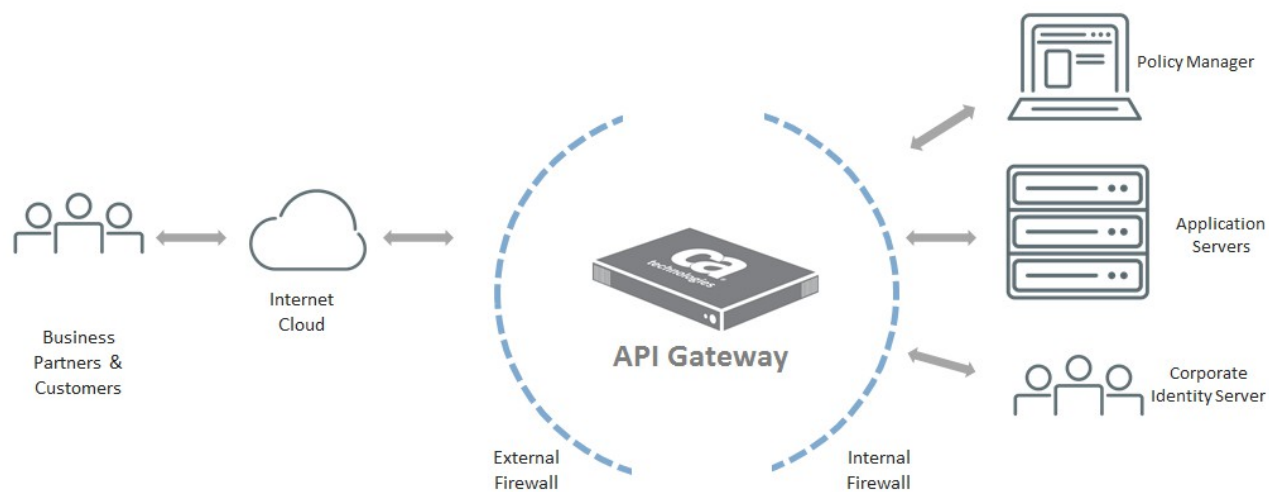


Configuring the API Combined Image

Description Stand-Up the Gateway Virtual Machine and connect it to the Policy Manager. This is an ideal guide to use if you wish to locally configure a Gateway and Policy Manager on your machine. It is also used when receiving any instructor led training. There are 5 unique stages to this process, detailed below. There is also a **cheat sheet** at the end of this guide should you wish to print for reference.

Time 30 minutes

Stage	Description
1	Setup your Virtual Machine. This allows you to access an instance of the Gateway. This step assumes you have access to the Gateway .ova file and you have downloaded various tools to support your training, including VMWare Player, SoapUI, WinSCP, and Putty.
2	Configure your Gateway Settings. This allows you to configure network settings and other preferences like time zones.
3	Edit the Local Host and Create your Gateway Database. This allows you to create a database.
4	Install the Policy Manager and the Gateway License. The Policy Manager is the GUI where you use services and assertions to write policies. The license key 'unlocks' various features of the Gateway.
5	Accessing API Developer Portal. This allows you to access the CA API Developer Portal.



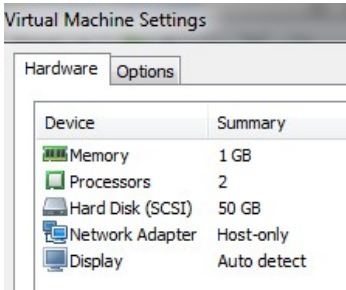
Stage 1 – Setup your Virtual Machine

Description The VM allows you to access an instance of the Gateway. This step assumes you have downloaded the latest Combined Image .ova file as well as a number of supporting tools, outlined below. Note: you must have ‘service virtualization’ enabled on your system’s BIOS also.

Details

- VMWare Player
- Oracle Virtual Box

Process Overview

Step	Description for Installing on VMware Workstation
Import your Image	<ol style="list-style-type: none"> 1. From the start menu, open the VMWare program and select the option titled Open a Virtual Machine. 2. Browse to and select the Gateway .ova from your local or shared drive. 3. Assign a name for your machine and click <import>. Wait for the import to complete. This may take several minutes. 
Edit your Virtual Machine Settings	<ol style="list-style-type: none"> 1. Once the .ova is imported, it will appear in the menu on the left side. Select it, then choose <edit virtual machine settings>. 2. There are 4 edits you need to make. They are: <ul style="list-style-type: none"> Edit 1: remove the CD/DVD Edit 2: remove the Floppy Edit 3: Edit the memory from 2GB (default) to 2GB Edit 4: Change the Network Adaptor settings from Bridget to NAT 3. Click <OK> once you see the following settings.

Process Overview

Step	Description for installing on Oracle VirtualBox
Import your Image	<ol style="list-style-type: none">1. From the start menu, open the Virtualbox program and select the option titled File and then Import Appliance.2. Browse to and select the Combined Image .ova from your local or shared drive and then press Next.3. Select Import without changing any of the Virtual Appliance Configuration. <p><i>*You do not have to change any of the default network settings in the Virtual Box Network Settings.</i></p>

Stage 2 – Configure your Networking and Time Zone Settings

Description The work you do in this stage allows you to configure your VM network and set system preferences like time-zone, name server etc. The steps you perform in this stage only need to be performed once.

Process Overview

Step	Description
Login to the Gateway for the first time.	<ol style="list-style-type: none"> From your VM Player / VirtualBox, select the machine you recently edited, then choose the option titled Play Virtual Machine. <p><i>Note: Once the script has run, you will now have two machines running. Your regular laptop/desktop, and the Virtual Machine. To toggle between the two, press the ctrl + alt key.</i></p> A login prompt will appear. <ul style="list-style-type: none"> Localhost login (explore login): ssgconfig Default/Current UNIX Password: CAdemo123
The Main Menu	<pre> 1) Configure system settings 2) Display Layer 7 Gateway configuration menu 3) Use a privileged shell (root) 4) Change the Master Passphrase 5) Display Remote Management configuration menu 6) Manage HSM 7) Display Enterprise Service Manager configuration menu 8) Display Patch Management menu 9) Display Log Viewing menu R) Reboot the SSG appliance (apply the new configuration) X) Exit (no reboot) Please make a selection: _ </pre>
Configure Networking Settings	<ol style="list-style-type: none"> Select option 1, then press <enter> Select option 1 again, then press <enter> Select option 1 for the eth0 option, then press <enter> Press <enter> to accept the default setting of enabling interface on boot (y) Press <enter> to accept the default setting of configuring IPv4 networking (y) Press <enter> to confirm the default protocol of dhcp Press <enter> to confirm the default dhcp hostname explore.apim.ca

	<ol style="list-style-type: none"> 8. Press <enter> to accept the default of (n) to not configure IPv6 networking 9. Type <n> at the next prompt as you do not want to enter another network interface. Press <enter> 10. Type <n> then <enter> to confirm that you would not like to change the current default IPv4 gateway 11. Press <enter> to confirm the fully qualified hostname explore.apim.ca. 12. Press <enter> for no name server. 13. Press <enter> for no search domain.
Configure Time Zone Settings	<ol style="list-style-type: none"> 1. Type <y> to change the current time zone configuration. Press <enter> 2. Select your first time zone option and press <enter> 3. Select your more localized time zone option and press <enter> 4. Type <n> to change current time servers configuration. Press <enter>. <ol style="list-style-type: none"> a. Type <y> to accept a comma separate list. Press <enter>. <i>Wait for changes.</i> 5. Type <y> then <enter> to accept the changes and continue. Type <Quit> to discard all changes and restart the configuration. 6. Select <x> at the configure system settings menu. Press <enter>. <i>You will return to the main menu.</i>
Reboot SSG Appliance (with new configuration).	Type R to Reboot the SSG appliance with the new configuration.

Stage 3 – Configure Localhosts

Description At the root menu, in the vi tool, you will configure your localhost.

Process Overview

Step	Description
Get to root menu	<ol style="list-style-type: none"> From the main system menu, select option <3> then press <enter> <ul style="list-style-type: none"> Default / Current Password: CAdemo123 <p><i>Tip:</i> If you are not familiar with vi, there is a list of common commands located on your cheat sheet, and in appendix A of this configuration guide.</p> Finding your IP address. <ol style="list-style-type: none"> Type ifconfig Option 1: Ethernet <ol style="list-style-type: none"> Pull the inet addr from the eth0. Option 2: WiFi <ol style="list-style-type: none"> Pull the inet addr from the wlan0 <p>Write this down on your cheat sheet and at this next prompt in the configuration process. Press <enter>.</p> At the root@ prompt, type vi /etc/hosts. Then press <enter>. <p><i>Note:</i> there is a space between vi and the /etc/hosts</p>
Enter your IP Address and FQDN into vi	<ol style="list-style-type: none"> Move your mouse to the empty line of text in vi. To do this, press the lowercase 'o' a couple of times. Once at the empty line, press 'l' type in your IP address. Follow it with a couple of spaces, then type in hostname explore.apim.ca. Hit the <esc> key, then <:wq> then press <enter> to save your changes Type <exit> to get to the main menu Type <r> to reboot with the new configuration. Type <y> to confirm reboot. <i>Wait while the script runs.</i>

Stage 4 – Install and License the Policy Manager

Description The Policy Manager is the GUI that controls the actions within the Gateway. The Gateway is in ‘running’ status, but relies on the policies you write in the Policy Manager to tell it what to do during runtime requests.

Process Overview

Step	Description
Install the Policy Manager	<ol style="list-style-type: none"> 1. Locate the most recent Policy Manager .exe file from your instructor or local or shared folder. Run the program. 2. If it is the <i>first time</i> you are running this program, you will need to agree to the license agreement. 3. Read through and select “I Agree” and follow the rest of the setup prompts.
Login to the Policy Manager	<ol style="list-style-type: none"> 1. From the start menu, select the API Gateway Policy Manager 2. Enter the User Name and Password suggested for you in Step 2. It should be on your cheat sheet and is typically admin/CAdemo123 3. Leave the Client Certificate section blank 4. In the Gateway section, type in your IPv4. This should be on your cheat sheet. 5. Select <OK> at the certificate warning.
License the Gateway	<ol style="list-style-type: none"> 1. Select <yes> to install a license if this is your <i>first time</i> logging into the Policy Manager. 2. Select <install license> at the prompt 3. Browse to and select the .xml license you would have received from your instructor or support. Note: if you received a license file via email with a .lic extension, you will need to save it, rename to a .zip file, and then extract the .zip file and import the license as an .xml format only. 4. The license should show as ‘valid’.

Stage 5 – Accessing API Developer Portal

How to Access the Developer Portal.

Enter the **IP address** of the Gateway in the browser to access the API Developer Portal.

Administrator Username: **admin**

Password: **CAdemo123**

Cheat Sheet

Description Use this to record information that you will refer to throughout the training and configuration. Please use the default credentials if they are listed. You can also choose to print only this page for reference.

Gateway Credentials	
Localhost Login:	ssgconfig
Default Password	CAdemo123
Root username	root
Root default Password	CAdemo123
Network Setup and Configuration	
Your server IPv4 address	
Your fully qualified hostname (FQDN)	
Database Credentials	
My SQL database admin user	root
My SQL database admin password	CAdemo123
Cluster hostname	
Cluster passphrase	CAdemo123
Policy Manager Credentials	
SSM Username (Policy Manager Username)	admin
SSM Password (Policy Manager Password)	CAdemo123

vi commands

- Insert: <i>
- Quit: <esc> <:q> <enter>
- Save & Quit: <esc> <:wq> <enter>
- Next line: <o> (lower case 'o')

Unix Commands

- **ifconfig** retrieves the system IP settings and configuration
- **cd** changes directories for installing the backend services
- **cp** copy files or directories from one location to another
- **tar** to untar files
- **su** to switch users
- scrolling command line shift + PgUp/PgDn
- pressing tab while on command line will complete a word in unique, or give all suggestions on with the partial that's typed
- Pressing **arrow keys up and down** will recall a single command commands
- **History** will print all commands used in that session.
- **ping** will run forever ... use ctrl + c to stop!
- **man** [command] – access the manual page for a command