

Mock preparation Guidelines



3 V's of SUCCESS and Patience.

1. Communication
2. Confidence
3. Consistency
4. Patience

Make sure before appearing for mock interviews, you should make a group of at least 3 members and start practicing communicating in English, have confidence on what you are speaking, be consistent with the technology and have patience and wait for your turn.

Below are the guidelines for Mock preparations and technical things you need to cover before appearing for real time interviews.

I have divided the process of preparations into several milestones as below.

1. Install:

Demonstrate understanding of Installation process for Cloudera Manager, CDH, and the Ecosystem project.

- A. Setup a Local CDH repositories.
- B. Perform OS level configurations for Hadoop installations.
- C. Install Cloudera Manager Servers and Agents.
- D. Install CDH using Cloudera Manager.
- E. Add a new node to an existing cluster.
- F. Add a service using Cloudera Manager.
- G. Install Apache Hadoop multimode on virtual machine.
- H. Install cloudera manager in multimode environment.
- I. Cloudera manager upgrade.
- J. Cloudera navigator installation and configuration.
- K. Multi-Tenant Operations YARN Cluster Utilization Reporting
- L. Tuning yarn applications
- M. Uninstalling Cloudera Manager and Managed Software.

2. Configure:

Perform basic and advanced configuration needed to effectively administer a Hadoop cluster.

- A. Configure a service using Cloudera Manager.
- B. Create an HDFS user's home directory.
- C. Configure NameNode HA.
- D. Configure ResourceManager HA.
- E. Configure Oozie HA (High Availability)
- F. Configure proxy for Hiveserver2/Impala
- G. Authenticate Hue with LDAP
- H. Backing up Data Using Cloudera Manager.
- I. change heart beat settings in cloudera server.
- J. Cloudera Manager Managing User Roles.
- K. HDFS Snapshot management using Cloudera Manager.
- L. Permission and Ownership on cloudera manager.
- M. Installation and Configuration of Open LDAP.
- N. Integrating HUE with open LDAP Server.
- O. Adding YARN Service using Cloudera Manager.
- P. Adding Zookeeper service using Cloudera Manager.
- Q. JDK upgrade using Cloudera Manager.
- R. Upgrading Cloudera Manager from Expression to Enterprise Edition
- S. HDFS Backup and Disaster Recovery using Cloudera BDR
- T. Configuring Hive Metastore High Availability using Cloudera
- U. Configure Hiveserver2 High Availability & Load Balancing

3. Manage:

Maintain and modify the cluster to support day-to-day operations in the enterprise.

- A. Rebalance the cluster
- B. Set up alerting for excessive disk fill
- C. Install new type of I/O compression library in cluster
- D. Revise YARN resource assignment based on user feedback
- E. Commission/decommission a node
- F. YARN - FIFO Scheduler
- G. YARN - Capacity Scheduler

4. Secure

Enable relevant services and configure the cluster to meet goals defined by security policy; demonstrate knowledge of basic security practices.

- A. Configure HDFS ACLs
- B. Install and configure Sentry
- C. Configure Hue user authorization and authentication
- D. Enable/configure log and query redaction
- E. Create encrypted zones in HDFS
- F. HDFS Commands
- G. Configuring Sentry for Hive Authorization
- H. Enabling TLS encryption from cloudera agents to server.

5. Test

Benchmark the cluster operational metrics, test system configuration for operation and efficiency.

- A. Execute file system commands via HTTPFS
- B. Efficiently copy data within a cluster/between clusters
- C. Create/restore a snapshot of an HDFS directory
- D. Get/set ACLs for a file or directory structure
- E. Benchmark the cluster (I/O, CPU, network)
- F. HDFS Snapshot management using Cloudera Manager
- G. HDFS Snapshot Management using command prompt

6. Troubleshoot

Demonstrate ability to find the root cause of a problem, optimize inefficient execution, and resolve resource contention scenarios.

- A. Resolve errors/warnings in Cloudera Manager
- B. Resolve performance problems/errors in cluster operation
- C. Determine reason for application failure
- D. Configure the Fair Scheduler to resolve application delays
- E. Cloudera Manager Troubleshoot Query Performance
- F. Dynamic Resource Pool Configuration
- G. Enable Kerberos in Cloudera manager

Practice is the only thing to strengthen your technical skills. Be Positive, be positive, Be energetic, Everything will come to you on right time so play with ELEPHANT and enjoy.