## CONNECT TO THE MANAGEMENT NETWORK



## A JOURNEY OF A THOUSAND MILES BEGINS WITH ... CONFIGURING YOUR MANAGEMENT NETWORK

- Initial system access
- Configure management network settings
- Activate a firewall, and manage licenses and software





## **Learning Objectives**

After you complete this module, you should be able to:



- Identify available firewall management interfaces and the methods to access them
- Configure firewall management interface network settings and services
- Activate firewall licenses and update PAN-OS® software
- Identify the purpose and location of firewall configuration skillets



## **Initial system access**

**Configure management network settings** 

Activate a firewall, and manage licenses and software





#### **Initial Access to the Firewall**

- Initial configuration must be performed using either:
  - Dedicated out-of-band management Ethernet interface (MGT)
  - Serial console connection
- Default MGT IP addressing:

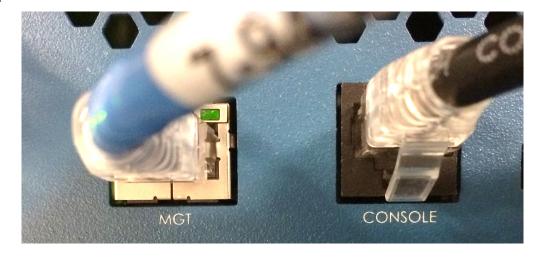
Most firewall models: 192.168.1.1/24

VM-Series firewalls: DHCP client

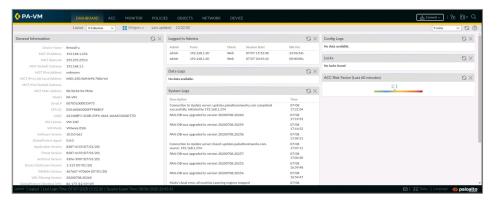
Predefined administrator:

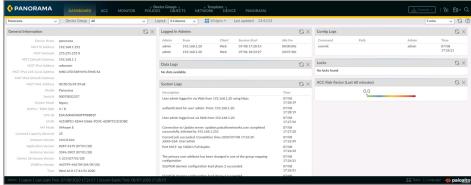
• Username: admin

Password: admin

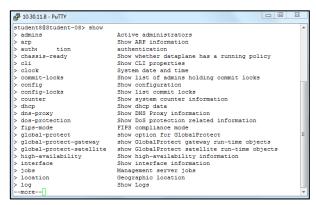


#### **Administrative Access Tools**





#### **Web Interface**



**SSH/Console CLI** 

#### **Panorama**

#### **REST/XML API**

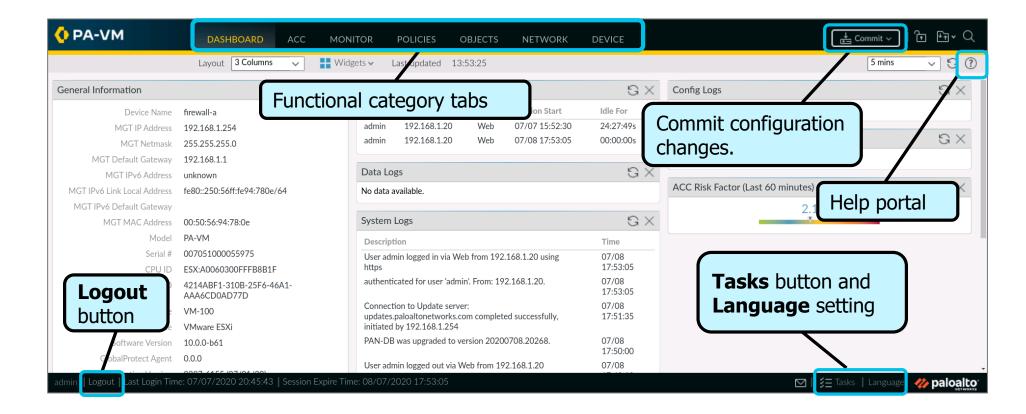


## **Initial Login to the Web Interface**

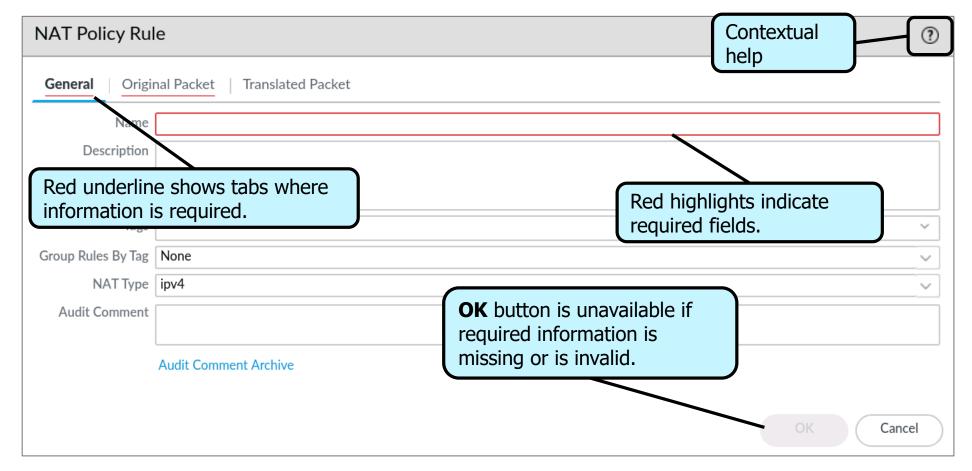


- Required to change predefined admin password at first login
- Predefined admin password complexity requirements:
  - Minimum of:
    - Eight characters
    - One uppercase character
    - One lowercase character
    - One numeral or special character
- These requirements:
  - Cannot be changed
  - Are not applied to other administrator accounts

#### **Web Interface**



## **Web Interface Editing Guidance**



### **Initial system access**



## **Configure management network settings**

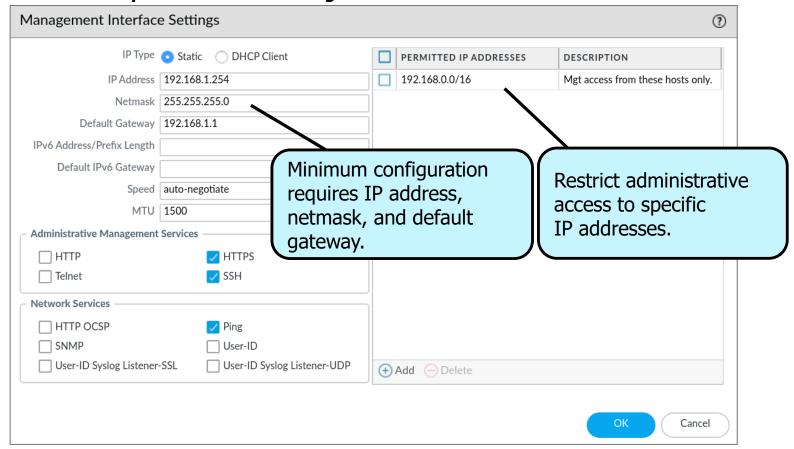
Activate a firewall, and manage licenses and software





## **MGT Interface Configuration: Web Interface**

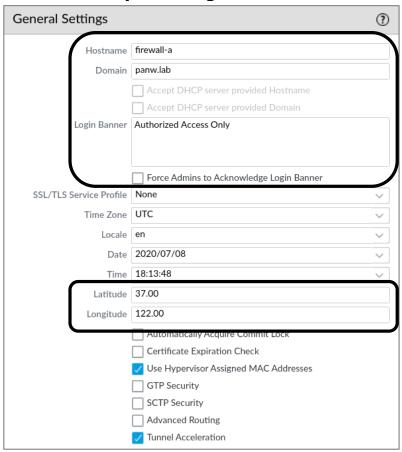
#### **Device > Setup > Interfaces > Management**



## **Other Initial Configuration Settings**

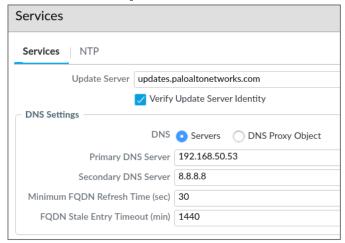
- Configure hostname and domain name:
  - Each defaults to the firewall model name.
- The Accept DHCP... options are available only if MGT is configured by DHCP.
- (Optional) Configure a security message in Login Banner.
- Latitude and Longitude are used to place the firewall on maps on the ACC and Monitor tabs.

#### **Device > Setup > Management**

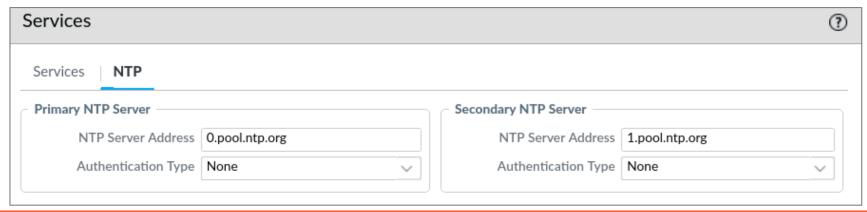


## **Configure Access to DNS and NTP Services**

#### **Device > Setup > Services**

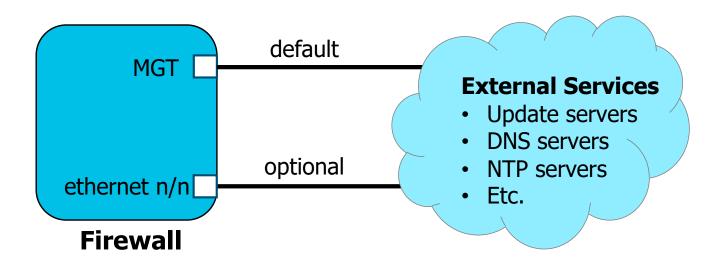


- DNS server configuration is required to reach update servers.
- NTP client configuration is optional but is recommended.



#### **Service Routes**

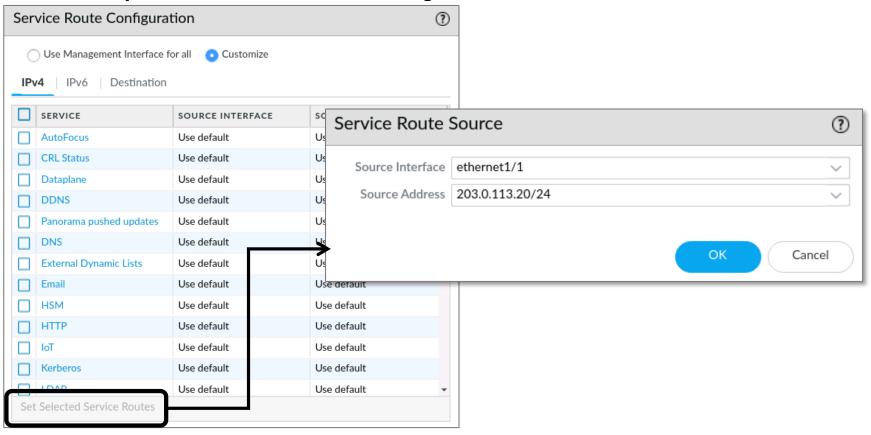
- By default, the MGT port is used to access external services.
- Configure an in-band port to access external services (optional):
  - Such a configuration is called a "service route."



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## **Configure Service Routes**

#### **Device > Setup > Services > Service Route Configuration**



**Initial system access** 

**Configure management network settings** 





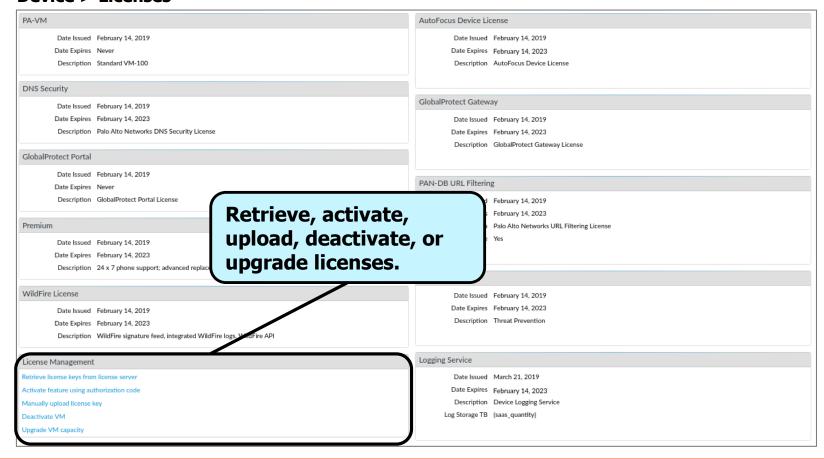


## **Activate a Firewall**

Step	Hardware Firewall	VM-Based Firewall				
Register with Palo Alto Networks Support.	Use serial number from <b>Dashboard</b> .	Use emailed auth codes and purchase/order number.				
Activate licenses at <b>Device</b> > <b>Licenses</b> .	Retrieve license keys from license server.	Activate feature using authorization code.				
Verify update and DNS servers.	Use correct update and DNS server in <b>Device &gt; Setup &gt; Services</b> .					
Manage content updates.	Get latest application and threat signatures and URL filtering database.					
Install software updates.	Verify OS version and install recommended version.					

## **Manage Firewall Licenses**

#### **Device > Licenses**



## **PAN-OS Software Updates**

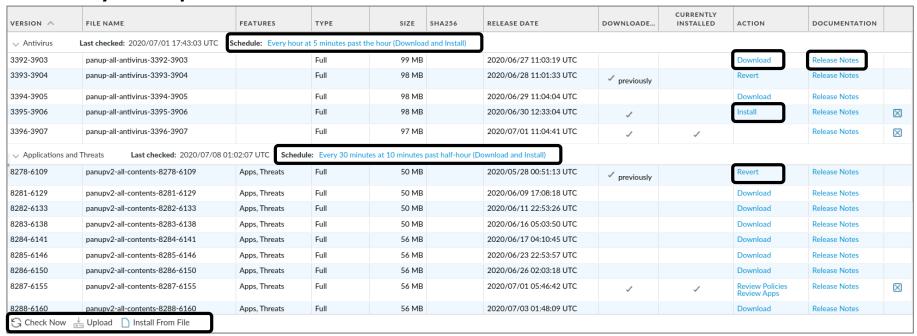
#### **Device > Software**

VERSION V	SIZE	RELEASE DATE	DOWNLOADED	CURRENTLY INSTALLED	ACTION		
10.0.0	806 MB	2020/07/01 13:11:26	✓	✓	Reinstall	Release Notes	
9.2.0-b46	793 MB	2020/06/01 11:55:47	/		Install	Release Notes	$\boxtimes$
9.2.0-b36	796 MB	2020/05/06 04:18:05			Download	Release Notes	
9.2.0-b30	788 MB	2020/04/06 15:29:53			Download	Release Notes	
9.2.0-b22	782 MB	2020/03/03 16:04:41			Download	Release Notes	
9.2.0-b17	782 MB	2020/02/07 13:59:59			Install		$\boxtimes$
9.1.3-h1	381 MB	2020/06/30 15:08:51			Download	Release Notes	
9.1.3	381 MB	2020/06/23 12:22:15			Download	Release Notes	
9.1.2-h1	320 MB	2020/04/23 13:08:14			Download	Release Notes	
9.1.2	320 MB	2020/04/08 10:49:27			Download	Release Notes	
9.1.1	327 MB	2020/02/10 14:11:38			Download	Release Notes	
9.1.0-h3	242 MB	2019/12/21 10:49:09			Download	Release Notes	
9.1.0-b62	716 MB	2019/11/25 09:36:57			Download	Release Notes	
9.1.0-b56	715 MB	2019/11/06 04:44:19			Download	Release Notes	
9.1.0-b55	715 MB	2019/10/24 22:40:21			Download	Release Notes	
9.1.0-b49	714 MB	2019/10/02 21:43:46			Download	Release Notes	
9.1.0	714 MB	2019/12/13 09:35:35			Install		$\boxtimes$

- to list new software.
- from update server or **Upload** from local machine.
- **3. Install** software.

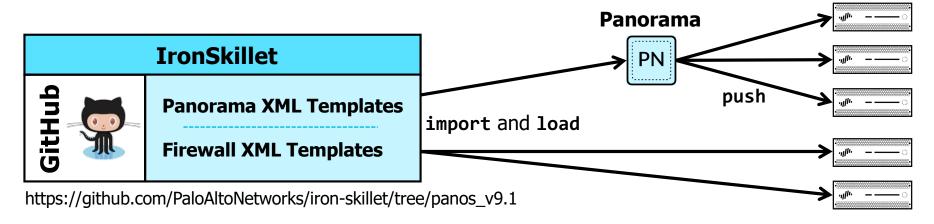
## **Dynamic Updates**

#### **Device > Dynamic Updates**



- Schedule checking for new content, and automatic download or download and install.
- Updates can be manually downloaded, installed, or reverted to previous update.

## **Best Practice Configuration Templates**



- The GitHub IronSkillet repository holds Day 1 configuration templates:
  - Implements inbound, outbound, and internal traffic protection methodology
  - Loads configuration settings and custom reports for Panorama or firewalls
  - Minimizes deployment time and errors
- Day 1 configuration also is available through the Support Portal when you register a new firewall.

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## **Module Summary**

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- Activate firewall licenses and update PAN-OS® software
- Identify the purpose and location of firewall configuration skillets

## **Questions**



## **Lab 2: Connect to the Management Network**

- Connect to Your Student Firewall
- Configure the Update Server and DNS Server
- Configure General Settings
- Modify Management Interface
- Check for New PAN-OS Software

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