

Palo Alto Network Certified Software Firewall Engineer



Online Course



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Course Modules

1. Software Firewall Fundamentals

- Differentiate between software firewalls
 - VM-Series
 - CN-Series
 - Cloud next generation firewall (NGFW) (i.e., AWS and Azure)
 - Cloud-Delivered Security Services (CDSS) subscriptions
- Describe licensing options for software firewalls
 - Flex licensing
 - Pay-as-you-go (PAYG)
 - Enterprise License Agreement (ELA) subscriptions
 - Securing Environments with Software Firewalls 16%
- Describe methodologies for securing data centers
 - Segmentation
 - Virtualization
 - Application visibility and control
 - VPN connectivity controls
- Explain how traffic flow is secured in public cloud environments
 - Inbound controls
 - Outbound controls
 - East-west controls



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- Explain how traffic flow is secured in virtualized branch environments
 - Inbound controls
 - Outbound controls
 - East-west controls

2. Deployment Architecture

- Describe common VM-Series deployment models
 - Centralized
 - Distributed
- Google Cloud Platform (GCP) deployments
 - High availability (HA)
 - Autoscaling
 - Azure Gateway Load Balancer (GWLB)
 - Amazon Web Services (AWS) Gateway Load Balancer (GWLB)
 - Azure VNET
 - VWAN
- Describe VM-Series private cloud integrations
 - Virtual wire (vwire)
 - Layer 3 mode
- Describe CN-Series deployment methods
 - Daemonset
 - Kubernetes service
 - Container Network Function (CNF)
 - Hyperscale deployment mode



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3.Automation and Orchestration

- Describe software firewall management tools
 - Panorama for VM-Series and CN-Series
 - Helm charts and operators for CN-Series
 - Cloud NGFW interface for AWS
 - AWS firewall manager
- Describe software firewall automation tools
 - Ansible
 - Terraform
 - AWS CloudFormation template (CFT)

4.Technology Integration

- Intelligent Traffic Offload (ITO) integrates with VM-Series firewalls
 - Explain the deployment process for VM-Series software firewalls
 - GCP
 - Azure
 - AWS
 - Alibaba Cloud
- Deployment process for CN-Series software firewalls using Panorama
 - AWS
 - Azure



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5. Troubleshooting

- Troubleshoot CN-Series software firewalls
 - Deployment
 - Traffic
- Troubleshoot VM-Series software firewalls
 - Deployment
 - Traffic
- Troubleshoot Cloud NGFW software firewalls
 - Deployment
 - Traffic
- Troubleshoot Panorama plugins
 - Kubernetes
 - Public cloud (i.e., AWS, Azure, and GCP)
 - VMware vCenter
 - VMware NSX

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6.Management Plugins and Log Forwarding

- Describe Cloud NGFW log forwarding destinations
 - AWS Simple Storage Service (S3)
 - Kinesis
 - AWS CloudWatch
 - Azure Application Insight
 - Google Stack driver
- Describe use of management plugins
 - Public Cloud (i.e., AWS, Azure, and GCP)
 - Kubernetes
 - VMware vCenter
 - VMware NSX

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