CYBER A1

INDUSTRY READY TRAINING FOR NETWORK ENGINEER

Certification | Hands-on Exposure

Research Project | LiveTasks

60 + Hour Training

Currently Online

Who is this Training For?

- For individuals who wants to pursue their career in Network Engineer , System Engineer (IT and Computer Networking) and gain professional hands on experience of the industry needs.
- This program is specially designed for beginner as well as intermediate in Networking.
- This Training- is for individuals, who wants to learn and explore real world Networking skills.
- This is not just a certification course, but also a Training program which will help you transfer skills to CCNA, CCNP, Fortigate, Cyber Security and other hands-on certifications.

Description

The role of Network Engineer is very importent, the main role being played by the network admin, whose duties include conducting operations and maintaining the entire infrastructure of the connected devices and troubleshooting network problems. Network admins seem to enjoy their job, considering the fact that there is very little that they have to do in regards to distressing complex systems. Network engineers and those pursuing the same through after graduation courses are always up to expanding their knowledge and understanding of the platform, software applications, networks and various other facets of a networking career.

Job Security:

It is a fact that, the need for a network engineer is never ending, so even if your job role or duties change a bit, there's nothing you need to worry about, you know why? Network engineers have and will continue to relish excellent job security today and in future.

Prerequisites

- Basic IT Skills
- Computer with a minimum of 4GB ram/memory.
- Operating System: Windows / OS X / Linux.

What does this Training include?

- Identify the components of a computer network and describe their basic characteristics
- Understand the model of host-to-host communication
- Describe the features and functions of the Cisco Internetwork Operating System (IOS) software
- Describe LANs and the role of switches within LANs
- Describe Ethernet as the network access layer of TCP/IP and describe the operation of switches
- Install a switch and perform the initial configuration
- Describe the TCP/IP Internet layer, IPv4, its addressing scheme, and subnetting
- Describe the TCP/IP Transport layer and Application layer
- Address Resolution Protocol ARP.

- Explore functions of routing
- Implement basic configuration on a Cisco router
- Explain host-to-host communications across switches and routers
- Describe the operation, benefits, and limitations of static routing
- Describe, implement, and verify Virtual Local Area Networks (VLANs) and trunks
- Configure and verify Layer 2 discovery protocols.
- Spanning Tree Protocol
- Rapid PVST
- Describe the application and configuration of inter-VLAN routing
- Explain the basics of dynamic routing protocols and describe components and terms of Open Shortest Path
- First (OSPF)
- Explain how Spanning Tree Protocol (STP) and Rapid Spanning Tree Protocol (RSTP) work
- Configure link aggregation using EtherChannel
- Describe the purpose of Layer 3 redundancy protocols
- Describe basic WAN and VPN concepts

What does this Training include?

- Explain Virtualization Fundamental
- Docker
- Define key security concepts threats, vulnerabilities etc.
- Configure and verify access control lists.
- Describe remote access and site-to-site VPNs.
- Differentiate authentication, authorization & accounting.
- Configure Layer 2 security features DHCP snooping etc.
- Configure Layer 2 security features Port Security.
- Describe the operation of Access Control Lists (ACLs) and their applications in the network
- Configure Internet access using Dynamic Host Configuration Protocol (DHCP) clients and explain and configure Network Address Translation (NAT) on Cisco routers
- Describe basic Quality of Service (QoS) concepts
- Describe the concepts of wireless networks, and how to use
  - Wireless LAN Controllers (WLCs)
- Describe network and device architectures and introduce virtualization
- Configure basic IOS system monitoring tools
- Describe the management of Cisco devices
- Describe the current security threat landscape
- Describe threat defense technologies
- Implement a basic security configuration of the device management plane
- Implement basic steps to harden network devices

What does this Ethical Hacking-Training include?

Lab outline

Get Started with Cisco Command-Line Interface (CLI)

Observe How a Switch Operates

Perform Basic Switch Configuration

Implement the Initial Switch Configuration

Inspect TCP/IP Applications

Configure an Interface on a Cisco Router

Configure and Verify Layer 2 Discovery Protocols

Implement an Initial Router Configuration

Configure Default Gateway

Explore Packet Forwarding

Troubleshoot Switch Media and Port Issues

Troubleshoot Port Duplex Issues

Configure and Verify IPv4 Static Routes

Implement IPv4 Static Routing

Configure VLAN and Trunk

Troubleshoot VLANs and Trunk

Configure a Router on a Stick

Implement Multiple VLANs and Basic Routing Between the VLANs

Configure and Verify Single-Area OSPF

Configure and Verify EtherChannel

What does this Training include?

Improve Redundant Switched Topologies with EtherChannel

Configure and Verify IPv4 ACLs

Implement Numbered and Named IPv4 ACLs

Configure a Provider-Assigned IPv4 Address

Configure Static NAT

Configure Dynamic NAT and Port Address Translation (PAT)

Implement PAT

Log into the WLC

Configure a DHCP Scope

Configure a WLAN

Define a Remote Access Dial-In User Service (RADIUS) Server

Configure and Verify NTP

Create the Cisco IOS Image Backup

Configure WLAN Using Wi-Fi Protected Access 2 (WPA2) Pre-Shared Key (PSK) Using the GUI

Secure Console and Remote Access

Enable and Limit Remote Access Connectivity

Secure Device Administrative Access

Configure and Verify Port Security

Etc.....

What does this Training include?

Security Topic

- Common security principles
- Common security threats
- Cryptography concepts
- Network Principles
- Secure management
- Security on Cisco routers
- Securing routing protocols
- Securing the control plane
- Common Layer 2 attacks
- VLAN security
- VPN
- Remote access VPN
- Site-to-site VPN
- Fortigate Firewall (NSE 4)

Bonus Lecture (10 Hours)

ALL TOPIC ON PRACTICAL LAB

What is the career path after Trainning?

The top organizations like such as Infosys, Wipro, TCS, Tech Mahindra, IBM etc. are seeking good Network Engineer . network engineers can work at major corporations and international commercial enterprises. Usually, a network engineer has a focus such as designing, performance management or reporting. Career growth and opportunities are ample in the IT industry and consequently in the domain of network engineering.
As the world moves towards greater inter-connectivity, the demand for network engineers for development, maintenance and optimization of network systems is likely to remain stable, if not increase.

What is the next step after this Trainning?

So You Are ready to work as Network Engineer Lvl 1 and as well as Lvl 2 Engineer

Online Interactive Classroom with dedicated Faculty

The course fee is Rs- 7000/

LIMITED TIME OFFER

Secure The Digital