

# Implementing Aruba Network Security (IANS)

ID IANS Preis CHF 3'990.— (exkl. MwSt.) Dauer 5 Tage

## Zielgruppe

Network engineer responsible for implementing security controls on enterprise networks. Candidate can describe the network security stack (firewall, proxy, remote access, IDS/IPS, access control, NTA, UEBA).

## Empfohlenes Training für die Zertifizierung zum

Aruba Certified Professional – Network Security (ACP-NS)

## Voraussetzungen

The following knowledge is recommended for this seminar:

Aruba recommends that the candidate has attended the [Aruba Network Security Fundamentals \(ANSF\)](#) course prior to attending this professional level course. Or have equivalent experience and knowledge of network security fundamentals.

## Kursziele

After you successfully complete this course, expect to be able to:

### 1. Protect and Defend

- Define security terminologies
- PKI
- Zero Trust Security
- WIPS & WIDS
- Harden devices Securing network infrastructure
- Securing L2 & L3 protocols
- Secure a WLAN
- Deploy AAA with CPPM
- Secure a wired LAN Deploy AAA with CPPM Deploy 802.1x Deploy certificate based authentication for users & devices Secure the WAN Understand Aruba's SD-Branch for automating VPN deployment Design and deploy VPN with Aruba's VIA client Classify endpoints Deploy endpoint classification to devices Integrate ClearPass and CPDI

### 2. Analyze

- Threat detection
- Investigate Central alerts
- Interpret packet captures
- Evaluate endpoint postures
- Troubleshooting
- Deploy and analyze results from NAE scripts
- Endpoint classification
- Analyze endpoint classification data to identify risks
- Analyze endpoint classification data on CPDI

### 3. Investigate

- Forensics
- Explain CPDI capabilities of showing network conversations on supported Aruba devices

## Kursinhalt

### ArubaSecurity Strategy&ClearPass Fundamentals

- Explain Aruba Zero Trust Security
- Explain how Aruba solutions apply to different security vectors

### Deploy TrustedCertificatestoArubaSolutions

- Describe PKI dependencies
- Set up appropriate certificates & trusted root CAs on CPPM

### Implement Certificate-Based802.1x

- Deploy AAA for WLANs with ClearPass Policy Manager (CPPM)
- Deploy certificate based authentication for users and devices

### Implement Advanced Policies one the Role-Based ArubaOS Firewall

- Deploy AAA for WLANs with ClearPass Policy Manager (CPPM)
- Define and apply advanced firewall policies

### Evaluate Endpoint Posture

- Evaluate different endpoint postures

## Implement a Trusted Network Infrastructure

- Set up secure authentication and authorization of network infrastructure managers, including,
- Advanced TACACS+ authorization
- Multi-factor authentication
- Secure L2 and L3 protocols, as well as other protocols such as SFTP

## Implement 802.1X and Role-Based Access Control on AOS-CX

- Deploy AAA for wired devices using ClearPass Policy Manager (CPPM), including local and downloadable roles
- Explain Dynamic Segmentation, including its benefits and use cases
- Deploy Dynamic Segmentation using VLAN steering
- Configure 802.1X authentication for APs

## Implement Dynamic Segmentation on AOS-CX Switches

- Explain Dynamic Segmentation, including its benefits and use cases
- Deploy Dynamic Segmentation, including:
- User-based tunneling (UBT)
- Virtual network-based tunneling (VNBT)

## Monitor with Network Analytics Engine (NAE)

- Deploy and use Network Analytics
- Engine (NAE) agents for monitoring

## Implement WIDS/WIPS

- Explain the Aruba WIPS and WIDS technology
- Configure AP rogue detection and mitigation

## Use CPPM and Third-Party Integration to Mitigate Threats

- Describe log types and levels and use the CPPM Ingress Event Engine to integrate with third-party logging solutions
- Set up integration between the Aruba infrastructure and CPPM, allowing CPPM

## Implement Device Profiling with CPPM

- Explain benefits and methods of endpoint classification on CPPM, including active and passive methods
- Deploy and apply endpoint classification to devices
- Analyze endpoint classification data on CPPM to identify risks

## Introduction to ClearPass Device Insight

- Define ClearPass Device Insight (CPDI)

- Analyze endpoint classification data on CPDI

## Deploy ClearPass Device Insight

- Define and deploy ClearPass Device Insight (CPDI)
- Analyze endpoint classification data on CPDI

## Integrate CPDI with CPPM

- Integrate ClearPass Policy Manager (CPPM) and ClearPass Device Insight (CPDI)
- Mitigate threats by using CPDI to identify traffic flows and apply tags and CPPM to take actions based on tags

## Use Packet Captures to Investigate Security Issues

- Perform packet capture on Aruba infrastructure locally and using Central
- Interpret packet captures

## Establish a Secure Remote Access

- Explain VPN concepts
- Understand that Aruba SD-WAN solutions automate VPN deployment for the WAN
- Describe the Aruba 9x00 Series Gateways
- Design and deploy remote VPNs using Aruba VIA

## Configure Aruba Gateway IDS/IPS

- Describe the Aruba 9x00 Series Gateways
- Define and apply UTM policies

## Use Central Alerts to Investigate Security Issues

- Investigate Central alerts
- Recommend action based on the analysis of Central alerts

**Weltweite Trainingscenter**



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