**51.** A company has several business systems that require access to data stored in a file share. The business systems will access the file share using the Server Message Block (SMB) protocol. The file share solution should be accessible from both of the company’s legacy on-premises environment and with AWS.

Which services meet the business requirements? (select two)

1. Amazon EBS
2. Amazon EFS
3. Amazon FSx for Windows
4. Amazon S3
5. AWS Storage Gateway file gateway

Ans : 51-- C &E-- fsx for Windows & file gateway

**50.** A company’s web application is using multiple Linux Amazon EC2 instances and storing data on Amazon EBS volumes. The company is looking for a solution to increase the resiliency of the application in case of a failure and to provide storage that complies with atomicity, consistency, isolation and durability (ACID).

What should be a Solutions Architect do to meet these requirements?

1. Launch the application on EC2 instances in each Availability Zone. Attach EBS volumes to each EC2 instance.
2. Create an Application Load Balancer with Auto Scaling groups across multiple Availability Zones. Mount an instance store on each EC2 instance.
3. Create an Application Load Balancer with Auto Scaling Groups across multiple Availability Zones. Store data on Amazon EFS and mount a target on each instance.
4. Create an Application Load Balancer with Auto Scaling Groups across multiple Availability Zones. Store data using Amazon S3 one Zone – Infrequent Access (S3 One Zone – IA).

Ans : 50--C – EFS

**49.** An online photo application lets user upload photos and perform image editing operations. The application offers two classes of service: free and paid. Photos submitted by paid users are processed before those submitted by free users. Photos are uploaded to Amazon S3 and the job information is sent to Amazon SQS.

Which configuration should a Solution Architect recommend?

1. Use one SQS FIFO Queue. Assign a high priority to the paid photos so they are processed first.
2. Use two SQS FIFO Queue: one for paid and one for free. Set the free queue to use the short polling and the paid queue to use the long polling.
3. Use two SQS standard queues: one for paid and one for free. Configure Amazon EC2 instances to prioritize polling for the paid queue over the free queue.
4. Use one SQS standard queue. Set the visibility time out of the paid photos to zero. Configure Amazon EC2 instances to prioritize visibility setting to paid photos are processed first.

49--B-- two sqs

**48.** A company has an application with a REST- Based interface that allows the data to be received in near – real time from a third party vendor. Once received, the application process and stores the data for further analysis. The application is running on Amazon EC2 instances.

The third party vendor has many 503 Service Unavailable Errors when sending data to the application.

When the data volume spikes, the compute capacity reaches its maximum limit and the application is unable to process all requests.

Which design should be a Solutions Architect recommend to provide a more scalable solution?

1. Use Amazon Kinesis streams to ingest the data. Process the data using AWS Lambda functions.
2. Use Amazon API gateway on top of the existing application. Create a usage plan with a quota limit for the third-party vendor.
3. Use Amazon Simple Notification Service (SNS) to ingest the data. Put the EC2 instances in an Auto Scaling Group behind an Application Load Balancer.
4. Repackage the application as a container. Deploy the application using Amazon Elastic Container Service (Amazon ECS) using the EC2 Launch Type with an Auto Scaling Group.

48--A -- kinesis streams

**47.** A Solutions Architect is designing a two tier web application. The application consists of a public-facing web tier hosted on Amazon EC2 in public subnets. The data base tier consists of MicroSoft SQL Server running on Amazon EC2 in a private subnet. Security is a high priority for the company.

How should security groups be configured in this situation? (Select two)

1. Configure the security groups for the web tier to allow in bound traffic on port 443 from 0.0.0.0/0.
2. Configure the security group for the web tier to allow out bound traffic on port 443 from 0.0.0.0/0.
3. Configure the security group for the data base tier to allow in bound traffic on port 1433 from the security group for the web tier.
4. Configure the security group for the data base tier to allow out bound traffic on ports 443 and 1433 to the security group for the web tier.
5. Configure the security group for the data base tier to allow in bound traffic on ports 443 and 1433 from the security group for the web tier.

47--A&E

**46.** A data science team requires storage for nightly log processing. The size and number of logs is unknown and will persist for 24 hours only.

What is the most cost-effective solution?

1. Amazon S3 Glacier
2. Amazon S3 standard
3. Amazon S3 Intelligent-Tiering
4. Amazon S3 One Zone – Infrequent Access (S3 One Zone – IA)

46-- D—onezone

**45.** A company recently expanded globally and wants to make its application accessible to users in those geographic locations. The application is deployed on a Amazon EC2 instances behind an Application Load Balancer in an Auto Scaling Group. The company needs the ability to shift traffic from resources from one region to another.

What should a Solutions Architect recommend?

1. Configure an Amazon Route 53 Latency Routing Policy
2. Configure an Amazon Route 53 Geolocation Routing Policy
3. Configure an Amazon Route 53 Geoproximity Routing Policy.
4. Configure an Amazon Route 53 multi value answer Routing Policy

45--B-- geolocation based routing

**44. Not clear**

**43.** A company has a 143 TB MYSQL Database that it wants to migrate to AWS. The plan is to use Amazon Aurora MYSQL as the platform going forward. The company has a 100MBPS AWS Direct Connection to Amazon VPC.

Which solution meets the company’s needs and takes the least amount of time?

1. Use a gateway end point for Amazon S3. Migrate the data to Amazon S3. Import the data into Aurora
2. Upgrade the Direct Connect link to 500 MBPS. Copy the data to Amazon S3. Import the data into Aurora
3. Order an AWS Snowmobile and copy the database backup to it. Have AWS import the database into Amazon S3. Import the backup into Aurora
4. Order four 50-TB AWS Snowball devices and copy the database backup onto them. Have AWS import the data into Amazon S3. Import the data into Aurora

43--D—snowball

**42.** ………….. once every day. A solution architect needs to design a solution that leverages big data processing frameworks the data …… business intelligence tools.

What should the solution architect recommend to build the most high performing solution?

1. Use AWS Glue to process data and Amazon S3 to store data
2. Use Amazon EMR to process data and Amazon RedShift to store Data
3. Use Amazon EC2 to process data and Amazon Elastic Block Store (Amazon EBS) to store data
4. Use Amazon Kinesis data analytics to process data and Amazon Elastic File (Amazon EFS) system to store data

**41.** A company’s production application runs online transaction processing (OLTP) transactions on a Amazon RDS MYSQL DB instance. The company is launching a new reporting tool that will access the same data. The reporting tool must be highly available and not impact the performance of the production application.

How can this be achieved?

1. Create hourly snapshots of the production RDS DB instance
2. Create a multi-AZ RDS Read Replica of the production RDS DB Instance.
3. Create multiple RDS Read Replicas of the production RDS DB instance. Place the Read Replicas in an Auto Scaling Group
4. Create a single-AZ RDS Read Replica of the production RDS DB instance. Create a second single AZ RDS Read Replica from the Replica.

41--B -- multiaz read replica

**40.** A Company provides an API to its users that automates inquiries for tax computation based on item prices. The company experiences a larger number of enquiries during the holiday season only that causes slower response times. A Solutions Architect needs to design a solution that is scalable and elastic.

What should the solutions architect do to accomplish this?

1. Provide an API hosted on an Amazon EC2 instance. The EC2 instance performs the required computations when the API request is made.
2. Design a REST API using Amazon API GateWay that accepts the item names. API GateWay passes item names to AWS Lambda for tax computations.
3. Create an Application Load Balancer that has two Amazon EC2 instances behind it. The EC2 instances will compute the tax on the received Item names.
4. Design a REST API using Amazon API GateWay that connects with an API hosted on Amazon EC2 Instance. API Gateway accepts and passes the item names to the EC2 Instance for tax.

40-- B-- lambda

65. A company hosts its website on AWS. To address the highly variable demand,the company has implemented Amazon EC2 Auto scaling, Management is concerned that the company is over-provisioning its infrastructure ,especially at the front end of the three-tier application. A solutions architect needs to ensure costs are optimized without impacting performance .

What should the solutions architect do to accomplish this?

1. Use auto scaling with reserved instances .
2. Use auto scaling with a scheduled scaling policy
3. Use auto scaling with the suspend-resume feature
4. Use auto scaling with a target tracking scaling policy.

65-- D target tracking scaling

64.A company must  migrate 20TB of data from a data center to the AWS cloud within 30days. The Company’s network bandwidth is limited to 15Mbpsand cannot exceed 70% utilization.

What should a solutions architect do to meet those requirements ?

1. Use AWS Snowball
2. Use AWS DataSync
3. Use a secure VPN connection
4. Use Amazon S3 Transfer Acceleration.

64-- A -- AWS snowball

63.A Company has a 10Gbps AWS Direct Connect connection from its on-premises servers to AWS. The workloads using the connection are critical. The company requires a disaster recovery strategy with maximum resiliency that maintains the current connection bandwidth at a minimum.

What should a solutions architect recommend?

1. Set up a new Direct Connect connection in another AWS region .
2. Set up a new AWS managed VPN connection in another AWS region.
3. Set up two new Direct Connect connections:one in the current AWS region and one in another region.
4. Set up two new AWS managed VPN connections:one in the current AWS region and one in another Region.

62.Management has decided to deploy all AWS VPCs with IPv6 enabled. After some time , a solutions architect tries to launch a new instance and receive an error stating that there is not enough IP address space available in the subnet.

What should the solutions architect do to fix this ?

62-- C ipv6 larger range

61.A Company wants to host a scalable web application on AWS. The application will be accessed by users from different geographic regions of the world.Application users willbe able to download and upload unique data upto gigabytes in size. The development team wants to minimize upload and download latency and maximize performance .

What should a solutions architect do to accomplish this?

61-- A -- S3 transfer acceleration

60.A company has data stored in an on-premises data center that is used  by several on-premises applications. The company wants to maintain its existing application environment and be able to use AWS services for data analytics and future visualizations .

Which storage service should a solutions architect recommend ?

61-- A -- S3 transfer acceleration

59.A company is designing a message-driven order processing application on AWS. The application consists of many services and needs to communicate the results of the processing to multiple consuming services.Each of the consuming services may take upto 5days to receive the messages .

Which process will meet these requirements ?

59 -- D -- subscriber to sns topic

58.A company has created a VPC with multiple private subnets in multiple Availability Zones(AZs) and one public subnet in one of the AZs. The public subnet is used to launch a NAT gateway . These are the instances in the private subnets that use a NAT gateway to connect to the internet. In case of an AZ failure ,the company wants to ensure that the instances are not all experiencing internet connectivity issues and that there is a backup plan ready .

Which solution should a solutions architect recommend that is MOST highly available?

57.A company hosts its web application on AWS using seven Amazon EC2 instances. The company requires that the IP addresses of all healthy EC2 instances be returned in response to DNS queries .

Which policy should be used to meet these  requirements ?

57-- C -- multi value routing policy

56.A Company is building a website that relies on reading and writing to an Amazon DynamoDB database. The traffic associated with the website predictably peaks during business hours on weekdays and declines overnight  and during weekends. A solutions architect needs to design a cost-effective solution that can handle the load .

What should the solutions architect do to meet these requirements ?

56-- D on demand

55.An operations team has a standard that states IAM policies should not be applied directly to users .Some new team members have not been following this standard . The operations manager needs a way to easily identify the users with attached policies .

What should a solutions architect do to accomplish this ?

55-- B -- AWS config

54.A solutions architect is using Amazon S3 to design the storage architecture of a new digital media application.The media files must be resilient to the loss of an availability zone.Some files are accessed frequently while other files are rarely accessed in an unpredictable pattern.The solutions architect must minimize the costs of storing and retrieving the media files.

Which storage option meets these requirements?

53.A company runs a web service on Amazon EC2 instances behind an Application Load Balancer .The instances run in an Amazon EC2 Auto scaling group across two availability zones. The company needs a minimum of four instances at all times to meet the required service level agreement (SLA) while keeping costs low.

If an Availability Zone fails,how can the company remain compliant with the SLA?

53-- C -- six servers in three availability zones

52.A Solutions architect is designing a solution to access a catalog of images and provide users with the ability to submit requests to customize images. Image customization parameters will be in any request sent to an AWS API Gateway API . The customized image will be generated on demand and users will receive a link they can click to view or download their customized image. The solution must be highly available for viewing and customizing images.

What is the most cost-effective solution to meet these requirements?