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Apache mesos interview questions

Apache Mesos is a type of open-source software that is used to manage computer clusters. This type of software has been developed by the University of California, Berkeley. Its main motto is to distribute potent resources isolation and sharing across the distributed frameworks or the applications. The companies that use the Apache Mesos are Twitter, Airbnb, Media crossing, Xogito, and Categorize. There are some of the **Apache Mesos interview questions and answers** that will help you a lot in gaining more knowledge about it.

Apache Mesos software has been built on the same principle on which the Linux Kernel has been built. Nowadays, Apache Mesos has been adopted by numerous companies. One of the most famous companies that use these types of software is Apple. Apache Mesos also provide faster application performance. Below are some of the **Apache Mesos Interview Questions and Answers**.

Q1. What are the other projects of Apache?

The following are the other projects of the Apache:

- Apache Mesos
- Apache Kafka
- Apache spak
- Apache Hadoop
- Apache Cassandra
- Apache Http server
- Apache Flink

Q2. What is Apache Mesos?

Apache Mesos is an open source type of software. Apache Mesos is a cluster manager that handles the workloads of the distributed environment through dynamic resource sharing and isolation. The reputed companies like Twitter, Airbnb and Xogito uses the Apache Mesos.

Q3. What are the languages been supported by Apache Mesos?

The following are the languages been supported by Apache Mesos:

- Scala
- Java

- Python
- R

Among the above languages the Scala and Python are mostly used.

Q4. In which things the Apache Mesos mostly run?

The Apache Mesos mostly runs on Linux and Mac OSX.

Q5. What are the differences between Mesos and YARN?

The following are the difference between Mesos and YARN:

- Mesos has the specification to manage all the resources that are present in the data centre whereas, YARN can carefully manage the Hadoop job but they cannot manage the entire data centre.
- Mesos are written in C++ whereas the YARN is written in Java language.
- Mesos uses the Linux Container group but YARN uses the simple UNIX processes.
- In Mesos, you are needed to deal with the security whereas, YARN inherits Hadoop security.
- Mesos have a lower level of abstraction but the YARN can run on Mesos also.

Q6. What are the components of the Apache Mesos?

The following are the main components of the Apache Mesos:

- Zookeeper
- Mesos Masters
- Mesos Slaves
- Frameworks
- Chronos, Marathon
- Aurora
- Hadoop
- Jenkins
- Spark
- Torque

Q7. What is zookeeper in Apache Mesos?

Zookeeper is a type of the fundamental components of DC and OS. It depends on both the Apache Mesos and Marathon.

Q8. What is Aurora in Apache Mesos?

Aurora is a type of service scheduler that has the ability to run on the top of Mesos. It will help to enable the long-running services that takes advantages of Mesos.

Q9. What is Marathon in Apache Mesos?

Marathon is a type of private pass that is built on Mesos. It will automatically handle all the hardware and the software parts and also assure that the app is on.

Q10. What is framework?

The framework provides an application with the API that is used to monitor the state of the tasks that the application is responsible for. Frameworks have the ability to decide that which resources they would accept and which is the appropriable computation to run on them.

Q11. What are the components of the frameworks?

The following are the main components of the framework:

1. Scheduler
2. Executor

Q12. What is scheduler in framework?

The scheduler registers along the masters and receives all the resource offerings from the masters. The schedulers' main task is to decide what to do with resources offered by the Mesos master within the framework.

Q13. What is executor in Framework?

The executor is launched on the slave nodes and runs all the framework's tasks.

Q14. What is Mesosphere?

A **mesosphere** is a type of software solution that expand upon the capabilities of the Apache Mesos. As a result,

the Apache Mesos along with the other additional components provide new and different ways to manage the server infrastructure.

Q15. What are the differences between Apache Mesos and Apache Spark?

The following are the main differences between Apache Mesos and Apache Spark:

- Apache Spark supports the authentication along with the shared secrets with the entire cluster manages. The Apache Mesos provides the authentication for any of the entity interacting of the cluster.
- Apache Spark has the Web UI to monitor the application whereas Apache Mesos provides all the numerous means for the master and slave nodes accessible along with the URL.

Q16. What are the modern workloads and framework that can run on Apache Mesos?

The following are the modern workloads and framework that can run on the Apache Mesos:

- Hadoop
- Memcached
- Ruby on Rails
- Storm
- JBoss data
- Grid
- MPI
- Spark
- Node

Q17. What are the long running services of Apache Mesos?

The following are the long running services of the Apache Mesos:

- Aurora runs on top of Mesos
- Marathon which is a private pass that is built on Mesos
- Singularity is a type of scheduler that is used for running the Mesos tasks.
- SSP is a type of single web application that is used to provide a white label Megaupload. It is used for storing and sharing of files.

Q18. What are the data processing in Apache Mesos?

The following are the data processing in Apache Mesos:

- Cray Chappel

- Depark
- Exelixa
- Hadoop
- Hama

Q19. Explain Apache Spark?

Apache Spark is a type of lightning fast cluster computing technology that is designed for fast computation. The Apache Spark is mainly based on the Hadoop MapReduce.

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