DEVCOR – Cisco Certified DevNet Expert

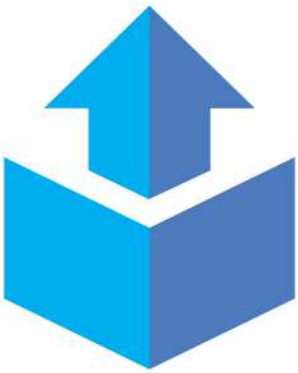
Zetlan Technologies

Online Course

ZETLAN TECHNOLOGIES

www.zetlantech.com

Course Modules



1. Software Design, Development, and Deployment

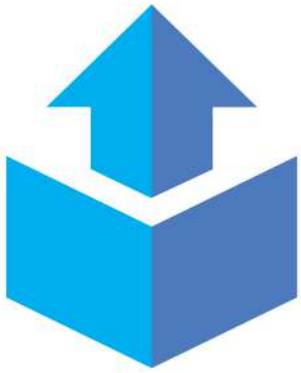
- Design a solution based on an on-premises, hybrid
- Deployment: maintainability, modularity (e.g., containers, VM, etc)
- Reliability: high availability and resiliency
- Performance: scalability, latency, and rate limiting
- Infrastructure: monitoring, observability, and metrics
- Recommend a deployment strategy to mitigate risk & impact
- Modify an existing network automation solution
- Use Git in a CI/CD development workflow
- Troubleshoot issues with a CI/CD pipeline

2. Infrastructure as Code

- Create a scalable solution for infrastructure automation
- Build, & operate a Python-based REST API with a web app framewrk
- Build, manage, and operate a Python-based CLI application
- Consume and use a new REST API, given the documentation
- Create a RESTCONF or NETCONF payload based on a given YANG
- Create a NETCONF filter by using XPath
- Configure network devices on an existing infrastructure

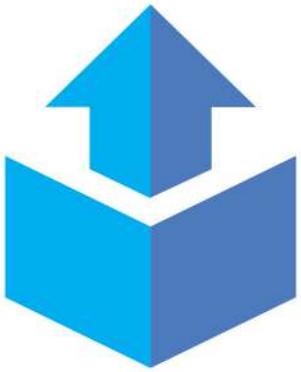
DEVCOR – Cisco Certified DevNet Expert

- Create & use a role by utilizing Ansible to manage infrastructure
- Loop control
- Conditionals
- Use of variables and templating
- Use of conecton plug-ins such as network CLI, HTTPAPI, & NETCONF
- Use Terraform to state fully manage infrastructure
- Loop control
- Resource graphs
- Use of variables
- Resource retrieval
- Resource provision
- Management of the state of provisioned resources
- Create a basic Cisco NSO srvc pckg to meet given business & tchncl
- Create a service template from a provided NSO device configuratn
- Create a basic YANG module for the service containers
- Create basic actions to verify operational status of the service
- Monitor service status by reviewing the NCS Python VM log file



3. Network Programmability and Automation

- Create, modify, and troubleshoot scripts by using Python libraries
- Automate the configuration of a Cisco IOS XE network device
- Interfaces
- Static routes
- VLANs
- Access control lists
- BGP peering
- BGP and OSPF routing tables
- BGP and OSPF neighbors



- Deploy an app on a Cisco IOS XE device by leveraging the tchnlgies
- Modify & tshoot an automated test by usg pyATS to meet rqirmnts
- Create a testbed file fr conctg to Cisco IOS, IOS XE, or NX-OS devices
- Gather current configuration and operational state from devices
- Dvlp & execute tst jobs & scripts using AEtest to verify ntwrk health
- Design a model-driven telemetry soln basd on given business
- Create YANG model-driven telemetry subscriptions
- Identify model elements and cadence
- On-change or event drive
- Optimize frequency
- Dial-out subscription
- Secure telemetry streams
- Confirm data transmission
- Identify network issues and make changes Containers

DEVCOR – Cisco Certified DevNet Expert

- Create a Docker image (including Docker file)
- From a provided image
- Expose ports
- Add or copy files
- Run commands during image build
- Manipulate entry point and initial commands
- Establish working directories
- Environment variables as part of a definition to ctrl an application
- Docker ignore file
- Volumes
- Package and deploy a solution by using Docker Compose
- Deploy and manage containers
- Define services, networks, volumes, and links
- Package and deploy a solution by using Kubernetes
- Use deployments, secrets, services, ingress, volumes, etc.,
- Manage the lifecycle of pods (e.g., scale up, scale down, etc.,
- Monitor pods by building health checks)
- Use the kubectl interface
- Create, consume, and tshoot a Docker host & bridge-based netwrks

Zetlan Technologies

LEARN REMOTELY!!

The efficiency of online learning in terms of time management, flexibility, and the ability to access resources anytime, anywhere can be compelling.

ZETLAN TECHNOLOGIES

www.zetlantech.com

For contact: +91 8680961847
+91 9600579474