

## PALO ALTO





### About Course

Palo Alto Networks offers an enterprise cybersecurity platform which provides network security, cloud security, endpoint protection, and various cloud-delivered security services.

Most firewalls report flow rates without security protections enabled, and they even default their configuration to disabling all security features. Palo Alto Networks utilizes single-pass architecture, allowing us to inspect and protect traffic at high rates.

# PALO ALTO CURRICULUM

How To Set Up Lab Environment

Setting Up EVE-NG Community PART 1
Setting Up EVE-NG Community PART 2
EVE-NG Installation with Linux
How to assigned a static IP to EVE-NG
How to add Palo Alto to EVE-NG
How to Add a Cisco Router
Connect To Palo Alto Firewall GUI with EVE-NG
Add a cisco Switch to EVE
Palo Alto Networks with AWS

### Basic Palo Alto

Traffic Processing Sequence
How the commit works
Creating Dynamic Admin Account
Creating Custom Role-Based Account
Non-Local Administrator Accounts

Securirty Operating Platform And Architecture

Cortex

### Securing the Enterprise Primary Next Generation Features

### Interfaces

Interfaces

Intro Security Zones Security Policy Tap Mode Virtual Wire Lab simple Virtual Wire Lab Advanced L2 Lab Simple L2 Lab Advanced with no Sub Interfaces L2 Deployment With Sub interfaces L2 Deployment With Sub interfaces and Router on a Stick L3 Lab Simple L3 Lab Advanced Layer 3 Subinterfaces with Firewall on a Stick Tap, Virtual Wire, L2, and L3 Interface Management Profile Virtual Routers Virtual Routers with multiple VRs Lab Routing Protocols OSPF

OSPF Between PAN, Cisco Router and Juniper Firewall

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Capture traffic on the management interface

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### Security Policies

Intro Controlling the traffic Palo Alto is StateFul Security Rule Types Creating a Security Policy Edit the Policies Tab Schedule a Policy Creating Objects Tags NAT Types Source NAT Source NAT LAB Destination NAT Creating Network Diagram Diagram Time-Based QoS Configuration



Intro
What is App-ID
How does App-Id Works
Application Shift
Application Shift Lab
Implicit Applications





### Content-ID

Intro Content ID Vulnerability Protection Default Cloning A Vulnerability Protection Creating A Vulnerability Protection Vulnerability Protection Exceptions Antivirus Profile Intro + Default Clone and add exceptions to Antivirus Profile Anti-Spyware Profile Intro + Default Clone and add exception for a new Anti-Spyware Anti-Spyware DNS Signatures and Sinkhole Anti-Spyware Sinkhole, DNS Signature and Exceptions File Blocking Profile Creating File Blocking Profile Blocking Multi-Level Encoding Data Filtering Profiles Data Filtering Profiles Demo Security Profile Group Demo Telemetry Dos Protection DoS Protection Part Deux DoS Protection Policies URL Filtering URL Filtering profile



# Safe Search Block Website with Custom URL Category URL Filtering Profile With Continue, Blocked, and Override

### Decryption

Intro
SSL/TLS Overview
Firewall Decryption Types
PKI, CA, Root CA
Looking at a real Certificate
CA Certificate Choices
Generate Certificate Lab
Forward Proxy Decryption
Configuring a Forward Trusted Certificate
Configuring Forward Untrusted Certificate
Configure SSL Forward Proxy Policy
Configure SSL Forward Proxy Profile
SSL Inbound Inspection
SSL Inbound Inspection Lab
Decryption

### WildFire

Intro
WildFire Intro
WildFire Email Protection



WildFire License
WF-500
Configuring WildFire Settings
WildFire Analysis Profile
Creating a WildFire Profile
WildFire

### User-ID

Intro
Intro to User-ID
User Mapping Methods
Syslog Monitoring
DC Monitoring ans Session Monitoring
Steps to configure User-ID
Active Directory and PC Enrollment
Configuring PAN-OS Integrated User-ID Agent
Windows Based Agent Configuration Steps
BONUS - Authenticating User with Domain Controller
User-ID

### GlobalProtect

GlobalProtect Intro GlobalProtect Connection Sequence Prima Access Clientless VPN



Custome Reports
PDF Summary Report
SaaS Application Usage Report
Report Group
Emailing Reports
Syslog
Add a Syslog Server Profile
SNMP
Monitoring and Reporting

### High Availibility

Intro
High availability Overview
Active/Passive
Active/Active
HA Prerequisites
Components and Operations
HA Backup Links
Designating a Firewall
Detecting Failure
HA Active/Pasisve Configuration
Configuring Link Groups
Configuring Link Groups Lab
Path Monitoring
Path Monitoring Lab
HA





### Panorama

### Initial Configuration Set Panorama Management Interface Device Groups and Template























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