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Cisco asa firepower installation guide

Now that we know something about the SFR module, it's time to make it work. We will destroy the installation in following steps: Prepare As we have seen in the previous blog, there are some prerequisites that must be satisfied before you can install the SFR module. We briefly review them: We have to have an ASA that supports the SFR. Currently, these are: 5506-X, 5512-X, 5515-X, 5525-X, 5545-X, 5555-X or 5585-X. For software modules, we must have a SSD drive inserted in the ASA box. Either we buy ASA with this disc or buy it separately. The 5506-X comes with the installed SSD drive Our ASA must run the specific version of the code. For 5506-X this is at least 9.3(2) and for all other members of the ASA family, this must be at least 9.2(2.4) With the minimum required version of the ASA code, we must have an appropriate version of the FirePOWER software. For 5506-X this must be 5.4.1, and for all other members, this must be 5.3.1 For all members of the ASA boxes, except for 5506-X, we must have the FireSIGHT or the Defence Center that will manage the SFR module. This can be VMware hardware or virtual appliances and must perform the same or higher version of the module itself. Therefore, for the SFR 5.3.1 code, the Defence Center must perform at least 5.3.1 version. The 5506-X does not require the Defence Center and can be managed via ASDM If we purchased the ASA with the SSD drive, there might be the old version of the SFR code, or even other software module installed. Currently we can only perform a type of software module. So, if we have installed ips or cxsc software, we must remove it before installing the new SFR code. We check our module type and version: So, we have the cxsc module installed fine we have to remove it: ciscoasa# module sw-module cxsc shutdown ciscoasa# module sw-module cxsc ciscoasa# reload if we had the ips module, we will issue this set of commands: module ciscoasa# sw-module sw-modules shutdown ciscoasa # sw-module module ips uninstall ciscoasa# refill Now we are ready to install the SFR module. Installation The installation consists of two steps. First, we need to upload the startup image to the ASA device, and make it work. This image is a small Linux distribution (about 40 megs) that starts and allows us to connect to the network to recover and start the software installation from the software package that is about 400 megs and is called a system image. So, we upload our startup image. We will use the FTP protocol in this example: copy ftp://spop:spop123@10.10.10.10/asaasfr-5500x-boot-5.3.1-152.img disk0. Then we issue: sw-module module sfr recover configure the disk0 image/asaasfr-5500x-boot-5.3.1-152.img sw-module module sfr recover boot Module sfr will be recovered. This can erase all configurations and all data on that device and attempt to download/install a new image for it. This can take several minutes. Retrieving the sfr module? Retrieve released by module sfr. We can monitor the boot image loading process with the module-boot debug command. This process can take a little time, so we take a cup of coffee... To connect to the module, we issue the console command sfr session. The default credentials for the startup image are admin/Admin123. After typing them, we get the SFR startup image prompt and we start the basic configuration of the startup image. This is the process outlined: ciscoasa# ciscoasa# session sfr console Opening console with module sfr. Connected to the sfr module. The escape character sequence is 'CTRL-^X'. Cisco ASA SFR Boot Image 5.3.1 asafr login: admin Password: Cisco ASA SFR Boot 5.3.1 (152) Type ? for the list of asafr-boot* asafr-boot* setup commands Welcome to SFR Setup [hit Ctrl-C to abort] The default values are[] Enter a host name [asafr]: SFR Do you want to configure the IPv4 address on the management interface? (y/n) Ydo you want to enable DHCP to assign IPv4 address on the management interface?(y/n) [N]: N Enter an IPv4 address [192.168.8.8]: 10.10.10.227 Enter network mask [255.255.255.0]: 255.255.255.0 Enter gateway [192.168.8.1]: 10.10.10.1 Do you want to configure static IPv6 address on the management interface?(y/n) [N]: The N Stateless self-configuration will be enabled for IPv6 addresses. Enter the primary DNS server IP address: 192.168.1.1 Do you want to configure Secondary DNS Server? (y/n) Y Enter the IP address of the secondary DNS server: 192.168.1.2 Do you want to configure the local domain name? (y/n) Y Enter the local domain name: popravak.local Do you want to configure the search domains? (y/n) [n]: n Do you want to enable the NTP service? [Y]: Y Enter NTP servers separated by commas: 192.168.200.1,192.168.200.2 Do you want to enable NTP symmetrical authentication? [N]: N Please review the final configuration: Hostname: SFR Interface Management IPv4 Configuration: Static IP Address: 10.10.10.227 Netmask: 255.255.255.0 Gateway: 10.10.10.1 IPv6 Configuration: Autoconfiguration without status DNS configuration: Domain: popravak.local DNS Server: 192.168.1.1 192.168.1.2 NTP Configuration: 192.168.200.1 192.168.200.2 ATTENTION: You have selected the stateless IPv6 self-configuration, which assigns a global address based on network prefix and a device identifier. Although this address is unlikely to change, if it changes, the system will stop working properly. We recommend using the static address. Apply changes?(y,n) [Y]: Y Configuration successfully saved! Apply... Reboot network services... Reboot NTP service... Got it. Press ENTER to continue... We are now ready to take and install our system image from the network. It might take a while. Once again, we could monitor the process in more detail by emitting the debug module-boot. module-boot installation of the ftp://spop:spop123@10.10.10/asaasfr-sys-5.3.1-152.pkg Detailed description: Cisco ASA-SFR 5.3.1-152 Installation of the Requires reboot system: Yes. Do you want to continue with the update? [y]: Y Attention: Please do not interrupt the process or turn off the system. By doing so, it could leave the system in an unusable state. Update Starting update process ... Popular new system image... The restart is necessary to complete the update. Press 'Enter' to restart the system. It might take some time. We can verify that the installation process is successful with the sfr command of the show module: Now we log back to the sfr module with session console sfr: console sfr ciscoasa session# Opening console with module sfr. Connected to the sfr module. The escape character sequence is 'CTRL-^X'. Sourcefire ASA5525 v5.3.1 (build 152) Fire source3 D login: Access credentials are now admin/Sourcefire. We must accept the EULA and walk through the configuration process: ciscoasa# ciscoasa# session sfr console Opening console with module sfr. Connected to the sfr module. The escape character sequence is 'CTRL-^X'. Sourcefire ASA5525 v5.3.1 (build 152) Password: Copyright 2001-2013, Sourcefire, Inc. All rights reserved. Sourcefire is a registered trademark of Sourcefire, Inc. All other trademarks are the property of their respective owners. Sourcefire Linux OS v5.3.1 (build 43) Sourcefire ASA5525 v5.3.1 (build 152) Last access: Tue Mar 17 02:50:29 on tty S1 You have to accept the EULA to continue. Press to display the EULA: END USER LICENSE AGREEMENT < Omitted lines. We can walk through the EULA by pressing ENTER or SPACE > Please enter 'Yes' or press for AGREE to EULA: YES initialization of the current system. Please, wait. You need to change the password to 'admin' continue. Enter a new password: the new password: You must configure the continue. You must configure at least one IPv4 or IPv6. Do you want to configure IPv4? (y/n) Do you want to configure IPv6? (y/n) Configure IPv4 via DHCP or manually? (dhcp/manual) Enter an IPv4 address for the management interface [192.168.45.45]: 10.10.10.228 Enter an IPv4 network mask for the management interface [255.255.255.0]: Enter the default IPv4 gateway for the management interface []: 10.10.10.1 Enter a fully qualified hostname for this system [Sourcefire3D]: SFR Enter a separate list from DNS server comma or "grandfather" []: 192.168.1.1, 192.168.1.2 Enter a separate list from search domain comma or "none" [example.net]: popravak.local If your network information has changed, you will need to reconnect. For HTTP configuration, please "configure the http-proxy network" This sensor must be managed by a Defence Center. A unique alphanumeric registration key is always required. In most cases, to record a sensor to a defense center, you must provide the host name or IP address along with the registration key. "configure manager add [hostname | ip address] [recording key]" However, if the sensor and the Defence Center are separated from a NAT device, you need to enter a unique NAT ID, along with the unique registration key. "configure managers add DONTRESOLVE [registration key] [ID NAT]" After using the web interface on the Defense Center, you must use the same registration key and, if necessary, the same NAT ID when adding this sensor to the Defense Center. > Setting At this point, we have completed the installation of the SFR module. As for configuration steps, on the SFR side, we just need to specify which FireSIGHT Defence Center or server will be used to manage our module. We do so by emitting: > configure managers 10.10.10.67 spop123 Manager successfully configured. > With this command we specified the IP address of the Defense Center and the key. We will use this key on the FireSIGHT server to be able to This module shows the current state of connection to the defense center can be seen from the module sfr cli: > > host show manager: 10.10.67 registration key: spop123 registration: waiting for rpc status: > now we have to install and configure the firesight server and import our module sfr. This will do it next time. for now, we will block from the cli module by typing the ocite and pressing CTRL+SHIFT+6+x combination, to complete this blog, we will import this form into the existing defense center. We accept the defense center with the web browser https://addressofdefensecenter and using our credentials, then under the Device menu, click the Add button and select Add Device. opens a dialog box that needs to be filled: we can see that we are using the ip address we have assigned to our sfr. when talking about the ip address sfr, let me say that the way the sfr module is connected to the network is usually sharing the Management/0 interface with the asa box. the sfr module has its ip and mac addresses. we also see the key we typed in when we were configuring the module. here is also the default policy for this module. further on these in the following blogs. for now, click the Register button. After a while, our device will be registered with the management server, which can also be checked on the sfr module: > > > > show manager type : host manager: 10.10.67 registration: > this is all for now. thanks for reading. reading.

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