

OPEN NEBULA TRAINING

Section 1 : Open Nebula Overview

- Introduction to Open Nebula
- Install and Configure the file
- Creating a KVM Virtual Machine
- How to Launch a Virtual Machine

Section 2 : Introduction to Distributed systems

- Infrastructure as a Service
- The Open Nebula Model
- Storage for the Private Cloud
- Networking for the Private Cloud
- Virtual Networks

Section 3 : Remote Procedure call

- Introduction to RPC Programming
- Implementing Remote Procedure call
- Transaction on computer systems

Section 4 : Remote Method Invocation

- What is Remote Method Invocation?
- Implementation of RMI
- Defining a server class
- Accessing remote objects

Section 5 : Message and Stream Oriented communication

- Explain the Message Oriented communication
- Explain the Stream Oriented communication
- Difference between Message and Stream Oriented protocols

Section 6 : Processes and Threads

- Understanding Process and Threads
- Threads Vs Process

- Dispatching

Section 7 : Code Migration and Distributed Scheduling

- How does code migration occur?
- Sender and Receiver Initiated
- Understanding the Symmetric

Section 8 : Synchronization

- What is Synchronization?
- Implementation of Synchronization
- Data synchronization
- Data security
- Performance

Section 9 : Distributed mutual exclusion and Deadlock

- Introduction to Distributed mutual exclusion
- Types of Mutual exclusion
- A Distributed algorithm for Mutual Exclusion
- Deadlock in Distributed systems

Section 10 : Distributed Transaction

- What does Distributed Transaction?
- Types of operation in Distributed Transaction
- DTC's two phase commit algorithm

Section 11 : Consistency models

- Introduction to Consistency models
- Data Centric Consistency models
- Client Centric Consistency models

Section 12 : Distributed commit and failure recovery

- Two phase commit protocol in distributed systems
- Explain the Concurrency problems
- Understand the Concurrency controls

Section 13 : Security in distributed systems

- Introduction to Security
- Secure channels
- Access controls
- Security Management

Section 14 : Security – Authentication

- What is Authentication?
- Web client and Sunstone server
- Sunstone server and OpenNebula core
- Configure a SSL Proxy

Section 15 : Distributed middleware : CORBA

- Introduction to CORBA
- Designing CORBA Systems
- Implementing CORBA Applications

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