

CCNA Security

Lab – Instructor Lab Using ASA 5505

Topology



Note: ISR G1 devices use FastEthernet interfaces instead of GigabitEthernet interfaces.

Device	Interface	IP Address	Subnet Mask	Default Gateway	Switch Port
D1	G0/0	209.165.200.225	255.255.255.248	N/A	ASA E0/0
RI	S0/0/0 (DCE)	10.1.1.1	255.255.255.252	N/A	N/A
DO	S0/0/0	10.1.1.2	255.255.255.252	N/A	N/A
R2	S0/0/1 (DCE)	10.2.2.2	255.255.255.252	N/A	N/A
Da	G0/1	172.16.3.1	255.255.255.0	N/A	S3 F0/5
RJ	S0/0/1	10.2.2.1	255.255.255.252	N/A	N/A
	VLAN 1 (E0/1)	192.168.1.1	255.255.255.0	NA	S2 F0/24
ASA	VLAN 2 (E0/0)	209.165.200.226	255.255.255.248	NA	R1 G0/0
	VLAN 3 (E0/2)	192.168.2.1	255.255.255.0	NA	S1 F0/24
PC-A	NIC	192.168.2.3	255.255.255.0	192.168.2.1	S1 F0/6
PC-B	NIC	192.168.1.3	255.255.255.0	192.168.1.1	S2 F0/18
PC-C	NIC	172.16.3.3	255.255.255.0	172.16.3.1	S3 F0/18

Objectives

Part 1: Initialize and Reload Network Devices

- Initialize the router and reload.
- Enable the security technology package license.
- Initialize the switch and reload.
- Initialize the ASA.

Part 2: Java Settings for PCs if Necessary

- Enable a secure HTTP server.
- Create a user account with privilege level 15.
- Configure SSH and Telnet access for local login.

Part 3: Access a Cisco Router Using a Mini-USB Console Cable

- Setup the physical connection with a mini-USB cable.
- Verify that the USB console is ready.
- Enable the COM port.

Part 4: Download and Install the AnyConnect Client Software Package

- Download the AnyConnect Secure Mobility Client software from cisco.com.
- Upload AnyConnect Secure Mobility Client to ASA 5505.

Background/Scenario

Part 1 of this instructor lab provides the steps for initializing devices back to their default settings. Part 2 of this lab provides the steps necessary to set Java settings on the PC hosts. Part 3 of this lab provides optional information on how to download, install, and use the Cisco USB driver on a Windows PC.

Required Resources

- 1 ASA 5505 (OS version 9.2(3), ASDM version 7.4(1), and Base license or comparable)
- 3 routers (Cisco 1941 with Cisco IOS Release 15.4(3)M2 image with a Security Technology package license)
- 3 switches (Cisco 2960 or comparable) (not required)
- 3 PCs (Windows 7 or Windows 8.1, with SSH client software installed)
- Serial and Ethernet cables, as shown in the topology
- Console cables to configure Cisco networking devices

Part 1: Initialize and Reload Network Devices

Task 1: Initialize the Router and Reload.

Step 1: Connect to the router.

Console into the router and enter privileged EXEC mode using the **enable** command.

```
Router> enable
Router#
```

Step 2: Erase the startup configuration file from NVRAM.

Type the erase startup-config command to remove the startup configuration from NVRAM.

```
Router# erase startup-config
Erasing the nvram filesystem will remove all configuration files! Continue? [confirm]
[OK]
Erase of nvram: complete
Router#
```

Step 3: Reload the router.

Issue the **reload** command to remove old configurations from memory. When prompted to proceed with reload, press **Enter** to confirm the reload. Pressing any other key will abort the reload.

```
Router# reload

Proceed with reload? [confirm]

*Nov 29 18:28:09.923: %SYS-5-RELOAD: Reload requested by console. Reload Reason:

Reload Command.
```

You may receive a prompt to save the running configuration prior to reloading the router. Respond by typing **no** and press **Enter**.

```
System configuration has been modified. Save? [yes/no]: no
```

Step 4: Bypass the initial configuration dialog.

After the router reloads, you are prompted to enter the initial configuration dialog. Enter **no** and press **Enter**.

Would you like to enter the initial configuration dialog? [yes/no]: no

Step 5: Terminate the autoinstall program.

You will be prompted to terminate the autoinstall program. Respond yes and then press Enter.

```
Would you like to terminate autoinstall? [yes]: yes
Router>
```

Task 2: Initialize the Switch and Reload.

Step 1: Connect to the switch.

Console into the switch and enter privileged EXEC mode.

```
Switch> enable
Switch#
```

Step 2: Determine if there have been any VLANs created.

Use the **show flash** command to determine if any VLANs have been created on the switch.

```
Switch# show flash
```

```
Directory of flash:/
2 -rwx 1919 Mar 1 1993 00:06:33 +00:00 private-config.text
3 -rwx 1632 Mar 1 1993 00:06:33 +00:00 config.text
4 -rwx 13336 Mar 1 1993 00:06:33 +00:00 multiple-fs
5 -rwx 11607161 Mar 1 1993 02:37:06 +00:00 c2960-lanbasek9-mz.150-2.SE.bin
6 -rwx 616 Mar 1 1993 00:07:13 +00:00 vlan.dat
32514048 bytes total (20886528 bytes free)
```

```
Step 3: Delete the VLAN file.
```

Switch#

a. If the vlan.dat file was found in flash, delete the file.

Switch# delete vlan.dat

```
Delete filename [vlan.dat]?
```

- b. You will be prompted to verify the file name. At this point, you can change the file name or press **Enter** if you have entered the name correctly.
- c. When you are prompted to delete this file, press **Enter** to confirm the deletion. Pressing any other key will abort the deletion.

```
Delete flash:/vlan.dat? [confirm]
Switch#
```

Step 4: Erase the startup configuration file.

Use the **erase startup-config** command to erase the startup configuration file from NVRAM. When prompted to remove the configuration file, press **Enter** to confirm the removal. Pressing any other key will abort the operation.

```
Switch# erase startup-config
Erasing the nvram filesystem will remove all configuration files! Continue? [confirm]
[OK]
Erase of nvram: complete
Switch#
```

Step 5: Reload the switch.

Reload the switch to remove old configuration information from memory. When prompted to reload the switch, press **Enter** to proceed with the reload. Pressing any other key will abort the reload.

Switch# **reload** Proceed with reload? [confirm]

Note: You may receive a prompt to save the running configuration prior to reloading the switch. Type **no** and press **Enter**.

System configuration has been modified. Save? [yes/no]: no

Step 6: Bypass the initial configuration dialog.

After the switch reloads, you should see a prompt to enter the initial configuration dialog. Type **no** at the prompt and press **Enter**.

```
Would you like to enter the initial configuration dialog? [yes/no]: no Switch>
```

Part 2: Java Settings on PCs

The next-generation Java Plug-in must be enabled and the security setting must be set to medium for the CCP configuration of IPS. To support CCP configuration of IPS and set the Java heap to 256 MB, the PC should be running Java JRE version 6 or newer. This is done using the runtime parameter –Xmx256m. The latest JRE for Windows can be downloaded from Oracle Corporation at http://www.oracle.com/.

Note: CCP is no longer used with CCNASv2 labs.

Step 1: Enable the next-generation Java Plug-in.

- a. Open the Control Panel, and select Java to access the Java Control Panel.
- b. In the Java Control Panel, click the Advanced tab.
- c. Locate the heading "Java Plug-in". Select the checkbox to **Enable the next-generation Plug-in**. a browser restart is required.
- d. Click Apply.
- e. Click Yes to allow the changes. Click OK to acknowledge the changes.

Step 2: Change the Java security settings.

- a. Click the Security tab.
- b. Change the Security Level to Medium by moving the slider.
- c. Click **Apply**.

Step 3: Change the Java Applet Runtime settings.

- a. Click the Java tab and then the View button to change the Java Applet Runtime Settings.
- b. Double-click the Runtime Parameters box. Type -Xmx256m in the box.

c. Click OK. Click OK again to exit the Java Control Panel.

Java Runt	ime Environ	ment Settings			×
User Sys	tem;				
Platform	Product	Location	Path	Runtime Parameters	Enabled
1.7	1.7.0_51	http://java.s	C:\Program Files\Java	-Xmx256m	V
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				ОК	Cancel

Step 4: Restart all web browsers, including CCP if it opened, in order for the changes to take effect.

Part 3: Access a Cisco Router Using a Mini-USB Console Cable

If you are using a Cisco 1941 router or other Cisco IOS devices with a mini-USB console port, you can access the device console port using a mini-USB cable connected to the USB port on your computer.

Note: The mini-USB console cable is the same type of mini-USB cable used with other electronics devices, such as USB hard drives, USB printers, or USB hubs. These mini-USB cables can be purchased through Cisco Systems, Inc. or other third-party vendors. Please verify that you are using a mini-USB cable, not a micro-USB cable, to connect to the mini-USB console port on a Cisco IOS device.



Note: You must use either the USB port or the RJ-45 port. Do not use them simultaneously. When the USB port is used, it takes priority over the RJ-45 console port.

Step 1: Set up the physical connection with a mini-USB cable.

- a. Connect the mini-USB cable to the mini-USB console port of the router.
- b. Connect the other cable end to a USB port on the computer.
- c. Turn on the Cisco router and computer.



- 1) USB 5-pin mini Type-B console port
- 2) USB 5-pin mini Type-B to USB Type-A Console Cable
- 3) USB Type-A connector

Step 2: Verify that the USB console is ready.

If you are using a Microsoft Windows-based PC and the USB console port LED indicator (labeled EN) does not turn green, please install the Cisco USB console driver.

A USB driver must be installed prior to being used on a Microsoft Windows-based PC that is connecting to a Cisco IOS device with a USB cable. The USB driver can be found on <u>www.cisco.com</u> with the related Cisco IOS device. The USB driver can be downloaded from the following location:

http://www.cisco.com/cisco/software/release.html?mdfid=282774238&flowid=714&softwareid=282855122&rel ease=3.1&relind=AVAILABLE&rellifecycle=&reltype=latest

Note: You must have a valid Cisco Connection Online (CCO) account to download this file.

Note: The URL provided above is specifically related to the Cisco 1941 router. However, the USB console driver is not Cisco IOS device-model specific, but it only works with Cisco routers and switches. The computer requires a reboot after finishing the installation of the USB driver.

Note: After the files are extracted, the folder contains instructions for installation, removal, and the required drivers for different operating systems and architectures. Please choose the appropriate version for your system.

When the LED indicator for the USB console port has turned green, the USB console port is ready for access.

Step 3: Enable the COM port for the Windows 7 PC.

If you are using a Microsoft Windows 7 PC, you may need to perform the following steps to enable the COM port:

- a. Click the Windows Start icon to access the Control Panel.
- b. Open the **Device Manager**.

c. Click the **Ports (COM & LPT)** tree link to expand it. Right-click the **USB Serial Port** icon and choose **Update Driver Software**.



d. Choose Browse my computer for driver software.



e. Choose Let me pick from a list of device drivers on my computer and click Next.

\bigcirc	Update Driver Software - USB Serial Port (COM5)
	Browse for driver software on your computer
	Search for driver software in this location:
	C:\Users\User1\Downloads\Cisco_usbconsole_driver_3_1\Windows Browse
	 Include subfolders Let me pick from a list of device drivers on my computer This list will show installed driver software compatible with the device, and all driver software in the same category as the device.
	Next Cancel

f. Choose the Cisco Serial driver and click Next.

G	Update Driver Software - USB Serial Port (COM5)
	Select the device driver you want to install for this hardware.
	select the manufacturer and model of your hardware device and then click Next. If you have a disk that contains the driver you want to install, click Have Disk.
	Show compatible hardware
	Model
	ि Cisco Serial दि USB Serial Port
	This driver is digitally signed.
	Tell me why driver signing is important
	Next Cancel

g. The device driver is installed successfully. Take note of the assigned port number listed at the top of the window. In this sample, COM 5 is used for communication with the router. Click **Close**.

	×
🕞 📱 Update Driver Software - Cisco Serial (COM5)	
Windows has successfully updated your driver software	
Windows has finished installing the driver software for this device:	
Cisco Serial	
	Close

h. Open **Tera Term**. Click the **Serial** radio button and choose **Port COM5**: **Cisco Serial (COM 5)**. This port should now be available for communication with the router. Click **OK**.

Tera Term: New cor	nnection	×
© тср <u>/</u> ір	Hos <u>t</u> : netlab.netao ✓ Hist <u>o</u> ry Service: ○ Telnet	cadtasc.net - TCP <u>p</u> ort#: 22
	⊚ <u>S</u> SH ⊘ Other	SSH version: SSH2 v Protocol: UNSPEC v
Serial	Po <u>r</u> t: COM5: Cisc	o Serial (COM5) 👻
	OK Cancel	Help

Part 4: Download and Install the AnyConnect Client Software Packages

Updated versions of Cisco's AnyConnect Client software packages can be downloaded from Cisco.com. It is recommended that AnyConnect Secure Mobility Client release 4.1.00028 is downloaded and installed on the

ASA 5505 for CCNAS. This release of the AnyConnect Secure Mobility Client has been tested on PCs running either the Windows 7 or Windows 8.1 OS.

Note: AnyConnect client version 4.5 is available for download in CCNA Security Instructor Resources.

Step 1: Download the AnyConnect Secure Mobility Client software packages from cisco.com.

- a. Using a browser, connect to the www.cisco.com and log in.
- b. Click Support > Security (VPN, Firewall) > AnyConnect VPN Client.
- c. From the Cisco AnyConnect VPN Client screen, click Download Software.

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cisco										_	
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Cisco AnyCo	onnect VPN Client	Command Lookup Tool	in VPN								
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Design		oupport ouse manager	AnyConn	AnyConnect Phone VPN Setup with Existing AnyCon							
Install and	Upgrade	t		by jmeggers Last Reply Sept 08, 2014 in VPN							
Configure				See All Rela	ated Community	Content					
Maintain a	nd Operate				,						
Troublesho	oot and Alerts	Most Requested Documer	nts								
		These Cisco AnyConnect VPI	N Client support do	cuments were the most requ	iested:						
		ASA 8.x: AnyConnect VPN	Client Troubleshoo	ting Tech Note							
		AnyConnect VPN (SSL) Clie	ent on IOS Router	with CCP Configuration Exa	mple						
		AnyConnect VPN Client FA	Q								
		ASA 8.X: AnyConnect Start	Before Logon Fea	ture Configuration							
		ASA 8.x VPN Access with the	he AnyConnect SS	L VPN Client Configuration E	Example						
		Cisco AnyConnect VPN C	lient Support Doc	umentation							
		Software Downloads. Rele	ase and General	Information			_				
		Download Software	>								
		Compatibility information	(2)								
		Design									

d. From the Download Software – Select a Product screen, click AnyConnect Secure Mobility Client.

			Worldw	vide [change] Log In Ad	count Register My Cis	sco -
CISCO Products & S	ervices Support	How to Buy	Training & Events	Partners		Q
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e. Click AnyConnect Security Mobility Client v4.x.

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cisco	Products & Services	Support	How to Buy	Training & Events	Partners		्
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f. Use the scroll bar in the Download Software – AnyConnect Secure Mobility Client v4.x screen to locate the Full installation package – Windows / Head-end deployment (PKG) file. Click Download.

Note: The Windows package release 4.1.00028 filename is anyconnect-win-4.1.1.00028-k9.pkg.

cisco Prod	ucts & Services	Support	How to Buy	Worldwide [cl	nange] Welcom Its Pa	ie, Ron Shaw Acc	punt Log Out My Cisco ~
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Downloads Home > Products AnyConnect Secure Mobility	s > Security > VPN ; Client v4.x > AnyCon	and Endpoint Sec nnect VPN Clien	curity Clients > Cisco VI It Software-4.1.00028	PN Clients > AnyCor	nect Secure M	lobility Client >	
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4.0.02052 WebSecurityCert AppSelector-1.0 ✓ All Releases → WebSecurityCert → ISEComplianceModule	File Information Web Security Modul anyconnect-websecu	e - Windows / Sta rity-win-4.1.00028-	Indalone installer (MSI) pre-deploy-k9.msi	R 0	elease Date 8-MAY-2015	Size	Download Add to cart Publish
 AppSelector-1.0 Hostscan 4.1 4.0 	Full installation pacl anyconnect-win-4.1.0	kage - Windows / 0028-k9.pkg	Head-end deployment (P	РКG) 0	8-MAY-2015	16.16 MB	Add to cart Publish
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Step 2: Upload the AnyConnect Secure Mobility Client to the ASA 5505.

a. After the **anyconnect-win-4.1.00028-k9.pkg** has been downloaded, connect the PC to the ASA 5505 E0/1 interface and assign it a static IP address of **192.168.1.3** with a subnet mask of **255.255.255.0.**

Note: This PC will also need TFTP server software installed. Free or trial versions of TFTP server can be downloaded from the Internet. Use a web browser to search for "free windows tftp server" and refer to the software documentation for more information.

The IP addresses used in this example are for reference only. The file **anyconnect-win-4.1.00028-k9.pkg** is used in this example.

b. Configure the ASA's VLAN with an IP address of **192.168.1.1**, a subnet mask of **255.255.255.0**, and the nameif to **inside**.

```
ciscoasa(config)# int vlan 1
ciscoasa(config-if)# ip address 192.168.1.1 255.255.255.0
ciscoasa(config-if)# nameif inside
INFO: Security level for "inside" set to 100 by default.
ciscoasa(config-if)# no shut
```

c. Activate interface E0/0.

```
ciscoasa(config-if)# int e0/1
ciscoasa(config-if)# no shut
ciscoasa(config-if)# end
```

d. Start the TFTP server software and verify that the **anyconnect-win-4.1.00028-k9.pkg** file is located in the default directory.

e. From the CLI on the ASA, issue the copy tftp://192.168.1.1/anyconnect-win-4.1.000028-k9.pkg flash: command.

```
ciscoasa# copy tftp://192.168.1.3/anyconnect-win-4.1.00028-k9.pkg flash:
```

Address or name of remote host [192.168.1.3]?

Source filename [anyconnect-win-4.1.00028-k9.pkg]?

Destination filename [anyconnect-win-4.1.00028-k9.pkg]?

f. Issue the **show flash** command on the ASA to verify that the file has been uploaded to flash.

ciscoasa# show flash

```
--#-- --length-- -----date/time----- path
  54 30468096
                 Feb 13 2015 15:09:42 asa923-k8.bin
  19 2048
                 May 13 2015 18:42:24 crypto archive
  20 2048
                 May 13 2015 18:42:54 coredumpinfo
  21 59
                May 13 2015 18:42:54 coredumpinfo/coredump.cfg
  10 2048
               Aug 29 2011 13:59:36 log
  57 26350916 Mar 26 2015 14:20:14 asdm-741.bin
  62 12998641 Aug 29 2011 14:04:10 csd 3.5.2008-k9.pkg
  63 2048
                Aug 29 2011 14:04:12 sdesktop
  86 0
                Aug 29 2011 14:04:12 sdesktop/data.xml
  64 4678691
                Apr 16 2015 16:10:22 anyconnect-win-2.5.2014-k9.pkg
  65 6487517
                Apr 16 2015 16:11:26 anyconnect-macosx-i386-2.5.2014-k9.pkg
  66 6689498 Apr 16 2015 16:12:18 anyconnect-linux-2.5.2014-k9.pkg
  68 16932458 May 21 2015 22:23:05 anyconnect-win-4.1.00028-k9.pkg
```

```
128573440 bytes total (23339008 bytes free) ciscoasa#
```

Router Interface Summary Table

Router Interface Summary								
Router Model	Ethernet Interface #1	Ethernet Interface #2	Serial Interface #1	Serial Interface #2				
1800	Fast Ethernet 0/0 (F0/0)	Fast Ethernet 0/1 (F0/1)	Serial 0/0/0 (S0/0/0)	Serial 0/0/1 (S0/0/1)				
1900	Gigabit Ethernet 0/0 (G0/0)	Gigabit Ethernet 0/1 (G0/1)	Serial 0/0/0 (S0/0/0)	Serial 0/0/1 (S0/0/1)				
2801	Fast Ethernet 0/0 (F0/0)	Fast Ethernet 0/1 (F0/1)	Serial 0/1/0 (S0/1/0)	Serial 0/1/1 (S0/1/1)				
2811	Fast Ethernet 0/0 (F0/0)	Fast Ethernet 0/1 (F0/1)	Serial 0/0/0 (S0/0/0)	Serial 0/0/1 (S0/0/1)				
2900	Gigabit Ethernet 0/0 (G0/0)	Gigabit Ethernet 0/1 (G0/1)	Serial 0/0/0 (S0/0/0)	Serial 0/0/1 (S0/0/1)				

Note: To find out how the router is configured, look at the interfaces, identify the type of router used, and how many interfaces the router has. There is no way to effectively list all the combinations of configurations for each router class. This table includes identifiers for the possible combinations of Ethernet and Serial interfaces in the device. The table does not include any other type of interface, even though a specific router may contain one. An example of this might be an ISDN BRI interface. The string in parenthesis is the legal abbreviation that can be used in Cisco IOS commands to represent the interface.