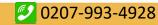




# Panorama Adding Bulk Firewalls

Step by Step Configuration Guide









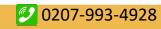
2020

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# 2020

# Fortray Networks-Palo Alto - LAB Workbook

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# 1. Fortray - Palo Alto - Version Control

Version	Date	Notes	Created By	Release	
1.0	15/03/2018	Student Workbook for LAB	Mazhar Minhas	Draft	
1.1	15/03/2018	Topology update	Mazhar Minhas	Initial Release	
1.2	23/07/2020	Diagram and document redesign and Formatting	Farooq Zafar	Final Release	

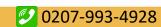
# 2. Fortray - Palo Alto - Reference Document

Click for the Reference document

# 3. Fortray - Palo Alto - Assumption

- ✓ We understand that delegate already understand L2/L3, Routing.
- ✓ The delegate already knows the "Fortray Networks Palo Alto Panorama" physical and logical connection.
- ✓ The delegate already has a basis Troubleshooting skill, such as ping and trace.
- ✓ The delegate already has access to the "Fortray Networks Palo Alto Panorama" Spreadsheet encompassing the Basic Layer, 2, 3 and allocated subnet information. For more details refer to the "Student Folder".
- ✓ This document is created to show an example for one topology only. The candidate needs to refer to his own topology and follow this step by step guide.
- ✓ We assume that delegate already has installed the VPN software and him/she have VPN user / Password. If any issue, contact our Technical team.
- ✓ Our VPN software is supported by PC, MAC, Android, and IOS devices.
- ✓ It's also assumed that delegate has access to PC/Laptop i5 with 4GB RAM.
- ✓ For optimal connectivity, we recommend at least 10MB internet connection.
- ✓ We assume that we already have INTERNAL, DMZ, OUTISE interfaces that are already configured.

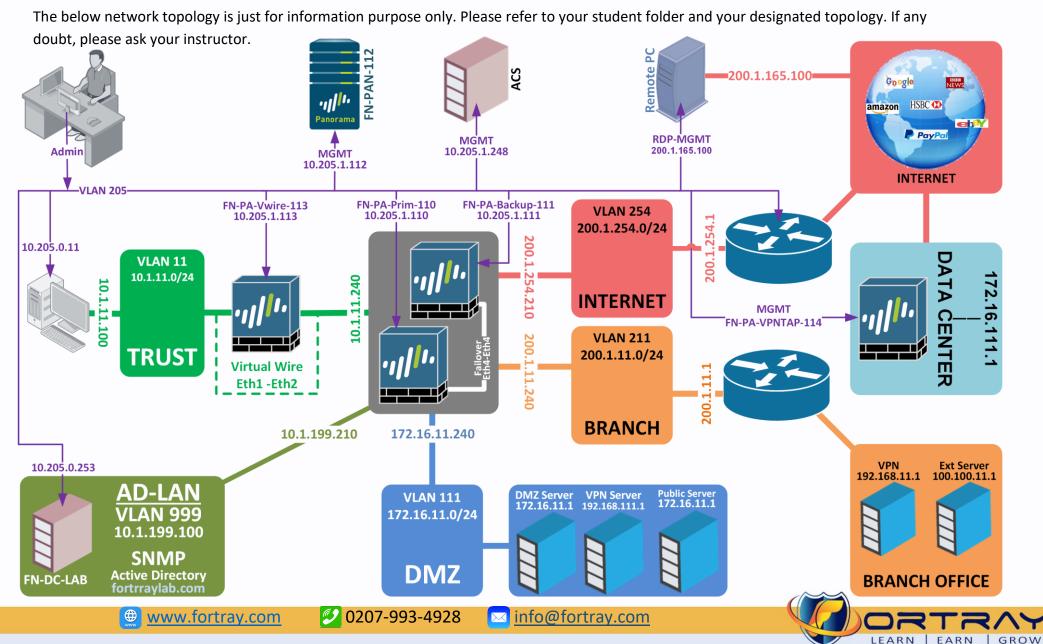








# 4. Fortray - Palo Alto - Network Topology

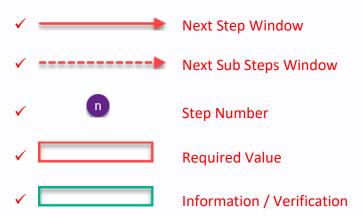


# 5. Fortray - Palo Alto - Notes About Task

Here we have Management Access details for Palo Alto firewalls and Panorama Installed in LAB.

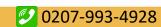
Palo Alto Student Firewall Information												
Devcie Name Role		Model	Version	PA-200 Serial no	MGMT IP	Defualt Credentials	New User	PASSWORD				
FN-PA-PRIM-110	Primary	PA-200	8.1.0	001606067716	10.205.1.110	admin/admin	admin	Palo@123				
FN-PA-BACK-111	Backup	PA-200	8.1.0	001606059502	10.205.1.111	admin/admin	admin	Palo@123				
FN-Panorama-112	Panorama	VM	8.1.6		10.205.1.112	admin/admin	admin	Palo@123				
PN-PA-VWVLAN-113	Virtual Wire + VLAN FW	PA-200	7.0.1	001606014209	10.205.1.113	admin/admin	admin	Palo@123				
PN-PA-VPNTAP-114	VPN + TAP FW	PA-200	8.0.0	001606089665	10.205.1.114	admin/admin	admin	Palo@123				

### **Workbook Shapes:**





Please Do Not Change Password for admin account.







# 6. Fortray - Palo Alto - Task: Adding Bulk Firewalls in Panorama

Fortray Network Management noticed that the configuration on Palo Alto Firewalls is taking too long, Security engineer has to configure each Palo Alto Firewall Separately.

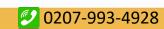


Fortray Network Security Team suggested to add all firewalls in Panorama and Managed all of them under one platform. In this task we will learn how to add Palo Alto Bulk Firewalls in Panorama.

### **Summary of the Configuration Steps:**

- Configuring Panorama Server on Required Firewalls
- > Creating Palo Alto CVS File for Adding Bulk Firewalls
- > Adding Palo Alto Bulk Firewall to Panorama using CSV File
- Committing Changes to Palo Alto Panorama
- Verification









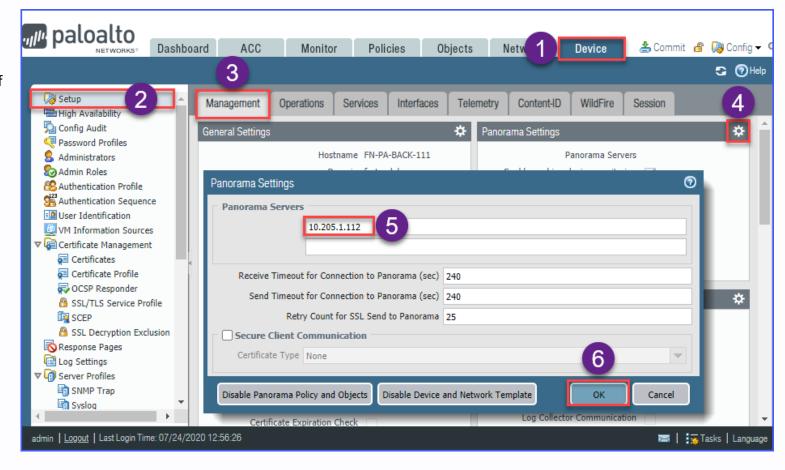
# 7. Fortray - Palo Alto - Configuration: Adding Bulk Firewalls in Panorama

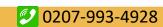
In this section, we will add Palo Alto Bulk Firewalls in Panorama using CSV file.

### 7.1. Step 1: Configuring Panorama Server on Each Firewall

We need to add Panorama Server address in each firewall, which needs to be added in Panorama. In this section, we will Panorama Server address in FN-PA-BACK-111 and PN-PA-VPNTAP-114. Login to FN-PA-BACK-111 Firewall using Web GUI and follow these steps:

- 1. Click on **Device**
- 2. Click on Setup
- 3. Click on Management
- 4. Click on **Setting icon** of Panorama Settings.
- 5. Enter IP Address of Panorama Server in First Text Box
- 6. Click **OK** to complete.
- 7. Commit



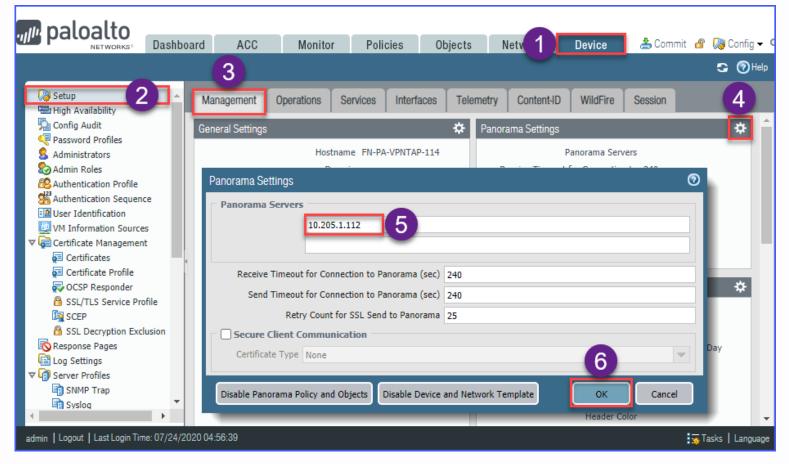


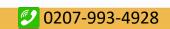




Login to PN-PA-VPNTAP-114 Firewall using Web GUI and follow these steps:

- 1. Click on **Device**
- 2. Click on Setup
- 3. Click on Management
- Click on **Setting icon** of Panorama Settings.
- 5. Enter IP Address of Panorama Server in First Text Box
- 6. Click **OK** to complete.
- 7. Commit





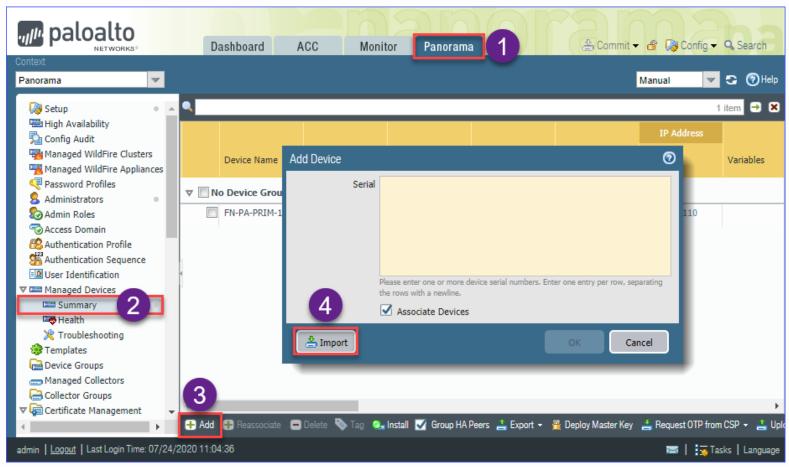


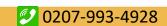


### 7.2. Step 2: Creating Palo Alto CVS File for Adding Bulk Firewalls

To create CVS file, we can download sample file by Login to Panorama and following these steps:

- 1. Click on Panorama
- 2. Click on Managed Devices > Summary
- 3. Click on Add
- 4. In new windows, Click on **Import**

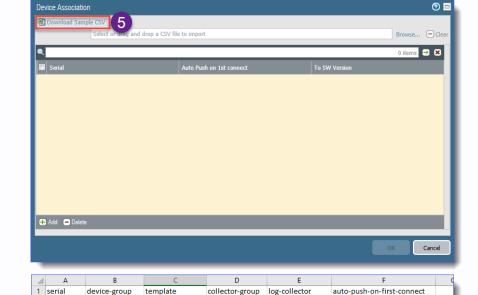




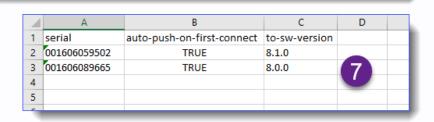




5. Click on **Download Sample CSV** 



- 6. Open CSV File in MS Excel or Notepad
- 7. Delete all Fields except required fields and adding a field **to-sw-version** which is required to add firewall. Fill all values in CSV File and Save the File.



lc1-srno;lc2-srno lc3-srno;lc4-srno



- 1. As MS Excel Remove leading Zeroes, format serial column as text.
- 2. Fill Firewall software Version in to-sw-version column.







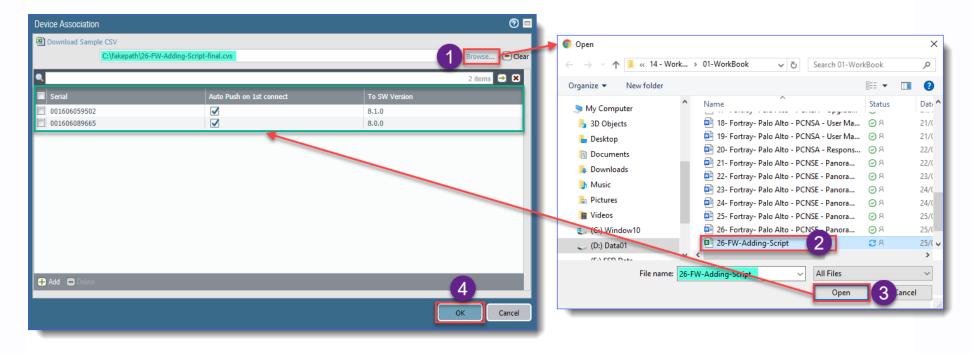


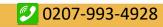
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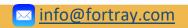
### 7.3. Step 3: Adding Palo Alto Bulk Firewall to Panorama using CSV File

To add bulk Firewalls in Panorama using CSV Files, we need to follow these steps:

- 1. Click Browse
- 2. Select Saved CSV file in Previous File
- 3. Click Open, this will add list of Firewalls in this step
- 4. Click OK

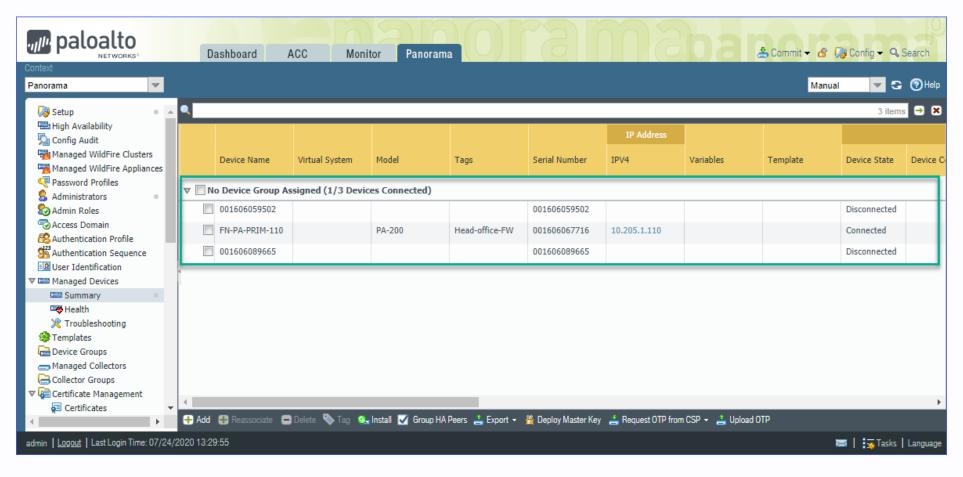


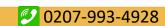


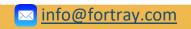




After Pressing OK Button, all firewalls will be added in Panorama and status will be Disconnected.



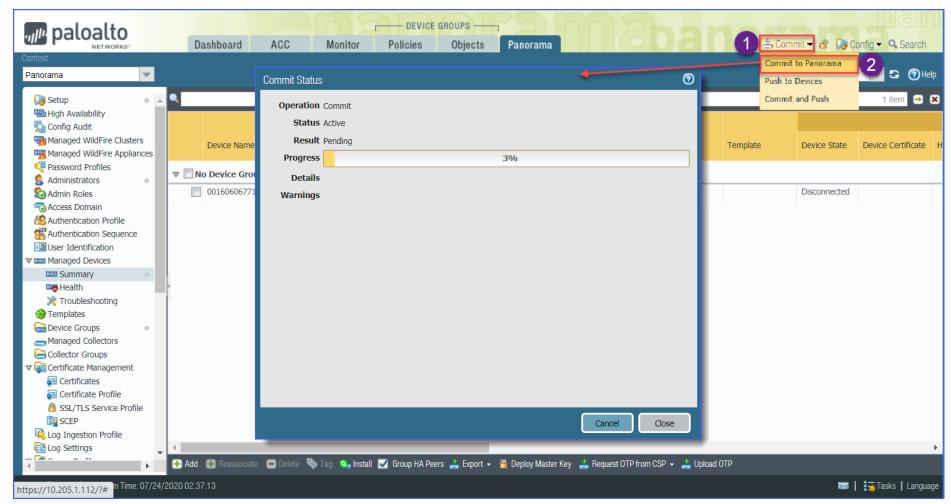






### 7.4. Step 4: Committing Changes to Palo Alto Panorama

Commit Changes to Panorama.







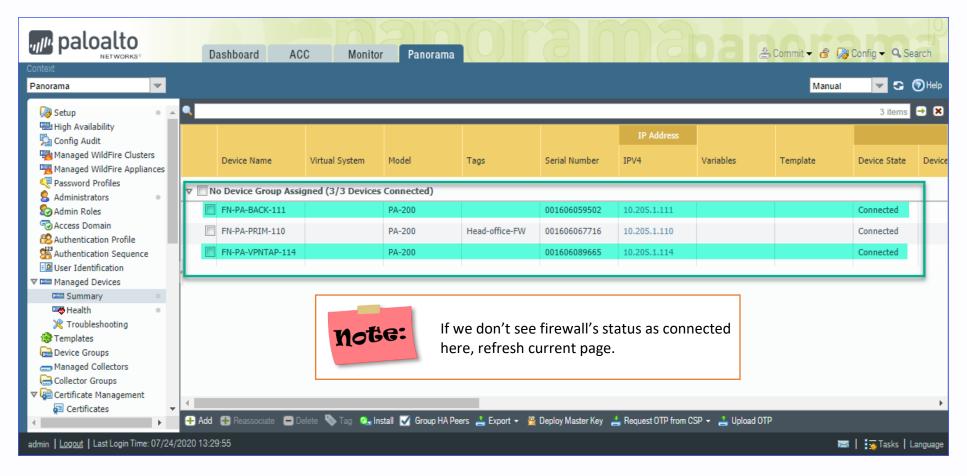


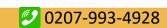
# 8. Fortray - Palo Alto - Verification

In this section, we will verify added Firewall's status.

### 8.1. Step 1: Verification using GUI

Click on **Panorama > Managed Devices > Summary**. Here, we can see newly added firewalls and their details.

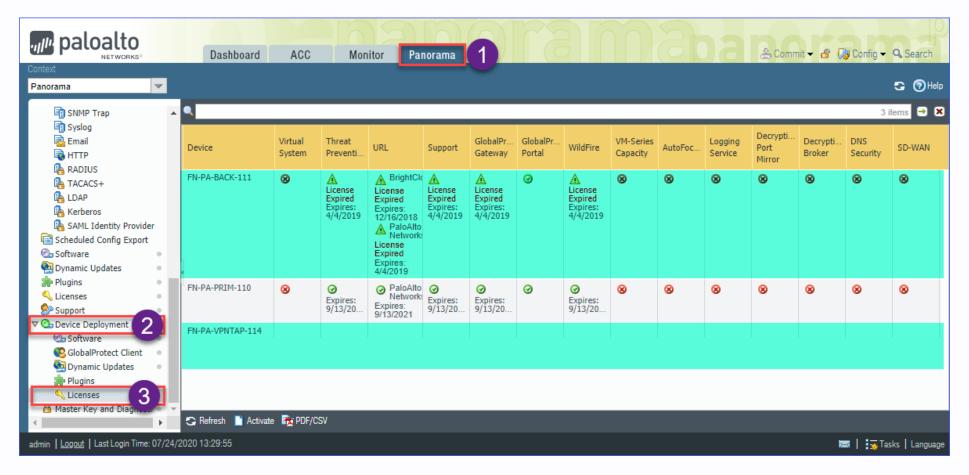




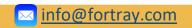




Now, click on Panorama > Device Deployment > Licenses. Here we can see complete license detail of newly added firewall.









# Thanks, and Good Luck

