Dell Networking Foundations

Z Zetlan Technologies

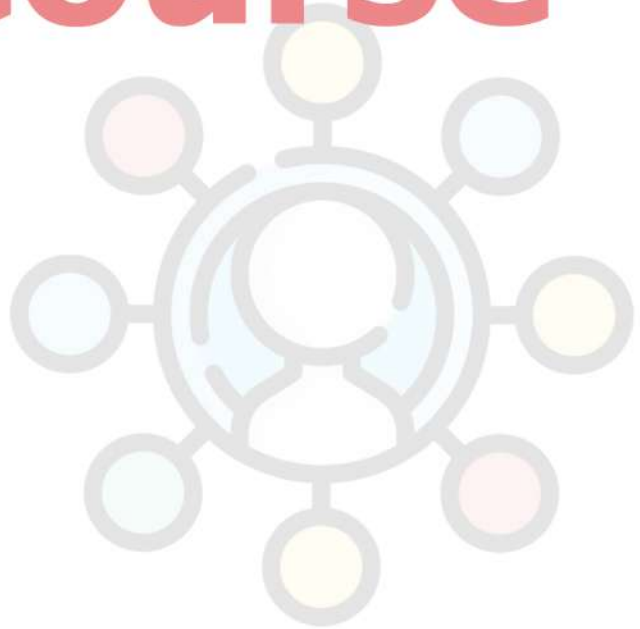# Online Course

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Course Modules

1. Networking Essentials
- Explain the purpose and function of network devices
- Distinguish between interface and cabling options
- Describe the steps & settigs used for the initial config of a switch

2. Ethernet Technologies
- Describe how Ethernet addressing and framing operates
- Describe the operation & behavior of LLDP, VLANs, STP, and LAG
- Idntfy the commands to config & verify LLDP, VLANs, STP, & LAG
- Describe common storage networking features and benefits

3. IP Networking
- Identify the differences between private and public IP addressing
- Describe the properties of IPv4 addressing
- Describe the IPv6 address format and types of IPv6 address
- Explain the forwarding logic used by Layer 3 capable devices
- Identify the differences between static and dynamic routing

4. Network Services
- Identify the commands to config & verify the operation of DHCP
- Describe the operation and behavior of the NTP service
- Identify the commands to config and verify the operation of NTP

5. Security Essentials

- Describe the options for securing access to a network switch
- Identify the commands used to configure local authentication
- Describe the use and configuration of ACLs

6. Network Operations

- Identify the commands to transfer files to/from switches
- Identify common connectivity problems and their solutions
- Outline the recommended steps during a switch OS upgrade
- Identify the commands to enable a switch for SNMP monitoring

7. Automation

- Explain the role and advantages of using Smart Fabric Services
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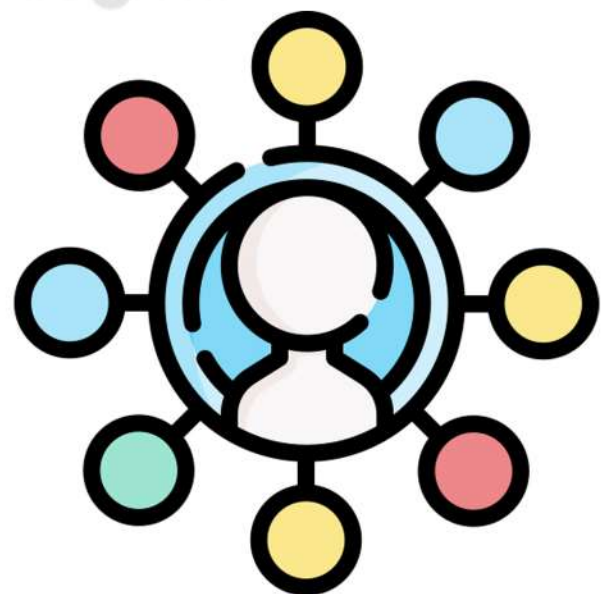
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