



# Palo Alto Network Security

## COURSE OUTLINE



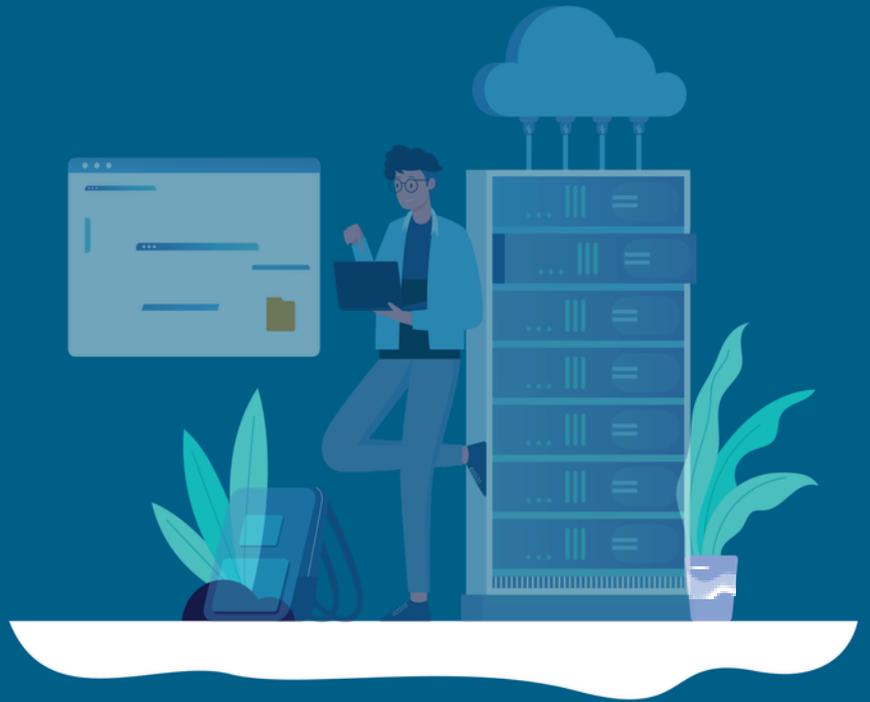
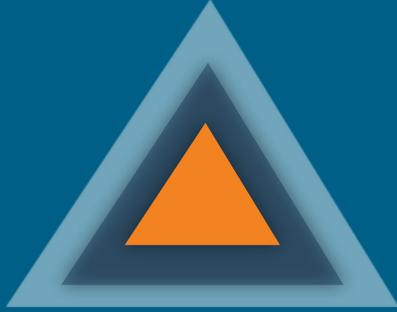
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**NS3EDU: BRIDGE**  
YOUR

**IT DREAMS**  
TO REALITY



## EMPOWERING CAREERS THROUGH KNOWLEDGE

Looking to make it big in the world of IT networking? Look no further than NS3Edu! We help beginners learn the ropes & experienced pros master new skills. Come join us and build your dream career!

## CERTIFICATES



## MISSION

The mission of NS3Edu is to

empower our candidates with in-depth knowledge of IT fundamentals along with real-time industry experience and also take 100% responsibility for the placement by making them Industry fit.

## VISION

In-depth knowledge + hands-on experience + analytical thinking = placement



Learning



Opportunity



Experience



Career



# ROADMAP OF JOB

# PLACEMENT

Confused  
in **Different**  
Career Options



**Qualifies-** Job  
Placement

**Career Diagnosis**  
System



Opportunities for  
**Job Placement**

**Counselling & Demo**  
sessions



Screening by **Corporate HR**  
& **Tech Team**

Student **Enrollment &**  
**Induction** session



2 Week **Technical**  
Task Training

Course Kick off  
**(Live Classes)**



**NS3 Tech** Industrial  
Exposure

Access to Recorded  
Sessions,  
**E book & Lab Manual**



**Course Completion**

# WHAT MAKES US UNIQUE?

## USP'S

Industry Demand & Customized Courses



# Course Outline

## LEVEL 1: Palo Alto & Network Security Fundamentals (Beginner Level)

### Part 1: Network Security Basics

- Network Security Overview
- Traditional Firewall vs NGFW
- Security Threat Landscape
- Zero Trust Security Model
- Enterprise Security Challenges

### Part 2: Palo Alto Networks Overview

- Palo Alto Networks Introduction
- PAN-OS Architecture
- Control Plane vs Data Plane
- Management Plane
- Palo Alto Product Portfolio

### Part 3: Firewall Deployment Basics

- Palo Alto Firewall Models (VM / Hardware)
- Deployment Modes (Layer 3, Layer 2, Virtual Wire)
- Initial Setup & Management Access
- Interface Configuration

## **Part 4: Security Zones & Policies**

- Security Zones Concept
- Security Policy Rule Structure
- Rule Matching Logic
- Best Practices for Rule Design

# **LEVEL 2: NGFW Features & Enterprise Security (Professional Level)**

## **Part 5: App-ID, User-ID & Content-ID**

- App-ID (Application Identification)
- User-ID Integration (AD / LDAP)
- Content-ID Overview
- Security Policy Based on Apps & Users

## **Part 6: NAT & Routing**

- Source & Destination NAT
- NAT Rule Design
- Static & Dynamic Routing
- Firewall as Router

## **Part 7: Threat Prevention**

- Anti-Virus & Anti-Spyware
- Vulnerability Protection
- URL Filtering
- WildFire Overview
- Security Profiles Configuration

## **Part 8: VPN Technologies**

- IPsec Site-to-Site VPN
- Remote Access VPN
- Global Protect Architecture
- VPN Troubleshooting

# **LEVEL 3: Advanced Palo Alto Security & SOC Integration (Expert Level)**

## **Part 9: Advanced Security Features**

- Decryption (SSL Forward & Inbound)
- DoS Protection
- Zone Protection Profiles
- Data Filtering

## **Part 10: Monitoring & Logging**

- Traffic Logs
- Threat Logs
- System Logs
- Log Analysis & Correlation
- Report Generation

## **Part 11: High Availability & Scalability**

- HA Concepts
- Active-Passive & Active-Active
- HA Failover Scenarios
- Backup & Restore



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## **Part 13: Automation & APIs**

- Palo Alto Automation Overview
- PAN–OS APIs
- Security Policy Automation
- Introduction to Python for Palo Alto

## **Part 14: Real–World Enterprise Projects**

- Secure Enterprise Firewall Deployment
- Zero Trust Network Implementation
- VPN + Threat Prevention Project
- SOC–Based Incident Handling
- Firewall Troubleshooting Scenarios

## **Part 15: Career & Certification Preparation**

- Palo Alto Security Engineer Roles
- PCNSA / PCNSE Certification Overview
- Interview Questions & Scenarios
- Resume & Project Portfolio Guidance
- Mock Interviews

# Tools & Technologies Covered

- Palo Alto NGFW (PAN-OS)
- GlobalProtect
- WildFire
- URL Filtering
- VPN Gateways
- Wireshark
- SIEM (Intro)
- Python (Intro)

# OUR PLACEMENT PARTNERS



## YOUR FUTURE OUR RESPONSIBILITY



Free consulting



Get trained with certified trainers



24X7 Lab access



Employability enhancement program



info@ns3edu.com



www.ns3edu.com



+91-9821442746



3rd Floor, B9, Block B,  
Old DLF Colony, Sector 14,  
Gurugram, Haryana 122007



NETWORK SECURITY



CYBER SECURITY



CLOUD SERVICE



FULL STACK DEVELOPMENT



DIGITAL MARKETING



DATA SCIENCE



AI ML LEARNING