

## **Implementing Advanced Cisco ASA Security (SASAA)**

### **Module 1: Cisco ASA Product Family**

- Introduction to ASA series firewalls
- Introduction to ASAv
- Deploy ASAv
- ASAv Other hypervisors support, digitally signed image and management options
- Verify ASAv VM
- ASA 9.2.1 BGP IPv6 support
- ASA 9.3 features
- ASA 9.4.1 + VXLAN support
- Describe the Cisco ASASM platforms, architecture, and features

### **Module 2: Cisco ASA Identity Firewall**

- ASA Identity Firewall benefits, flow and policies
- Cisco CDA basic network configuration
- Application status verification
- Active directory server configuration
- CDA user-account configuration
- CDA GUI password policy configuration
- Configure identity firewall policies on ASA
  - Using ASDM
  - Using CLI
- FQDN network object configuration
- Verify user-identity operations
- CDA management with CLI, live log monitoring and troubleshooting

### **Module 3: Cisco ASA Firepower Services**

- SFR introduction
- FireSIGHT management
- SFR management interface, package installation and verification
- FireSIGHT VM installation and setup
- License requirement
- Policy types introduction
- Recommended rules introduction
- Monitoring
- ASDM and Firepower on-box FireSIGHT manager
- Firepower dashboard, reporting, status and events viewer
- Licensing
- Firepower 6.0 features
- System configurations and device platform settings
- Firepower multidomain management

### **Module 4: Cisco ASA Cloud Web Security (CWS)**

- ASA with CWS introduction
- CWS scanning processes
- Licenses
- ASA with CWS integration
- CWS operations verification
- Verify traffic redirection
- Syslog messages
- ScanCenter web filtering policy introduction and configuration
- ASA CWS AMP introduction
- CWS cognitive threat analysis
- Threats reporting

### **Module 5: Cisco ASA Clustering**

- Cluster performance figures and supported platforms
- Cluster data-interface modes and connections
- CLL functions
- Cluster dynamic-routing, NAT and PAT operations
- Cluster terminology
- TCP, asymmetric UDP, short-lived and centralized-feature traffic flows
- Cluster management
- Configuration with the CLI
- Each unit configuration
- Master unit configuration
- Sample configuration of a two-unit cluster with spanned etherchannel and individual interface
- Configure ASA cluster using Cisco ASDM
- Cluster licensing
- Verification types
- Troubleshoot ASA cluster operations
- Cluster features of v9.1.4, v9.2.1, v9.3.1 and v9.4.1

### **Module 6: Cisco ASA Security Group Firewall and Change of Authorization (Optional)**

- Cisco secure access architecture
- SG Firewall configuration
- SGACL operations monitoring
- SGT features (post 9.0 releases)
- Change of authorization introduction
- Change of authorization CLI and ASDM configurations

### **Labs:**

- Access the Remote Cisco Learning Lab Environment
- Set Up and Test the ASA v
- Implement New Features in ASA 9.3 and 9.4
- Configure the Cisco CDA
- Configure ASA IDFW
- Cisco ASA Firepower Services Module Installation
- Cisco Firepower Management Center Configuration
- Configure ASA CWS
- Cisco ASA Cluster Configuration