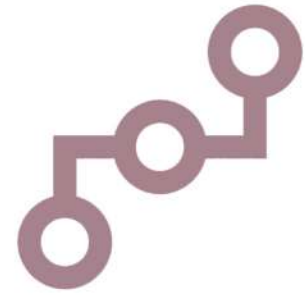


# DEVCOR – Cisco Certified DevNet Professional



# Online Course

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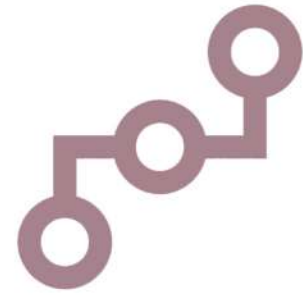


## Course Modules

### 1. Software Development and Design

- Distribute app to the concepts of front-end, back-end, & load balancing
- Evaluate an application design considering scalability & modularity
- Application design considering high-availability and resiliency
- Evaluate an application design considering latency and rate limiting
- Application design and implementation considering maintainability
- Application design and implementation considering observability
- Diagnose problems with an app given logs related to an event
- Choice of database types with respect to application requirements
- Explain architectural patterns (monolithic, services oriented, etc)
- Utilize advanced version control operations with Git
  - o Merge a branch
  - o Resolve conflicts
  - o Git reset
  - o Git checkout
  - o Git Reverts
- Explain the concepts of release packaging & dependency management
- Construct a sequence diagram that includes API calls





## 2. Using APIs

- Implement robust REST API error handling for time outs & rate limits
- Control flow of consumer code for unrecoverable REST API errors
- Identify ways to optimize API usage through HTTP cache controls
- Construct an app that consumes a REST API that supports pagination
- The steps in the OAuth2 three-legged authorization code grant flow

## 3. Cisco Platform

- Construct API requests to implement chatops with Webex API
- API requests to create & delete objects using Firepower device management
- API requests using the Meraki platform to accomplish these tasks
  - Use Meraki Dashboard APIs to enable an SSID
  - Use Meraki location APIs to retrieve location data
- Construct API calls to retrieve data from Intersight
- Construct a Python script using the UCS APIs to provision a new UCS
- Construct a Python script using the Cisco DNA center APIs
- The capabilities of AppDynamics when instrumenting an app
- Describe steps to build a custom dashboard to present data collection



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## 4. Application Deployment and Security

- Diagnose a CI/CD pipeline failure (such as missing dependency)
- Intgrt an app into a prebuilt CD envrmnt levrg Docker,& Kubernetes
- Benefits of continuous testing & static code analysis in a CI pipeline
- Utilize Docker to containerize an application
- Describe the tenets of the "12-factor app"
- Describe an effective logging strategy for an application
- Explain data privcy concerns related to storage & transmissn of data
- Identify the secret storage approach relevant to a given scenario
- Configure application specific SSL certificates
- Implement mitigation strategies for OWASP threats
- Describe how end-to-end encryption principles apply to APIs

## 5. Infrastructure and Automation

- Explain considerations of model-driven telemetry
- Utilize RESTCONF to configure a network device
- Construct a workflow to configure network parameters with:
  - o Ansible playbook
  - o Terraform
- Config mngmnt soln to achieve technical and business requiremets
- Describe how to host an application on a network device

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