

Day - 1

- **Introducing HashiCorp Nomad**

- What Is Nomad?
- Nomad Features and Other Integrations
- Nomad Versus Other Products
- Terms and Definitions in Nomad
- Use-case: Wired Brain Coffee

- **Exploring the Nomad Architecture**

- Nomad Architectural Concepts
- Nomad Job Workflow
- On-premises Environment Example
- Cloud-based Nomad Deployment on AWS
- Nomad Dependencies
- Demo: Checking Cluster and Node Status

- **Learning About the Nomad Scheduler**

- The Art of Optimistic Concurrency
- Inside the Nomad Scheduler
- Nomad by Comparison
- Demo: Planning and Evaluation

Day - 2

- **Learning the Fundamentals of the Consensus Protocol**

- Fundamentals of Consensus Protocol
- The Raft Protocol
- Demo: Checking Cluster and Node Status

- **Getting to Know the Gossip Protocol**

- Getting to Know the Gossip Protocol
- What Is Gossip Protocol?
- The Basics of Serf
- Cluster State Handling in Nomad
- Failure Detection and Recovery
- Demo: Detecting a Failed Node

- **Creating and Monitoring Nomad Jobs**

- Creating and Monitoring Nomad Jobs
- The Nomad Job Specification
- Regions and Datacenters
- Environment Variables
- Nomad Job Workflow
- Demo: Job Submission and Job validation
- Demo Commands: Submitting a Nomad Job
- Demo: Nomad Job Inspect
- Managing Nomad Jobs
- Demo: Stop Jobs and Trigger Evaluations

Day - 3

- **Exploring Nomad Use-cases**

- Exploring Nomad Use-cases
- Ephemeral Containers on Nomad
- Persistent, Stateful Workloads on Nomad
- Batch Workloads on Nomad
- The Wired Brain Coffee Use-case
- Nomad: The Bigger Value Picture