

# Q IPSpecialist - AWS Certified Advanced Networking Specialty (Technology Workbook)

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In AWS, which of the following maps to a separate geographic location?	AWS Region
Which Cloud Computing type is used to provide Basic Building Block for Cloud?	IaaS
Which Cloud Computing Type is used as a complete product as a web server?	SaaS
Which type of Deployment model includes a mixture of on-premises, public third-party cloud, and private cloud?	Hybrid
In AWS, you have _____ and _____ services to provide continuous monitoring of resources.	Encryption and Security
When you use AWS instead of a Traditional environment, then you get _____ benefit.	Deploy Quickly and Security Increase
Which phenomenon means "Lower prices mean more customers are taking advantage of the platform", which in turn results in further driving down costs?	Virtuous cycle
An application that needs no knowledge of previous interactions and stores no session is termed as _____	Stateless application
Implement Auto Scaling to horizontally scale up and down automatically depending on your need to reduce cost is known as _____	Elasticity
Which type of pricing option is ideal for workloads that have flexible start and end times?	Spot
How many layers does the OSI model contain?	Seven
Which layer do Transmission Control Protocol (TCP) and User Datagram Protocol (UDP) work at?	A) Transport Layer
OSI reference model is a seven-layer reference model that is originated from the _____	ISO Standards
Which of the following device translates hostname into IP address?	DNS Server
The entire hostname has the maximum of _____	255 Characters
How does the DNS server handle the request for another Domain?	By contacting DNS server
How many steps does the IPSec go through to transfer the data over VPN?	Five steps
In IPSec, the interesting traffic is generated at _____	The source VPN endpoint
Two routers that established connection in order to exchange BGP information are referred to as _____	BGP Peering
_____ is BGP supported matrix used to influence or provide preference directive for the traffic that is entering in the network	MED
In BGP, preference is given to which attribute during the route by AS?	Low MED Value
_____ is basically a set of routers, which lie under the single technical administration.	Autonomous System (AS)
For what reasons, the two bits are subtracted from the formula $2^{\text{bits}-2}$ (Choose two)	Broadcast and Network
How many hosts can be located on a network having a subnet mask of 27 bits?	30
At Datalink layer, the data is transferred in the form of _____	Frames
The IP addresses are divided into _____ portions	Two

SUBNETTING

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_____ is a process of breaking a large IP network in smaller IP networks.	
A single Private IP address is mapped with the legally registered public address in _____	Static NAT
A _____ is a group of devices created on one or more LANs that are configured to communicate as if they were attached to the same wire, when in fact they are located on some different LAN segments.	VLAN
_____ is used to authenticate the IPSec peers and to setup a second channel between the peers.	IKE Phase One
How many hosts can be addressed on 10.0.0.0/16?	65534
Which one is not a component of VPC?	PrivateLink
_____ is a logically isolated portion of the AWS cloud where you can launch AWS resources in your defined virtual network	VPC
In AWS, you can also create your own VPC quickly and easily via AWS console/CLI/API. You need to provide three main things. What are they?	Policies
The subnet that can be created is _____ that contains 16 million IP addresses.	/16
_____ is the Amazon VPC side of a connection to the public internet.	NAT Instance
Which of the following permissions acts at the subnet level?	NACL
Which VPC component is the core component without which network traffic management is not possible?	Route table
An Elastic Network Interface includes the following attributes:	MAC address, IPv6 address, Source/Destination check
Every Amazon VPC must have only one DHCP options set assigned to it.	True
How are you charged for elastic IP addresses?	Hourly, when they are associated with an instance.
What is an IGW?	IGW is a horizontally scaled, redundant and highly available component of VPC that allows communication between the instances in VPC and the internet.
To connect a VPC to your corporate network, which component is needed (Choose two)?	IGW and VGW
In default SG, all outbound traffic is _____	Allowed
In VPC, which AWS component is acting as a physical device?	CGW
How many VGW can you connect to one VPC?	FIVE
In which subnet architecture is there no concept of the public subnet?	VPC-only subnet
Which AWS service is used to communicate two VPC to each other?	VPC peering
Which of the following VPC component allows communication between instances to your VPC?	Endpoint
Reasons for migrating to the cloud can be of two types: Select the correct options (Choose two answers)	Reactive and Proactive Reasons
Which of the following is not the supported Hardware connectivity option in AWS?	Indirect Connection
Which is the logical representation of Customer Premises Equipment?	CGW

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Choose the two types of Virtual interfaces available in Direct connect?	Public and Private Virtual Interface
Which of the following advantages cannot be availed by using Software VPN?	Consistent Latency
AWS charges VPN connection on the basis of _____	Hours
You are hired by a company and want to connect their AWS VPC with the corporate datacenter. You have to provide a cost-effective solution for the connectivity. Which of the following would you select?	Hardware VPN
Which of the following information is provided by the VPN connection configuration file?	IP addresses, IKE information, IP stack information, BGP information
Which of the following connectivity options will you choose in order to connect two VPCs?	Software VPN
An IT Engineer is working to connect AWS VPC and Corporate DC where CPE is BGP capable. The budget of the company does not allow expensive solutions. Choose the best connectivity option.	Dynamic Hardware VPN
An IT Engineer is working to connect AWS VPC and Corporate DC, but this time CPE is BGP incapable. the budget of the company does not allow expensive solutions. Choose the best connectivity solution.	Static Hardware VPN
LOA stands for _____	Letter of Authority
Which type of connection is cross connect?	Physical connection
VIFs created in the external account are known as	Hosted VIF
Which of the following is a connection without using the public Internet?	Public VIF
In order to secure private VIF, which of the option is used?	Public VIF
Which of the following is the free facility in AWS in terms of Direct Connect?	Transfer IN
To connect multiple sites for IT networking and providing internet access to all, which of the following techniques is best?	Cloud Hub
In AWS, which service is used as DNS service?	Route53
Your web application is hosted in multiple AWS regions across the world. Which routing policy should you apply to provide your users with the fastest network performance?	Latency-based
If a user from the UK region accesses the application, which is in the UK region, then they can access it. When London based user tries to access the London based application, they can access it. Which Route53 Routing policy can you use for region specific routing?	Geo-location
If you want to use an on-premises platform with Route53, then which feature is used?	Hybrid DNS
Amazon Route53 does not perform:	Load Balancing
Amazon Route 53 is named Route 53 because:	The DNS port number is 53.
If a company wants to know the IPv4 address of its end-user, which technique will be used to identify it?	Through X-Forwarded-For header
Elastic Load Balancing supports routing and load balancing of	HTTP, HTTPS, and TCP
Which Load Balancer type is an internet facing Load Balancer?	External
For external Subnet, which size is the minimum allowed size for the subnet?	/27

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When ELB is created, it is allocated with a domain name which is an _____	A record
If you want load balancing across all registered instances inside subnets, then which feature of ELB is used?	Cross-zone load balancing
If you want to bind a user session to a specific instance, then which feature of load balancing is used?	Sticky session
In load balancing, what is the default value for an interval of the health check?	30
From which storage service can you easily get data on the web from anywhere?	Amazon S3
Amazon Glacier is used for _____	OBJECT STORAGE / Optimizing of Archiving data
What type of storage is Amazon S3?	Object storage
The key size of an object is _____	1024 Bytes
In S3 pricing, you need to pay for _____ and _____ (Choose any two)	Data transfer out and storage
When you need to share the data or files but do not want to be charged for the requests received for operation uploads and data downloads, which feature do you need to enable on the bucket?	Requester pays
How do you replicate the contents of one bucket to another bucket automatically?	Cross-region replication (CRR)
By using which feature of S3, can you allow private access to the bucket to only the authenticated user?	Pre-signed URL
Which feature from the following options is used to restrict the user of accessing the content at the country level?	Geo-restriction
If you use ELB as origin, which service is used for a custom SSL certificate?	Trusted CA and ACM
In which CloudFront Price class the Edge location is in the US, CA, and EU only?	100
Amazon VPC lets you provision your logically isolated section of the _____ where you can launch AWS resources in a user-defined virtual network.	AWS Cloud
A _____ is a cloud computing model, which offers an on-demand configurable pool of shared computing resources allocated within a public cloud environment.	VPC (Virtual Private Cloud)
Amazon VPC is the networking layer for _____	Amazon EC2
Which application feature allows you to collect the IP traffic information going to and from the network interfaces in your VPC?	VPC Flow Logs
Flow Logs capture the data related to _____	IP Traffic
A Flow Log can be created for _____	VPC, Subnet, Network Interface, all of the above
VPC Flow Logs monitor which type of traffic for the entities they are attached to?	Both Ingress & Egress
Publishing log data to CloudWatch or S3 requires an _____	IAM role
A flow log record is a log event, which consists of fields describing the network flow. Each record consists of 5-tuple.	True
Network ACLs are _____	Stateless
Why is the Accept Record generated?	Because ACL and Security Groups allow ICMP traffic
What is the name of the application that lets you run multiple OS on one physical server?	Hypervisor (Type 1 & 2)

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Which of the following types of virtualization is also the characteristic of cloud computing?	Storage, Application & CPU
For proper functioning, enhanced networking requires how many things?	An ENA tagged EC2 instance
The Elastic Network Adapter (ENA) supports network speed of up to _____	100 Gbps
_____ are logical groupings or clusters of instances in the selected AWS region.	Placement Groups
While creating a Placement Group, how many strategies can you define?	Three
A Cluster Group is the logical grouping of the instances within _____ Availability Zone.	SINGLE
The availability of Partition Placement Group can be made by using?	API and AWS CLI both