DevOpsSchool
Lets Learn, Share & Practice DevOps

Day - 1	Day - 2

Day - 1

- **Welcome and Introductions**
  - Overview of the course and objectives
  - Participant introductions and expectations

- **Understanding HashiCorp Consul**
  - Introduction to service networking
  - Overview of Consul architecture and components (agents, servers, and data centers)

- **Setting Up Consul**
  - Installation and configuration of Consul
  - Configuring a Consul cluster

- **Hands-On Lab: Deploying Consul**
  - Guided lab to install and set up a Consul cluster

- **Service Discovery Fundamentals**
  - Registering services with Consul
  - Discovering services using the Consul UI and API

- **Hands-On Lab: Service Discovery**
  - Hands-on exercises to register and discover services using Consul

Day - 2

- **Implementing Health Checks**
  - Importance of health checks
  - Configuring and using health checks in Consul

- **Working with the Key-Value Store**
  - Overview of the Consul key-value store
  - Use cases and best practices for managing configuration data

- **Hands-On Lab: Health Checks and Key-Value Store**
  - Exercises to implement health checks and manage key-value pairs

- **Security in Consul**
  - Introduction to Access Control Lists (ACLs)
  - Encrypting communication between Consul agents

- **Hands-On Lab: Implementing Security**
  - Configuring ACLs and encryption in a Consul cluster

- **Hands-On Lab: Service Discovery**
  - Hands-on exercises to register and discover services using Consul
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Day - 3

- **Introduction to Consul Connect**
  - Overview of service mesh concepts
  - Configuring secure service-to-service communication

- **Troubleshooting Consul**
  - Common issues and troubleshooting techniques
  - Monitoring and logging in Consul

- **Hands-On Lab: Consul Connect and Troubleshooting**
  - Practical exercises on implementing Consul Connect and troubleshooting issues

- **Exam Preparation**
  - Overview of the HashiCorp Certified: Consul Associate exam format
  - Review of key concepts and study tips

- **Final Q&A and Wrap-Up**
  - Open forum for questions and clarifications
  - Review of resources for further study and certification preparation