EMC

Exam E20-357

Isilon Solutions Specialist Exam for Implementation Engineers

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Question No : 1

What is the command to renumber the nodes of the cluster?

A. lnnset
B. ipset
C. deliprange / iprange
D. interface

Answer: A

Question No : 2

What is the recommended InfiniBand cabling for a dual switch configuration?

A. Connect the int-a port to the first switch and the int-b port to the second switch.
B. Connect node 1 int-a into InfiniBand switch port 1, and node 2 int-a into Infiniband switch port 2.
C. Connect the ext-1 port to the first switch and the int-b port to the second switch.
D. Connect the ext-1 port to the first switch and the ext-1 port to the second switch.

Answer: A

Question No : 3

You have just added a node to a cluster. What is the minimum time recommended to wait before adding thenext node?

A. 5 minutes
B. 3 minutes
C. 10 minutes
D. 20 minutes

Answer: A

Question No : 4

You have just completed the installation of a cluster. What is a recommended step to check networkconnectivity?

A. Ping each individual node.
B. Verify all nodes display in the web administration interface.
C. Connect to an SMB share and check for file access.
D. Connect to an NFS export and check for file access.

Answer: A

Question No : 5

What are the default settings for SupportIQ and remote access?

A. SupportIQ is enabled; Remote access is disabled
B. SupportIQ is disabled; Remote access is disabled
C. SupportIQ is enabled; Remote access is enabled
D. SupportIQ is disabled; Remote access is enabled

Answer: A

Question No : 6

A potential customer is considering replacing a four year old, Linux-based NFS server with 40TB of usablecapacity. The existing system supports home directories, an internal website, and a content repository for thecustomer's content management system. The customer is concerned about performance of any new solutionbecause they expect to double workload in the content management system.

A. syslog and vmstat
B. Perfmon and sysstat
C. isi statistics and Wireshark
D. iostat and nfsstat

Answer: D

Question No : 7

Your customer is moving from a Restaurant/Bar business model to a Restaurant/Casino business model. Youare helping architect the upgrade of a current 4-node X200 48 TB Isilon cluster, with 65% utilized for theirvideo surveillance operations. They wish to achieve the following:

Upgrade from 1280 x 720 resolution, with a 15 days retention policy, to 2048 x 1536 resolution with a 30 daysretention policy.

What is the minimum number of nodes of the same type will you need to add in order to meet the requiredchanges and not exceed 70% raw capacity?

A. 6 nodes
B. 10 nodes
C. 14 nodes
D. 18 nodes

Answer: B

Question No : 8

Your customer is looking for a storage solution that will be able to store seven million three MB files which arewritten and seldom accessed. Read and write operations are both completed by a web based application,which requires 1.3 Gbps throughput. The customer's network has not been upgraded in many years, so thenetwork interfaces are 1Gbps. Which cluster configuration would best meet the customer's requirements?

A. 3 NL400 nodes
B. 3 X400 nodes
C. 4 X200 nodes
D. 5 S200 nodes

Answer: C

Question No : 9

Your customer has a new business unit. They are gathering web log files to be analyzed. They

Areusing Hadoop to do the analysis of the logs. The IT department is centrally storing the

log files on a fivenode Isilon cluster. They have enabled the Hadoop cluster to access the files directly. The nodes are X400'swith two SSD drives in each node and 96GB of RAM.

How many DataNodes does the Isilon Cluster have?

A. 1
B. 5
C. 10
D. 15

Answer: B

Question No : 10

You have scheduled a meeting with a prospective customer in the Life Sciences vertical market.

Which Isilon features should be presented to them?

A. SyncIQ, Antivirus, 10 GigE support and HDFS
B. SmartPools, HDFS, 10 GigE support and SmartQuotas
C. SmartLock, HDFS, SmartPools and SmartQuotas
D. SyncIQ, SmartLock, HDFS and SmartConnect

Answer: B

Question No : 11

An existing customer has two NAS systems providing NFS storage in their main data center - one is an Isiloncluster and the second is an array from another vendor. Both systems are four years old, and the customerwould like to consolidate the storage into a single solution.

According to the customer, both systems supportidentical workloads with similar performance and utilization, and they want the new solution to support 50%performance growth. Which method can model the workload requirements, and what multiplier will capture therequirements for the new solution?

A. Use isi statistics drives, and multiply by 1.5
B. Use isi statistics system, and multiply by 3
C. Use isi statistics protocol, and multiply by 3
D. Use isi statistics query, and multiply by 2

Answer: B

Question No : 12

A customer wants to add Unix users to their cluster, and requires that NFS access be fault-tolerant. Whatwould you recommend?

A. Use NFS v3 and dynamic IP addressing with SmartConnect Basic
B. Use NFS v4 and dynamic IP addressing with SmartConnect Basic
C. Use NFS v3 and dynamic IP addressing with SmartConnect Advanced
D. Use NFS v4 and dynamic IP addressing with SmartConnect Advanced

Answer: C

Question No : 13

Your customer has an Isilon 4-node X400 cluster used for home directory use, and has since updated toOneFS 7.0. The HR and Legal departments have been very strict about using only dedicated file servers thatare part of a single, isolated, untrusted Active Directory domain. Their filer has been out of maintenance, andfears are being raised that, due to the age, it may fail at some point.

What could the IT department do, to allow the HR and Legal groups to provide file share services, with minimalimpact to their other application permissions?

A. Utilize SmartPools to create two pools to separate the domains
B. Recommend a 2nd cluster for the HR/Legal department
C. Use Access Zones for each domain
D. Consolidate onto a single cluster and merge the domains

Answer: C

Question No : 14

A Media and Entertainment company is considering changing from 2K resolution to 4K resolution.

They will continue to use the DNxHD 220 codec.

Assuming everything else stays the same, how will this change affect storage?

A. Storage will be half as large
B. Storage will be four times as large
C. Storage will be twice as large
D. Storage requirements will not change

Answer: B

Question No : 15

A customer is looking for a NAS solution to support their read-intensive application. This solution must meetthe following requirements:

· 1000 users

· Aggregate bandwidth of 5 GB/s

· 500 TB of user data

· Typical latency of 5 ms.

The files are distributed evenly across 10 directories. Which cluster configuration would best meet theserequirements?

A. Seven X400 (108 TB) nodes with no SSD
B. Eight NL400 (96 TB) nodes with 1.6 TB SSD
C. Eight X400 (96 TB) nodes with 1.6 TB SSD
D. Twenty-five X200 (30 TB) nodes with 800 GB SSD

Answer: C

Question No : 16

A NetApp customer is considering Isilon. They use their filers for UNIX home directories,

and would like to seea suggested configuration that would meet their needs.

What would you do to help size this cluster?

A. Use tcpdump and upload the output file to MiTrends to generate a protocol analysis
B. Ask for an autosupport file and upload it to MiTrends to generate a workflow profile
C. Ask them to install InsightIQ and collect data from the filer, then import to SQL for analysis
D. Ask for the output from nfsstat and upload it to MiTrends to generate a workflow profile

Answer: B

Question No : 17

A customer plans to replace an existing array that is supported by the MiTrend Workload Profile Assessment(WPA) service. You receive performance data from the customer and run a WPA report that shows the arrayhas 50TB of usable capacity. In discussions with the customer, you learn the content is comprised of fourmillion 6MB files and 400 million 64KB files. The customer explains they have a small budget and very limitedrack space available in their datacenter. Performance is not a concern because the files are rarely accessed.

Which configuration provides the needed usable capacity using N+2:1 protection, and requires the leastamount of rack space?

A. 3 x NL400 nodes with 2TB Drives
B. 3 x X400 nodes with 1TB Drives
C. 5 x X200 nodes with 1TB Drives
D. 6 x X200 nodes with 1TB Drives

Answer: D

Question No : 18

Your customer has an existing Isilon cluster with seven X200 nodes. The cluster is used to store homedirectories and departmental shared folders. They are planning to deploy a new application that generatessmall block, synchronous writes.

Which OneFS 7 capability can help reduce latency for the new workload?

A. Prefetcher
B. Endurant Cache
C. Solid State Drives
D. L2 Cache

Answer: B

Question No : 19

Your customer is a major metropolitan newspaper. Your previous discussion centered on their storagerequirements, and you asked them some of the Top Ten questions. They responded:"Well, it's not the prettiestor most high-tech solution...we use Secure FTP (SFTP) to upload the stories and images and put them in aworkflow that formats them for printing in the newspaper." "What really worries us is the fact that our StorageArray from your competitor is going out of maintenance in 120 days, and they are dropping support for SecureFTP. This isn't even considered in our D/R Plan. Do you have a better solution with Isilon?" Which Top Tenquestions led to this information?

A. What does your infrastructure look like?
What applications access this storage?
What protocols and version number?
B. How much capacity are you looking for?
What applications access this storage?
What risks are there in your current infrastructure?
C. What filesystems, SMB, NFS, or other are you using?
What does your infrastructure look like?
How do you manage your File Systems?
D. What is your network infrastructure like?
How many Storage Fabrics do you have?
What is your Disaster Plan for the Newspaper?

Answer: A

Question No : 20

You are designing a new Isilon cluster that requires backup to tape for all files in the Legal and Accountingshared folders. The customer has sized their IP network to support the application workload, but no additionalbandwidth is available.

What should be recommended for the backup solution?

A. Use Backup Accelerator nodes for 3-way NDMP
B. Use Backup Accelerator nodes for 2-way NDMP
C. Use SmartConnect Advanced and 10Gb/s network interfaces with LACP
D. Use an Avamar NDMP accelerator and dedicated 10Gb/s network interfaces

Answer: B

Question No : 21

You have had several meetings with an existing EMC VMAX customer. They have agreed that they would liketo review an initial Isilon Solution for unstructured data used by the ProductDevelopment Team. All productionis managed through a Global Enterprise Resource Planning system based in Germany. They require 600TiB ofusable capacity. The File System must be accessible from Windows and Linux High-End Workstations. Thefiles are generally not accessed after 120 days, and they would like automated tiering.

Which questions about architectural integration will impact the solution design?

How many clients will access the File System?

A. · Will their VDI clients access the Isilon Cluster?
· What is the DR plan for the ERP System?
· What Enterprise Resource Planning platform are they using in manufacturing?
B. · What is their Recovery Point Objective?
· What is their Archival Strategy?
· What non-sizing-specific factors in the customer's environment could impede integration of the Isilonsolution?
C. · What applications are they using?
· What are your priorities among performance, scalability, or availability? · How many data centers do theyhave?
D. · Will their Network Infrastructure support implementing Isilon? · What Enterprise Resource Planningplatform are they using in manufacturing?

Answer: C

Question No : 22

A potential customer requires 800TB of usable capacity to store medical images for their network of healthclinics. The IT department has limited staff and currently manages four storage arrays from other vendors.