



SAA-C01^{Q&As}

AWS Certified Solutions Architect - Associate (SAA-C01)





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QUESTION 1

A Solutions Architect needs to allow developers to have SSH connectivity to web servers. The requirements are as follows:

Limit access to users origination from the corporate network.

Web servers cannot have SSH access directly from the Internet.

Web servers reside in a private subnet.

Which combination of steps must the Architect complete to meet these requirements? (Choose two.)

- A. Create a bastion host that authenticates users against the corporate directory.
- B. Create a bastion host with security group rules that only allow traffic from the corporate network.
- C. Attach an IAM role to the bastion host with relevant permissions.
- D. Configure the web servers\' security group to allow SSH traffic from a bastion host.
- E. Deny all SSH traffic from the corporate network in the inbound network ACL.

Correct Answer: AC

QUESTION 2

The _____ IAM policy element describes the specific action or actions that will be allowed or denied.

- A. Principal
- B. Action
- C. Vendor
- D. Not Principal

Correct Answer: B

The Action element describes the specific action or actions that will be allowed or denied. Statements must include either an Action or NotAction element. Each AWS service has its own set of actions that describe tasks that you can perform with that service. http://docs.aws.amazon.com/IAM/latest/UserGuide/reference_policies_elements.html

QUESTION 3

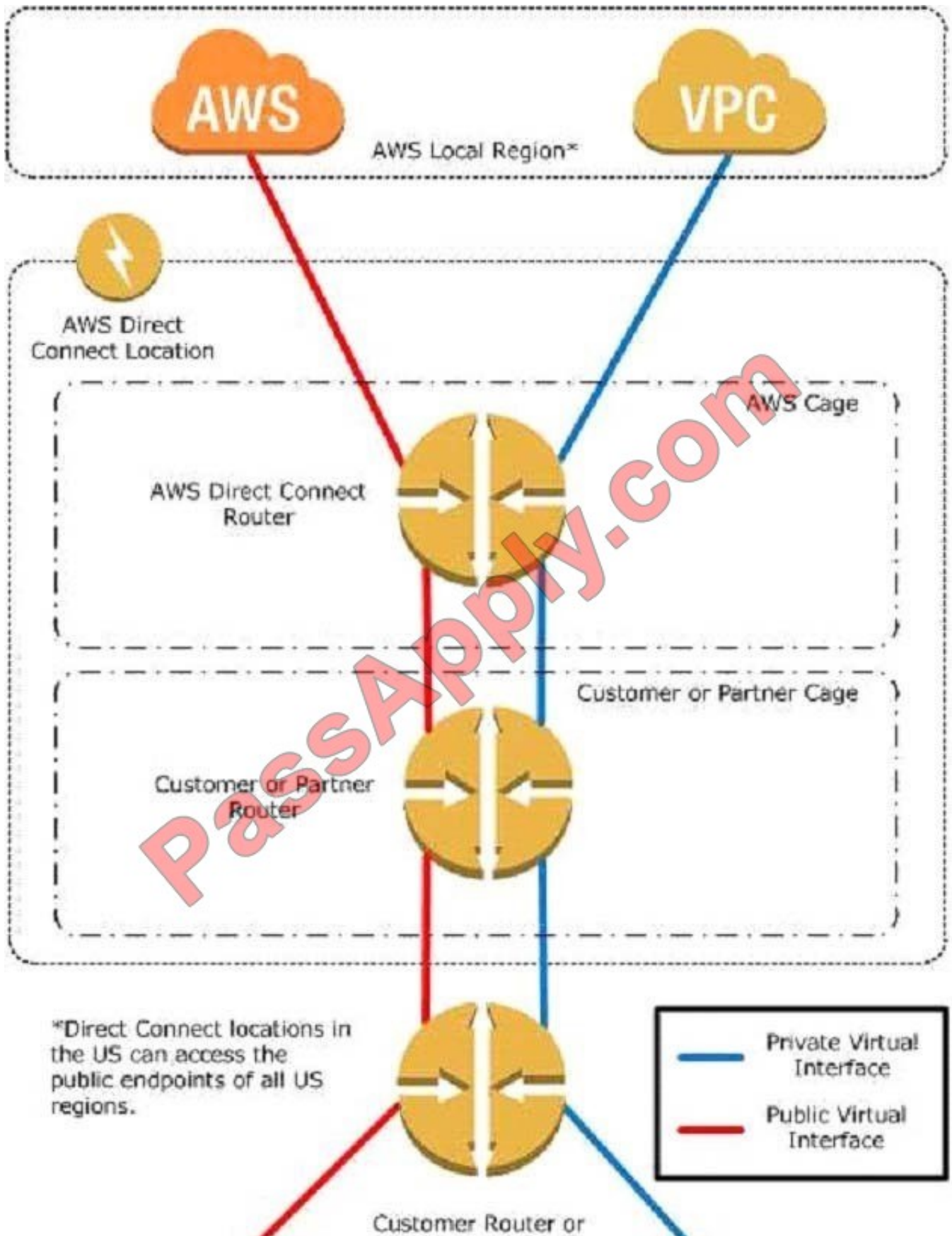
You are tasked with moving a legacy application from a virtual machine running Inside your datacenter to an Amazon VPC. Unfortunately this app requires access to a number of on-premises services and no one who configured the app still works for your company. Even worse there\'s no documentation for it. What will allow the application running inside the VPC to reach back and access its internal dependencies without being reconfigured? (Choose three.)



- A. An AWS Direct Connect link between the VPC and the network housing the internal services.
- B. An Internet Gateway to allow a VPN connection.
- C. An Elastic IP address on the VPC instance
- D. An IP address space that does not conflict with the one on-premises
- E. Entries in Amazon Route 53 that allow the Instance to resolve its dependencies\ IP addresses
- F. A VM Import of the current virtual machine

Correct Answer: ADF

AWS Direct Connect makes it easy to establish a dedicated network connection from your premises to AWS. Using AWS Direct Connect, you can establish private connectivity between AWS and your datacenter, office, or colocation environment, which in many cases can reduce your network costs, increase bandwidth throughput, and provide a more consistent network experience than Internet-based connections. AWS Direct Connect lets you establish a dedicated network connection between your network and one of the AWS Direct Connect locations. Using industry standard 802.1q VLANs, this dedicated connection can be partitioned into multiple virtual interfaces. This allows you to use the same connection to access public resources such as objects stored in Amazon S3 using public IP address space, and private resources such as Amazon EC2 instances running within an Amazon Virtual Private Cloud (VPC) using private IP space, while maintaining network separation between the public and private environments. Virtual interfaces can be reconfigured at any time to meet your changing needs. What is AWS Direct Connect? AWS Direct Connect links your internal network to an AWS Direct Connect location over a standard 1 gigabit or 10 gigabit Ethernet fiber-optic cable. One end of the cable is connected to your router, the other to an AWS Direct Connect router. With this connection in place, you can create virtual interfaces directly to the AWS cloud (for example, to Amazon Elastic Compute Cloud (Amazon EC2) and Amazon Simple Storage Service (Amazon S3)) and to Amazon Virtual Private Cloud (Amazon VPC), bypassing Internet service providers in your network path. An AWS Direct Connect location provides access to Amazon Web Services in the region it is associated with, as well as access to other US regions. For example, you can provision a single connection to any AWS Direct Connect location in the US and use it to access public AWS services in all US Regions and AWS GovCloud (US). The following diagram shows how AWS Direct Connect interfaces with your network.



Requirements



To use AWS Direct Connect, your network must meet one of the following conditions:

Your network is colocated with an existing AWS Direct Connect location. For more information on available AWS Direct Connect locations, go to <http://aws.amazon.com/directconnect/>. You are working with an AWS Direct Connect partner

who is a member of the AWS Partner Network (APN). For a list of AWS Direct Connect partners who can help you connect, go to <http://aws.amazon.com/directconnect>.

You are working with an independent service provider to connect to AWS Direct Connect.

In addition, your network must meet the following conditions:

Connections to AWS Direct Connect require single mode fiber, 1000BASE-LX (1310nm) for 1 gigabit Ethernet, or 10GBASE-LR (1310nm) for 10 gigabit Ethernet. Auto Negotiation for the port must be disabled. You must support 802.1Q

VLANs across these connections.

Your network must support Border Gateway Protocol (BGP) and BGP MD5 authentication. Optionally, you may configure Bidirectional Forwarding Detection (BFD).

To connect to Amazon Virtual Private Cloud (Amazon VPC), you must first do the following:

Provide a private Autonomous System Number (ASN). Amazon allocates a private IP address in the 169.x.x.x range to you.

Create a virtual private gateway and attach it to your VPC. For more information about creating a virtual private gateway, see [Adding a Hardware Virtual Private Gateway to Your VPC in the Amazon VPC User Guide](#).

To connect to public AWS products such as Amazon EC2 and Amazon S3, you need to provide the following:

A public ASN that you own (preferred) or a private ASN.

Public IP addresses (/31) (that is, one for each end of the BGP session) for each BGP session. If you do not have public IP addresses to assign to this connection, log on to AWS and then open a ticket with AWS Support.

The public routes that you will advertise over BGP.

QUESTION 4

A news organization plans to migrate their 20 TB video archive to AWS. The files are rarely accessed, but when they are, a request is made in advance and a 3 to 5-hour retrieval time frame is acceptable. However, when there is a breaking

news story, the editors require access to archived footage within minutes.

Which storage solution meets the needs of this organization while providing the LOWEST cost of storage?

- A. Store the archive in Amazon S3 Reduced Redundancy Storage.
- B. Store the archive in Amazon Glacier and use standard retrieval for all content.
- C. Store the archive in Amazon Glacier and pay the additional charge for expedited retrieval when needed.
- D. Store the archive in Amazon S3 with a lifecycle policy to move this to S3 Infrequent Access after 30 days.



Correct Answer: C

QUESTION 5

A Solutions Architect is designing a photo application on AWS. Every time a user uploads a photo to Amazon S3, the Architect must insert a new item to a DynamoDB table.

Which AWS-managed service is the BEST fit to insert the item?

- A. Lambda@Edge
- B. AWS Lambda
- C. Amazon API Gateway
- D. Amazon EC2 instances

Correct Answer: B

Reference: <https://aws.amazon.com/blogs/machine-learning/build-your-own-face-recognition-service-using-amazon-rekognition/>

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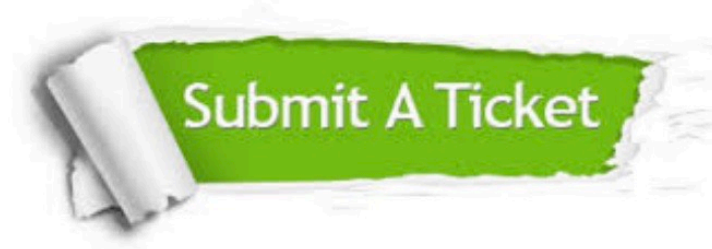
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