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Vendor:Oracle

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Exam Name:Oracle Cloud Infrastructure 2020 HPC
and Big Data Solutions Associate

Version:Demo

QUESTION 1

On Oracle Cloud Infrastructure (OCI), a customer wants to build a 3TB filesystem for high IOPS workloads (like relational databases, small files, etc).

Which action provides the highest IOPS using OCI block volumes for storage?

- A. Attach one Block volume of 3TB volume size and use filesystem Block size of 4K.
- B. Attach one Block volume of 3TB volume size and use filesystem Block size of 2M or higher.
- C. Attach three Block volumes of 1TB each and use filesystem Block size of 2M or higher.
- D. Attach three Block volumes of 1TB each and use filesystem Block size of 4K.

Correct Answer: A

QUESTION 2

Which three are available on Oracle Cloud Infrastructure (OCI) as load balancing policies?

- A. Least Connections
- B. Round Robin
- C. Random
- D. Least CPU Utilization
- E. IP Hash

Correct Answer: ABE

QUESTION 3

Which is an accurate analogy for Amdahl's law?

- A. There is no such thing as a free lunch.
- B. An orchestra can only play well together if they have a great conductor.
- C. When chopping vegetable to prepare a 4 person-meal, 2 persons are going twice as fast as one, but 8 people may not be 8 times faster.
- D. In track and field, the 4x100m relay is only 17% faster than the world record for individual 400m.

Correct Answer: C

QUESTION 4

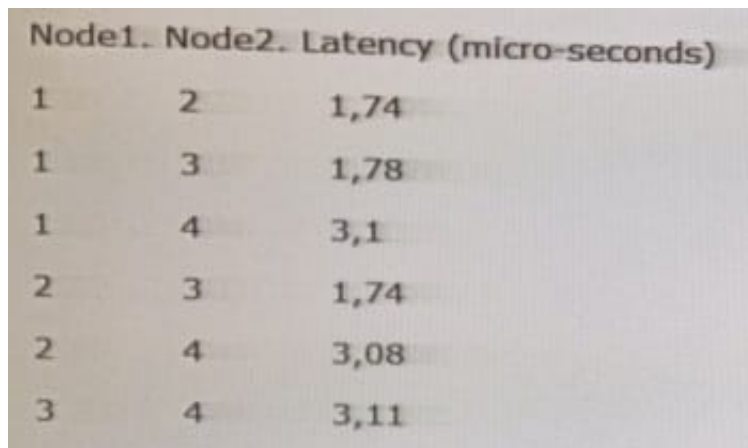
What does the Terasort phase of the Terasort benchmark do?

- A. It maps and reduces source data in a parallel manner, leveraging data locality to minimize network transfer.
- B. It randomly maps source data and reduces output to a smaller data set,
- C. It maps and reduces one terabyte of data into a smaller data set.
- D. It randomly maps source data and increases output to a bigger data set.

Correct Answer: B

QUESTION 5

On a RDMA cluster, a latency test was conducted, with these results: What should you do?



Node1.	Node2.	Latency (micro-seconds)
1	2	1,74
1	3	1,78
1	4	3,1
2	3	1,74
2	4	3,08
3	4	3,11

- A. Nothing, this behavior is normal.
- B. Latency is not critical, check the bandwidth.
- C. Rerun the test and see if it is consistent.
- D. Report the higher latency through a SR.

Correct Answer: A

QUESTION 6

On Oracle Cloud Infrastructure (OCI), a customer wants to build a 3TB filesystem for high throughput-oriented workloads.

Which action provides the highest IO throughput using OCI block volumes for storage?

- A. Attach one Block volume of 3TB volume size and use filesystem Block size of 256K or lower.
- B. Attach one Block volume of 3TB volume size and use filesystem Block size of 1M or higher.

- C. Attach three Block volumes of 1TB each and use filesystem Block size of 256K or lower.
- D. Attach three Block volumes of 1TB each and use filesystem Block size of 1M or higher.

Correct Answer: A

QUESTION 7

Which three Hadoop distributions are supported on Oracle Cloud Infrastructure (OCI)?

- A. Pivotal EMC
- B. Apache Hadoop
- C. Hortonworks
- D. MapR
- E. Cloudera

Correct Answer: BCE

QUESTION 8

Which is NOT an advantage associated with moving a Big Data workload to Oracle Cloud Infrastructure (OCI)?

- A. managed service offerings to support common Big Data workloads
- B. best price / performance for Big Data workloads In the Cloud
- C. availability of Oracle Airflow
- D. Object Storage as Data Lake
- E. dynamically scale capacity against workload

Correct Answer: A

QUESTION 9

You have an HPC cluster running tightly coupled MPI jobs without VPN or Fast Connect. The compute nodes are on subnet2(172.16.1.0/24), and there is a BM.Dense.I02.8 on subnet1 (172-16.0.0/24) that will serve as a bastion and file server.

What security lists should you choose to be able to run the workloads while limiting access as possible?

- A. Subnet1: 0.0.0.0 for TCP port 22, subnet 1 and 2: 172.16.0.0/23 for all protocols
- B. Subnet1: 0.0.0.0 for all protocols, subnet2: 172.16.0-0/16 for all protocols
- C. Subnet1: 172.16.1.0/24 for port 22, subnet2: 172.16.1.0/24 for all protocols

D. Subnet1: 0.0.0.0 for TCP port 27, subnet 7: 172.16.0.0/16 for TCP port 22

Correct Answer: B

QUESTION 10

You are building a file system that needs to handle large files with a lot of nodes reading at the same time. What minimum size of block volume maximizes throughput for large files?

- A. 800GB
- B. 1TB
- C. 32TB
- D. 500GB

Correct Answer: A

QUESTION 11

Which performance benchmark tool CANNOT be used to measure IO throughput for Linux based filesystems?

- A. IOR
- B. IO500
- C. Vdbench
- D. FIO
- E. iPerf

Correct Answer: A

QUESTION 12

What minimum size of block volume with Balanced performance tier maximizes throughput for large files?

- A. 10TB
- B. 1TB
- C. 32TB
- D. 100GB

Correct Answer: C