Company Logo

IVA Institute of Technology

https://iva-institute.com/

info@iva-institute.com

Cisco ASA Firewall & Palo Alto NGFW

About This Training

Target Audience: Network Engineers, Security Engineers, SOC/NOC Professionals, Cyber-Security Students

Level: Beginner → Professional (Hands-on, Real-World Oriented)

Total Duration: 8–12 Weeks *(Flexible version also included below)*

Curriculum

#	Topic	Description
1	**Cisco ASA Firewall (ASA OS, ASDM, Firepower)**	opic Details ASA Architecture Hardware Models, ASA OS Overview, Licensing ASA Modes Routed vs Transparent, Policy Modeling Initial Configuration Console access, Basic Setup, Management Access □□ Labs Console login & basic configuration Configure inside/outside interfaces
2	**ASA Management & Administration**	ASDM vs CLI GUI/CLI comparison, installation, access User/AAA Local & RADIUS/TACACS authentication Backups Startup/Running config backup/restore □□ Labs ASDM installation & HTTPS remote access AAA integration with RADIUS

#	Topic	Description
3	**Access Control & Security Policies**	Access Rules ACLs, Object Groups, Ports, NAT-exempt Stateful Inspection Connection Table, TCP/UDP inspection Threat Detection Scanning, DoS protection □□ Labs Create ACL policies Implement object groups & service groups
4	**NAT (Static, Dynamic, PAT)**	NAT Types Static NAT, Dynamic NAT, PAT Twice NAT/Policy NAT When to use policy NAT Real World Scenarios Server publish, internet access models □□ Labs Internet access through PAT Host publishing using Static NAT
5	**VPN & Remote Access**	IPSec Site-to-Site VPN IKE Phases, Transform Sets Remote VPN AnyConnect, SSL VPN Troubleshooting Debug, Logs, Packet capture □□ Labs Configure Site-to-Site VPN between two ASAs Deploy SSL VPN + AnyConnect user access
6	**High Availability & Failover**	Active/Standby Sync, failover recovery test Active/Active Multi-context environments Health Monitoring Link/Unit failover logic □□ Labs Configure Active-Standby failover setup
7	**Firepower & IPS (Optional Advanced)**	Firepower Architecture FMC, FTD vs ASA, Sensor deployment IPS + URL Filtering Signatures, Malware defense Logging & Monitoring Syslog, SNMP, NetFlow, Monitoring □□ Labs Policy tuning in FMC IPS threat log analysis
8	**Palo Alto Next-Generation Firewall (PAN-OS)**	PAN-OS Architecture Dataplane/control-plane, ASIC, features Licensing Threat Prevention, URL Filtering, TP, GP Web-UI, CLI, Panorama Configuration path overview □□ Labs Initial device setup & GUI familiarization

IVA Institute of Technology

#	Topic	Description
9	**Networking & Interface Configuration**	Virtual Routers, Zones, VLANs L3/L2/Tap modes Routing Static, OSPF, BGP, Redistribution ARP, Routing table behaviour Flow logic □□ Labs Create security zones & interface profiles Static route configuration
10	**Security Policies & NAT**	App-ID, User-ID, Content-ID App signatures, user mapping Security Policy Rule Base Layer 7 control, objects, QoS NAT Policies Source NAT, Destination NAT, Bi-Directional NAT □□ Labs Create policies using App-ID Implement NAT translation rules
11	**Threat Prevention & URL Filtering**	IPS/IDS Vulnerability signatures Antivirus/Anti-spyware Sandbox & WildFire URL Categories Allowed/blocked groups □□ Labs Create URL filtering & malware protection security profiles
12	**VPN & GlobalProtect**	IPSec Site-to-Site Crypto profiles, IKE proposals GlobalProtect Portal/Gateway, Certificates MFA Integration Azure/AD/LDAP SSO □□ Labs GlobalProtect remote user VPN IPSec VPN with Cisco router/ASA
13	**High Availability & Panorama**	HA Modes Active/Passive & Active/Active Sync Path monitoring, preemption Panorama Template stacks, distributed deployment □□ Labs Configure HA pair failover Template push from Panorama

Fees

Regular: Tk. 16,000.00

Current: **Tk. 12,000.00**

IVA Institute of Technolo

Company Information

IVA Institute of Technology

Shawra Para, Dhaka, Bangladesh

Website: https://iva-institute.com/

Email: info@iva-institute.com

Contact:

Generated on: 02 Nov 2026, 18:17 PM

System Generated Document - IVA Institute of Technology

IVA Institute of Technolo