Guide to Fortinet NSE 6 Exam and AWS Cloud Security

Are you preparing for the **Fortinet NSE6_WCS-7-0 Exam**? This certification is crucial for anyone looking to enhance their skills in *cloud security*, especially within the *AWS* environment. In this guide, we'll provide you with practical tips and strategies that can help you ace the exam and understand fundamental concepts around cloud security with Fortinet. For more resources, visit this link.

Understand Fortinet NSE 6

The **Fortinet NSE 6** certification focuses on cloud security solutions offered by Fortinet. This certification is not just a piece of paper; it demonstrates your ability to handle Fortinet's robust security tools in the Amazon Web Services (AWS) environment. By mastering the concepts in this certification, you can significantly enhance your career prospects.

Importance of Cloud Security AWS

With more businesses migrating to the *cloud*, understanding cloud security has become more critical than ever. Amazon Web Services (AWS) provides a range of services, but managing security is a shared responsibility. Familiarize yourself with the tools and best practices Fortinet offers to secure your AWS cloud environment.

NSE6_WCS-7-0 Exam Overview

This exam assesses your knowledge of cloud security and your ability to integrate Fortinet solutions with AWS services. Prepare yourself with a study plan that includes:

- Hands-on practice
- Online resources
- Study groups

Prioritize understanding the core concepts of how to secure cloud assets against threats.

Getting Fortinet Certification

Obtaining your Fortinet certification signals to employers that you have the skills needed to manage cybersecurity risks. It's essential to understand the prerequisites for the NSE6_WCS-7-0 exam, as well as the various training modules offered by Fortinet. Commit to continued **learning** to stay ahead in this ever-changing field. Check [this resource](#) for more information.

AWS Security Best Practices

Knowing the best practices for AWS security is crucial in today's digital landscape. Ensure you are familiar with:

- Access management

- Encryption standards

- Compliance measures necessary to protect cloud data

Utilize Fortinet tools to implement multi-layered security strategies effectively.

FortiGate AWS Integration

FortiGate seamlessly integrates with AWS, providing advanced security features. Learning how to deploy FortiGate in your AWS environment is key to ensuring a secure network. Consider exploring case studies on successful FortiGate integrations to see real-world applications of these tools.

Practice Exam and Resources

Practice exams simulate the test environment and are invaluable. Use them to gauge your readiness and identify weak areas. Pair this practice with comprehensive study materials, forums, and community discussions to enhance your understanding further.

Time Management for the Exam

Managing your time during the NSE6_WCS-7-0 exam is crucial. Familiarize yourself with the format of the questions and set time goals for each section. This strategy can reduce anxiety and help you maintain focus throughout the exam.

Join Study Groups

Getting involved in study groups allows you to share knowledge and gain insights from others who are also preparing for the exam. These groups can provide support and unique

perspectives on challenging concepts.

Walkthrough the Exam Guidelines

Before sitting for the NSE6_WCS-7-0 exam, carefully read through all official exam guidelines provided by Fortinet. Understanding the exam structure, scoring, and rules can help you approach the exam with confidence.

Final Thoughts on Your Certification Journey

Obtaining the Fortinet NSE 6 certification is a significant step in your professional career. Remember to celebrate small victories during your preparation, and keep your ultimate goal in sight. With determination and the right strategies, you'll be well on your way to passing the exam and securing a bright future in cloud security.

Real Exam Questions 2025

Below given questions are for demo purposes only. **The full version** is up-to-date and contains actual questions and answers.

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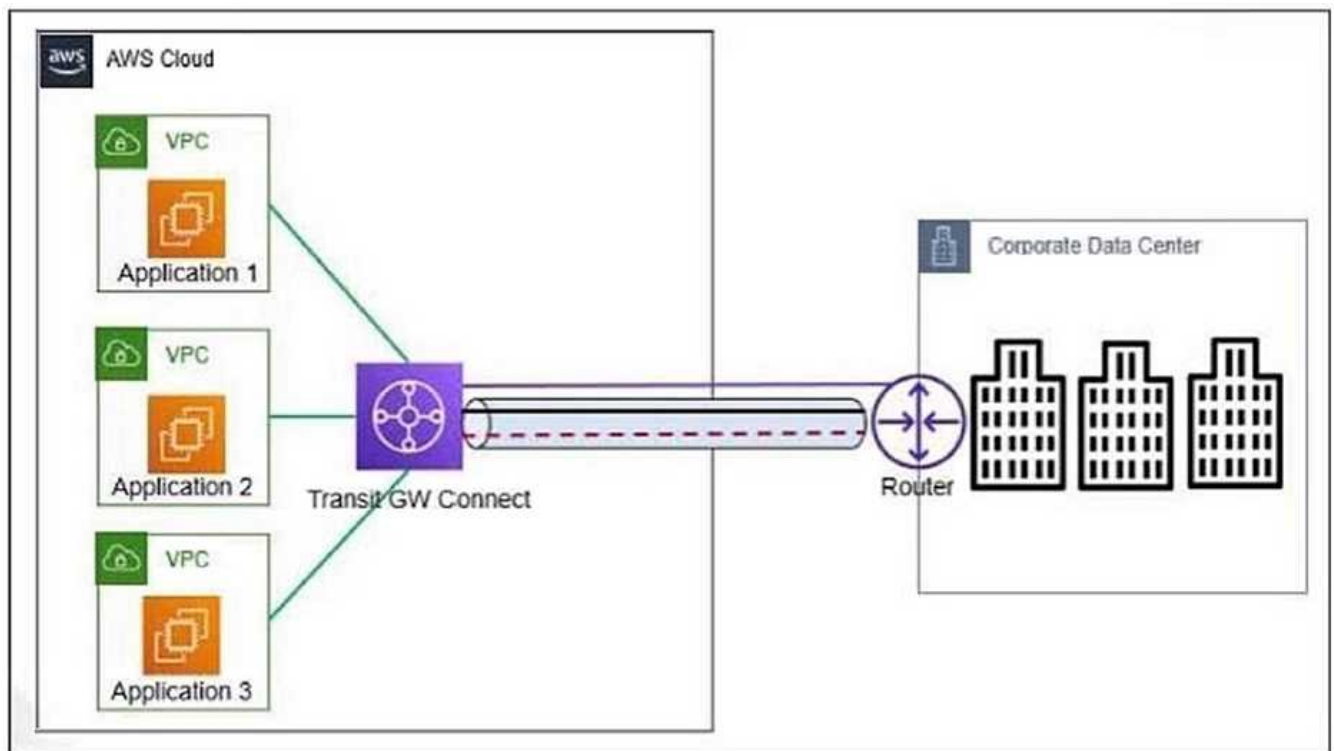
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Version: 4.0

Question: 1

Refer to the exhibit.

An organization deployed the application servers in the AWS VPC that connects to the corporate data center using Transit Gateway Connect. Demand for the applications has grown and the connection requires more bandwidth.

What is required to achieve higher bandwidth?

A. Use routable public IP addresses instead of private IP addresses for connectivity.
B. You cannot increase bandwidth the connection has a fixed limit.
C. No configuration change is required because GRE tunnels are scaled to provide higher bandwidth.
D. You add a Transit VPC between the organization's VPCs.

Answer: C

Explanation:

Understanding Transit Gateway Connect:
Transit Gateway Connect is a feature of AWS Transit Gateway that simplifies the integration of SD-WAN
networks with AWS. It uses Generic Routing Encapsulation (GRE) tunnels to facilitate this connection.
GRE Tunnels and Bandwidth:
GRE tunnels can dynamically scale to meet increasing bandwidth demands. They allow multiple tunnels
between the same endpoints, which can aggregate bandwidth without requiring additional
configuration.
Scaling Bandwidth with GRE:
The GRE protocol used by Transit Gateway Connect can support high bandwidth requirements by
spreading traffic across multiple tunnels. As demand grows, additional tunnels can be automatically used
to handle the increased traffic load.
Comparison with Other Options:
Option A suggests using public IP addresses, which is not relevant to bandwidth scaling.
Option B is incorrect because bandwidth can be increased through GRE scaling.
Option D suggests adding a Transit VPC, which is unnecessary for increasing bandwidth when using
Transit Gateway Connect.
Reference:
AWS Transit Gateway Documentation: AWS Transit Gateway
GRE Tunnels and AWS: AWS GRE Tunnels

Question: 2

You want to deploy the Fortinet HA CloudFormation template to stage and bootstrap the FortiGate
configuration in the same region in which you created your VPC, which is Ohio US-East-2.
Based on this information, which statement is correct?

A. You create an S3 bucket to stage and bootstrap FortiGate with an FGCP unicast configuration. The S3
bucket can be hosted in any region.
B. The Fortinet HA cloud formation template automatically creates an S3 bucket.
C. You create an S3 bucket to stage and bootstrap FortiGate with an FGCP unicast configuration. The S3
bucket needs to be hosted in the Ohio US-East-2 region.
D. You create a DynamoDB to stage and bootstrap FortiGate with an FGCP unicast configuration. It needs
to be hosted in the Ohio US-East-2 region.

Answer: C

Explanation:
Understanding Fortinet HA CloudFormation Template:
The Fortinet High Availability (HA) CloudFormation template is used to automate the deployment and
configuration of FortiGate instances in AWS.
Staging and Bootstrapping FortiGate:
Staging involves preparing the necessary configuration files and resources needed for deployment.
Bootstrapping is the process of automatically configuring FortiGate instances upon deployment.
S3 Bucket Requirement:
The configuration files required for staging and bootstrapping are typically stored in an S3 bucket.
Since the deployment is in the Ohio (US-East-2) region, it is recommended to host the S3 bucket in the
same region to minimize latency and ensure regional compliance.

Comparison with Other Options:

Option A is incorrect because while an S3 bucket is required, it should be in the same region (US-East-2).

Option B is incorrect as the template does not automatically create the S3 bucket.

Option D is incorrect as DynamoDB is not used for staging and bootstrapping in this scenario.

Reference:

Fortinet Documentation: FortiGate on AWS

AWS S3 Documentation: AWS S3

Question: 3

An organization has the requirement to connect a data VPC to the on-premises infrastructure of a branch office in a hybrid cloud environment. The connectivity needs the higher bandwidth but the organization does not want to use multiple connections between sites.

Which AWS solution meets the requirement?

A. Transit VPC with IPSec

B. Internet Gateway

C. Transit Gateway multicast

D. Transit Gateway Connect

Answer: D

Explanation:

Understanding the Requirement:

The organization needs to connect a data VPC to the on-premises infrastructure with high bandwidth.

The solution should avoid multiple connections between sites.

Transit Gateway Connect:

Transit Gateway Connect is designed to integrate with SD-WAN networks and provides scalable bandwidth using GRE tunnels.

It simplifies hybrid cloud connectivity by allowing high bandwidth connections without the need for multiple physical connections.

Benefits of Transit Gateway Connect:

Supports scalable bandwidth through GRE tunnels.

Facilitates seamless integration with on-premises and cloud environments.

Reduces complexity by avoiding the need for multiple VPN connections.

Comparison with Other Options:

Option A (Transit VPC with IPSec) is not preferred due to complexity and potential limitations in bandwidth scalability.

Option B (Internet Gateway) is not suitable for private, high-bandwidth connections.

Option C (Transit Gateway multicast) does not address the requirement for high bandwidth in a hybrid cloud setup.

Reference:

AWS Transit Gateway Documentation: AWS Transit Gateway Connect
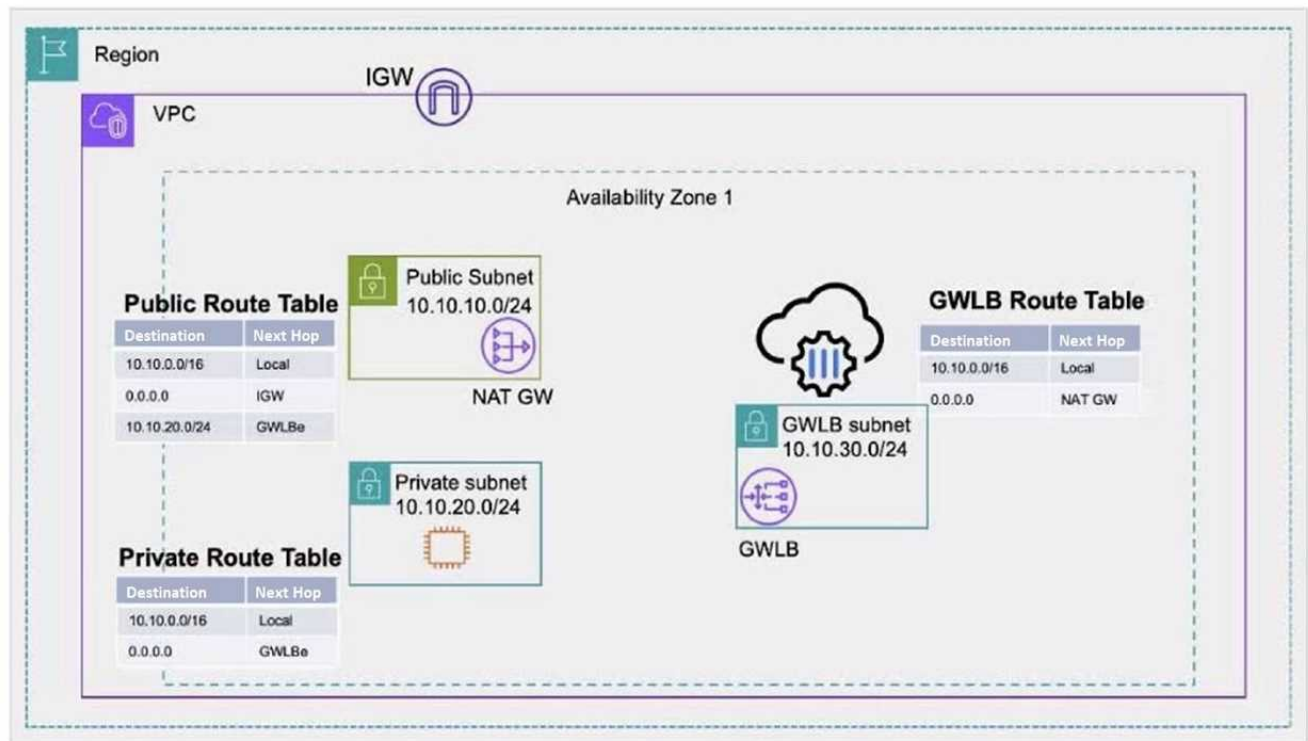
Hybrid Cloud Connectivity: AWS Hybrid Cloud

Question: 4

Refer to the exhibit.

FortiGate CNF deployment

Traffic is initiated from the EC2 instance and is destined for the internet.

Which traffic flow is correct?

A. EC2 instance > NAT GW > IGW > internet
B. There is no route to the internet in the Private Route Table. The traffic does not reach the internet.
C. EC2 instance > GWLBe > NAT GW > IGW > internet
D. EC2 instance > GWLBe > internet

Answer: C

Explanation:
Understanding the Architecture:
The architecture includes an EC2 instance in a private subnet, a Gateway Load Balancer Endpoint (GWLBe), a NAT Gateway (NAT GW), and an Internet Gateway (IGW).
Route Tables and Routing:
The private route table for the subnet containing the EC2 instance has a route pointing to the GWLBe for internet-bound traffic.
The public route table for the subnet containing the NAT Gateway has routes to the IGW.
Traffic Flow Analysis:

Traffic initiated from the EC2 instance destined for the internet will first be routed to the GWLBe as per the private route table.

The GWLBe will forward the traffic to the NAT Gateway.

The NAT Gateway will then route the traffic to the IGW, which finally sends the traffic to the internet.

Comparison with Other Options:

Option A suggests direct routing to the NAT GW from the EC2 instance, which is incorrect.

Option B incorrectly states there is no route to the internet in the private route table.

Option D suggests direct routing from GWLBe to the internet, which is not the case.

Reference:

AWS Documentation on Route Tables: AWS Route Tables

Gateway Load Balancer Overview: AWS Gateway Load Balancer

Question: 5

A customer has implemented GWLB between the partner and application VPCs. FortiGate appliances are deployed in the partner VPC with multiple AZs to inspect traffic transparently.

Which two things will happen to application traffic based on the GWLB deployment? (Choose two.)

A. Inbound and outbound traffic will go to multiple devices, which will perform load balancing.

B. Inbound and outbound traffic will go to the same device, which will perform stateful processing.

C. The content of the original traffic exchanged between the GWLB and FortiGate will be preserved.

D. The original traffic exchanged between the GWLB and FortiGate will be hashed for data integrity.

Answer: A, B

Explanation:

Understanding Gateway Load Balancer (GWLB):

GWLB is designed to distribute traffic across multiple appliances for both inbound and outbound traffic, providing scalability and high availability.

Traffic Load Balancing:

GWLB can send traffic to multiple FortiGate appliances for load balancing purposes, ensuring efficient use of resources (Option A).

Stateful Processing:

For stateful processing, GWLB ensures that traffic flows (both inbound and outbound) for a given connection are directed to the same FortiGate appliance. This maintains session integrity (Option B).

Preservation and Hashing of Traffic:

Options C and D are incorrect as they suggest incorrect behavior regarding traffic content preservation and hashing for data integrity, which are not primary functions of GWLB.

Reference:

AWS Gateway Load Balancer Documentation: AWS Gateway Load Balancer

FortiGate Integration with GWLB: Fortinet Documentation

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