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QUESTION NO: 1

A company has deployed a highly available SAP NetWeaver system on SAP HANA into a VPC. The system is distributed across multiple Availability Zones within a single AWS Region. SAP NetWeaver is running on SUSE Linux Enterprise Server for SAP. SUSE Linux Enterprise High Availability Extension is configured to protect SAP ASCS and ERS instances and uses the overlay IP address concept. The SAP shared disks `sapmnt` and `.usr.sap.trans` are hosted on an Amazon Elastic File System (Amazon EFS) file system.

The company needs a solution that uses already-existing private connectivity to the VPC. The SAP NetWeaver system must be accessible through the SAP GUI client tool.

Which solutions will meet these requirements? (Select TWO)

- A. Deploy an Application Load Balancer. Configure the overlay IP address as a target.
- B. Deploy a Network Load Balancer. Configure the overlay IP address as a target.
- C. Use an Amazon Route 53 private zone. Create an A record that has the overlay IP address as a target.
- D. Use AWS Transit Gateway. Configure the overlay IP address as a static route in the transit gateway route table. Specify the VPC as a target.
- E. Use a NAT gateway. Configure the overlay IP address as a target.

ANSWER: A D

Explanation:

The Application Load Balancer (ALB) would be a good solution for the company's requirements, it provides a layer-7 load balancing and it's highly available, it allows the company to use the overlay IP address as a target and makes the SAP NetWeaver system accessible through the SAP GUI client tool.

AWS Transit Gateway can also be used to meet the company's requirements, it provides a centralized and scalable solution to route traffic between VPCs. The company can configure the overlay IP address as a static route in the transit gateway route table and specify the VPC as a target. This would allow the company to use the existing private connectivity to the VPC and make the SAP NetWeaver system accessible through the SAP GUI client tool.

QUESTION NO: 2

An SAP solutions architect is using AWS Systems Manager Distributor to install the AWS Data Provider for SAP on production SAP application servers and SAP HANA database servers. The SAP application servers and the SAP HANA database servers are running on Red Hat Enterprise Linux.

The SAP solutions architect chooses instances manually in Systems Manager Distributor and schedules installation. The installation fails with an access and authorization error related to Amazon CloudWatch and Amazon EC2 instances. There is no error related to AWS connectivity.

What should the SAP solutions architect do to resolve the error?

- A. Install the CloudWatch agent on the servers before installing the AWS Data Provider for SAP.

- B.** Download the AWS Data Provider for SAP installation package from AWS Marketplace Use an operating system super user to install the agent manually or through a script
- C.** Create an IAM role Attach the appropriate policy to the role Attach the role to the appropriate EC2 instances
- D.** Wait until Systems Manager Agent is fully installed and ready to use on the EC2 instances Use Systems Manager Patch Manager to perform the installation

ANSWER: C

Explanation:

It's likely that the instances currently lack the necessary permissions to interact with CloudWatch and EC2. By creating an IAM role with the appropriate permissions and attaching it to the instances, the SAP solutions architect can grant the necessary permissions to the instances to complete the installation.

QUESTION NO: 3

A global retail company is running its SAP landscape on AWS Recently the company made changes to its SAP Web Dispatcher architecture The company added an additional SAP Web Dispatcher for high availability with an Application Load Balancer (ALB) to balance the load between the two SAP Web Dispatchers

When users try to access SAP through the ALB the system is reachable However the SAP backend system is showing an error message An investigation reveals that the issue is related to SAP session handling and distribution of requests . The company confirmed that the system was working as expected with one SAP Web Dispatcher. The company replicated the configuration of that SAP Web Dispatcher to the new SAP Web Dispatcher

How can the company resolve the error?

- A.** Maintain persistence by using session cookies Enable session stickiness (session affinity) on the SAP Web Dispatchers by setting the wdisp/HTTP/esid_support parameter to True
- B.** Maintain persistence by using session cookies Enable session stickiness (session affinity) on the ALB
- C.** Turn on host-based routing on the ALB to route traffic between the SAP Web Dispatchers
- D.** Turn on URL-based routing on the ALB to route traffic to the application based on URL

ANSWER: A

Explanation:

The error message being displayed is related to SAP session handling and distribution of requests. By using session cookies, the company can maintain persistence of the user's session across requests. By enabling session stickiness on the SAP Web Dispatchers by setting the wdisp/HTTP/esid_support parameter to True, the company can ensure that requests from the same user are always routed to the same SAP Web Dispatcher. This would resolve the error message that the company is seeing and ensure that the backend system is working as expected with the new SAP Web Dispatcher configuration.

QUESTION NO: 4

A company wants to implement SAP HANA on AWS with the Multi-AZ deployment option by using AWS Launch Wizard for SAP. The solution will use SUSE Linux Enterprise High Availability Extension for the high availability deployment. An SAP solutions architect must ensure that all the prerequisites are met. The SAP solutions architect also must ensure that the user inputs to start the guided deployment of Launch Wizard are valid.

Which combination of steps should the SAP solutions architect take to meet these requirements? (Select TWO)

- A. Before starting the Launch Wizard deployment create the underlying Amazon Elastic Block Store (Amazon EBS) volume types to use for SAP HANA data and log volumes based on the performance requirements
- B. Use a value for the PaceMakerTag parameter that is not used by any other Amazon EC2 instances in the AWS Region where the system is being deployed
- C. Ensure that the virtual hostname for the SAP HANA database that is used for the SUSE Linux Enterprise High Availability Extension configuration is not used in any other deployed accounts
- D. Ensure that the Virtual Address parameter is outside the VPC CIDR and is not being used in the route table that is associated with the subnets where primary and secondary SAP HANA instances will be deployed
- E. Before starting the Launch Wizard deployment set up the SUSE Linux Enterprise High Availability Extension network configuration and security group

ANSWER: B E

Explanation:

The SAP solutions architect should take the following steps to meet the requirements:

Creating the underlying Amazon Elastic Block Store (Amazon EBS) volume types to use for SAP HANA data and log volumes based on the performance requirements is not a necessary step as it can be done during the deployment with the help of the AWS Launch Wizard. Ensuring that the virtual hostname for the SAP HANA database that is used for the SUSE Linux Enterprise High Availability Extension configuration is not used in any other deployed accounts is not a necessary step as the Launch Wizard will handle it. Ensuring that the Virtual Address parameter is outside the VPC CIDR and is not being used in the route table that is associated with the subnets where primary and secondary SAP HANA instances will be deployed is not a necessary step as the Launch Wizard will handle it.

QUESTION NO: 5

A company plans to migrate its SAP NetWeaver deployment to AWS. The deployment runs on a Microsoft SQL Server database. The company plans to change the source database from SQL Server to SAP HANA as part of this process.

Which migration tools or methods should an SAP solutions architect use to meet these requirements? (Select TWO.)

- A. SAP HANA classical migration
- B. SAP HANA system replication
- C. SAP Software Update Manager (SUM) Database Migration Option (DMO) with System Move
- D. SAP HANA backup and restore
- E. SAP homogeneous system copy

ANSWER: A C

QUESTION NO: 6

A company is running an SAP ERP Central Component (SAP ECC) system on an SAP HANA database that is 10 TB in size. The company is receiving notifications about long-running database backups every day. The company uses AWS Backup Agent for SAP HANA (AWS Backup agent) on an Amazon EC2 instance to back up the database. An SAP NetWeaver administrator needs to troubleshoot the problem and propose a solution.

Which solution will help resolve this problem?

- A.** Ensure that AWS Backup agent is configured to send the backups to an Amazon S3 bucket over the internet. Ensure that the EC2 instance is configured to access the internet through a NAT gateway.
- B.** Check the UploadChannelSize parameter for AWS Backup agent. Increase this value in the aws-backup-agent-config.yaml configuration file based on the EC2 instance type and storage configurations.
- C.** Check the MaximumConcurrentFilesForRestore parameter for AWS Backup agent. Increase the parameter from 5 to 10 by using the aws-backup-agent-config.yaml configuration file.
- D.** Ensure that the backups are compressed if necessary. Configure AWS Backup agent to compress the backups and send them to an Amazon S3 bucket.

ANSWER: B

Explanation:

The problem is long-running database backups every day, it is likely that the backups are taking too long to complete because the upload channel size is not sufficient for the size of the backups. By increasing the UploadChannelSize parameter, the SAP NetWeaver administrator can adjust the amount of data that is sent over the network at a time, which can help to speed up the backups and reduce the time they take to complete. This can be done by editing the aws-backup-agent-config.yaml configuration file and increasing the value of the UploadChannelSize parameter based on the EC2 instance type and storage configurations.

QUESTION NO: 7

An SAP solutions architect is designing an SAP HANA scale-out architecture for SAP Business Warehouse (SAP BW) on SAP HANA on AWS. The SAP solutions architect identifies the design as a three-node scale-out deployment of x1e.32xlarge Amazon EC2 instances.

The SAP solutions architect must ensure that the SAP HANA scale-out nodes can achieve the low-latency and high-throughput network performance that are necessary for node-to-node communication.

Which combination of steps should the SAP solutions architect take to meet these requirements? (Select TWO.)

- A.** Create a cluster placement group. Launch the instances into the cluster placement group.
- B.** Create a spread placement group. Launch the instances into the spread placement group.
- C.** Create a partition placement group. Launch the instances into the partition placement group.
- D.** Based on the operating system version, verify that enhanced networking is enabled on all the nodes.
- E.** Switch to a different instance family that provides network throughput that is greater than 25 Gbps.

ANSWER: A D

Explanation:

A cluster placement group is an Amazon EC2 feature that enables low-latency and high-throughput network performance for the instances that are launched into the group. This is achieved by placing the instances in the same availability zone and physically close to each other, which reduces network latency and increases network throughput.

Enhanced networking is a feature provided by AWS that enables higher network performance by using specialized network interfaces that support higher IOPS and throughput. To meet the requirement of low-latency and high-throughput network performance, it is necessary to check that enhanced networking is enabled on all the nodes, based on the operating system version.

QUESTION NO: 8

A company is planning to move all its SAP applications to Amazon EC2 instances in a VPC. Recently the company signed a multiyear contract with a payroll software-as-a-service (SaaS) provider. Integration with the payroll SaaS solution is available only through public web APIs.

Corporate security guidelines state that all outbound traffic must be validated against an allow list. The payroll SaaS provider provides only fully qualified domain name (FQDN) addresses and no IP addresses or IP address ranges. Currently, an on-premises firewall appliance filters FQDNs. The company needs to connect an SAP Process Orchestration (SAP PO) system to the payroll SaaS provider.

What must the company do on AWS to meet these requirements?

- A.** Add an outbound rule to the security group of the SAP PO system to allow the FQDN of the payroll SaaS provider and deny all other outbound traffic
- B.** Add an outbound rule to the network ACL of the subnet that contains the SAP PO system to allow the FQDN of the payroll SaaS provider and deny all other outbound traffic
- C.** Add an AWS WAF web ACL to the VPC. Add an outbound rule to allow the SAP PO system to connect to the FQDN of the payroll SaaS provider
- D.** Add an AWS Network Firewall firewall to the VPC. Add an outbound rule to allow the SAP PO system to connect to the FQDN of the payroll SaaS provider

ANSWER: D

QUESTION NO: 9

A company wants to migrate its SAP S/4HANA software from on-premises to AWS in a few weeks. An SAP solutions architect plans to use AWS Launch Wizard for SAP to automate the SAP deployment on AWS.

Which combination of steps must the SAP solutions architect take to use Launch Wizard to meet these requirements? (Select TWO.)

- A.** Download the SAP software files from the SAP Support Portal. Upload the SAP software files to Amazon S3. Provide the S3 bucket path as an input to Launch Wizard.
- B.** Provide the SAP S-user ID and password as inputs to Launch Wizard to download the software automatically.
- C.** Format the S3 path syntax according to the Launch Wizard deployment recommendation.

- D. Use an AWS CloudFormation template for the automated deployment of the SAP landscape
- E. Provision Amazon EC2 instances Tag the instances to install SAP S'4HANA on them

ANSWER: A D

QUESTION NO: 10

A company is running an SAP HANA database on AWS. The company wants to manage historical infrequently accessed warm data for a native SAP HANA use case. An SAP solutions architect needs to recommend a solution that can provide online data storage in extended store available for queries and updates. The solution must be an integrated component of the SAP HANA database and must allow the storage of up to five times more data in the warm tier than in the hot tier.

Which solution will meet these requirements?

- A. Use Amazon Data Lifecycle Manager (Amazon DLM) with SAP Data Hub to move data in and out of the SAP HANA database to Amazon S3
- B. Use an SAP HANA extension node
- C. Use SAP HANA dynamic tiering as an optional add-on to the SAP HANA database
- D. Use Amazon Data Lifecycle Manager (Amazon DLM) with SAP HANA spark controller so that SAP HANA can access the data through the Spark SQL SDA adapter

ANSWER: C

Explanation:

This is a feature of the SAP HANA database that allows for the management of historical, infrequently accessed data and provides an integrated solution for data storage in the warm tier. It allows for the storage of up to five times more data in the warm tier than in the hot tier, and it allows for online data storage that is available for queries and updates.