

QUESTION 3

ACE Inc. currently uses AWS as their primary cloud provider with a strong desire to expand to Azure and GCP. IT team has strict security and control requirements from different business units that require isolation and control from each other. The different business units want

- to own their own transit architecture
- the ability to control firewall rules for their own application
- to not share same transit with other business units but have ability to connect to other business units if needed

The architecture board has mandated that there needs to be a single design pattern that accommodates above requirements irrespective of the public cloud vendor being used.

Choose the best design option to meet above needs. Each option presents a complete solution.

SELECT THE CORRECT ANSWER

- ☐ Use AWS Transit Gateway (TGW). Deploy several TGWs in each region and peer them together as needed. Use TGW VPN to build IPSec tunnels to Azure Virtual WAN and Google Cloud VPN.

QUESTION 2

Aviatrix Controller allows customers to export Netflow data from all or select Aviatrix Gateways to any Netflow collector on a custom port.

SELECT THE CORRECT ANSWER

- ☒ False
- ☐ True

[Clear answer](#)

QUESTION 1

When AWS Direct Connect, Azure ExpressRoute, Google InterConnect and OCI FastConnect are encrypted without using Aviatrix High Performance Encryption, the effective throughput is reduced to ____.

SELECT THE CORRECT ANSWER

- ☒ 1.25 Gbps
- ☐ 10.25 Gbps
- ☐ 5.25 Gbps
- ☐ 525 Mbps

[Clear answer](#)

QUESTION 4

Aviatrix Controller provides a VPC Creator tool that allows customers to create VPC, VNETs across multiple clouds like AWS, GCP, Azure and OCI from single pane of glass.

SELECT THE CORRECT ANSWER

- ☒ True
- ☐ False

[Clear answer](#)

QUESTION 5

Using AWS Terraform provider, a customer created an AWS Transit Gateway with 50 VPCs attached to it. After attaching the VPCs and spinning up some EC2 instances in them, none of the instances can communicate with each other. What should be done to resolve the issue?

SELECT THE CORRECT ANSWER

- ☒ There must be security group rules blocking traffic as AWS auto configures VPC routing tables
- ☐ Configure BGP communities in VPC such that all VPCs that need to communicate with each other have same community defined
- ☐ Create routing tables in each VPC, add CIDR for all the other VPCs in the routing table pointing to AWS Transit Gateway
- ☐ There must be security group rules blocking traffic as BGP in VPC auto configures VPC routing tables

[Clear answer](#)

QUESTION 6

Choose **two statements** that best describe Aviatrix UserVPN/OpenVPN service.

SELECT THE CORRECT ANSWERS

- ☒ Requires AWS NAT Gateway
- ☒ Is limited to one Gateway per VPC/VNET
- ☒ Can integrate with DUO for MFA
- ☒ Can integrate with Active Directory

[Clear answer](#)

QUESTION 7

Aviatrix platform has several operational features and capabilities built-in to help network engineers perform day to day operational tasks.

Below, match the Aviatrix platform feature with the operational problem it addresses.

DRAG THE BOXES TO MATCH THE ANSWERS

Packet Capture	?	A feature that allows users to export their current Controller configurations (resources) into Terraform files (.tf) and import them into their Terraform environment, facilitating an easy transition to using Terraform to manage their infrastructure.
Ping and Traceroute	?	A tool that collects and helps you manage your network CIDR ranges at a central place, eliminating the need to keep an Excel sheet on all your VPC network addresses allocations.
Export to Terraform	?	Ability to take live packet capture at any spoke VPC/VNet/VNC and also display it in Wireshark.
VPC Tracker	?	Ability to run basic troubleshooting tools from a simplified UI.

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Ping and Traceroute	A tool that collects and helps you manage your network CIDR ranges at a central place, eliminating the need to keep an Excel sheet on all your VPC network addresses allocations.
Export to Terraform	A feature that allows users to export their current Controller configurations (resources) into Terraform files (.tf) and import them into their Terraform environment, facilitating an easy transition to using Terraform to manage their infrastructure.
VPC Tracker	Ability to take live packet capture at any spoke VPC/VNet/VNC and also display it in Wireshark.

QUESTION 8

An operator needs to create a new VPC, VCN or VNet using Aviatrix Controller.
Can the operator use Aviatrix VPC Tracker feature to validate potential CIDR/Prefix/Address space duplication across multiple clouds?

SELECT THE CORRECT ANSWER

- ☒ True
- ☐ False

[Clear answer](#)

QUESTION 9

Operations team has noticed that during the peak working hours, Aviatrix Gateway's throughput utilization stays around 80% of the current instance size. A decision has been made to scale up the instance size to provide more throughput. Which below statement accurately describes instance sizing of Aviatrix Gateways?

SELECT THE CORRECT ANSWER

- ☐ Aviatrix Gateways can scale down but not scale up
- ☒ Aviatrix Gateways instance size has to be chosen at deployment and can't change later
- ☐ Aviatrix Gateways can scale up but not scale down
- ☒ Aviatrix Gateways can scale up and down both

[Clear answer](#)

QUESTION 10

As a Cloud Networking Consultant, you are reviewing a Microsoft Azure Virtual WAN network design that will be used to connect several VNets, branches, users and a Data Center (using ExpressRoute). What are some known challenges with this design pattern?

(Choose 3)

SELECT THE CORRECT ANSWERS

- ☒ No support for multi-cloud
- ☒ Lack of encryption within the cloud
- ☒ Inability to selectively advertise routes
- ☐ No support for BGP
- ☐ No support for VPN Users
- ☐ Inability to have default any to any connectivity

[Clear answer](#)

QUESTION 11

Which Aviatrix Controller feature automates the configuration of AWS Transit Gateway, VPC Route Tables, Direct Connect learned routes and Security Domain?

SELECT THE CORRECT ANSWER

- ☐ Aviatrix Site to Cloud (S2C)
- ☐ Aviatrix High Performance Encryption (HPE)
- ☒ Aviatrix Firewall Networks (FireNet)
- ☐ Aviatrix AWS TGW Orchestrator

[Clear answer](#)

QUESTION 12

What is a challenge of using VNet peering for transit in Azure?

SELECT THE CORRECT ANSWER

- ☒ Limited bandwidth available over peering connections
- ☐ Requires BGP to be configured
- ☒ Doesn't scale well as its a 1:1 mapping
- ☐ Limited to a single region

[Clear answer](#)

QUESTION 13

Choose the two best statements that describe challenges of deploying a NextGen Firewall (NGFW) in public cloud.
(Choose 2)

SELECT THE CORRECT ANSWERS

- ☒ Reduced visibility due to NAT
- ☒ Firewalls can only be deployed in Active/Standby
- ☐ Reduced firewall feature availability
- ☐ Reduced effective throughput of the NGFW
- ☐ Firewalls can only be deployed in Active/Active

[Clear answer](#)

QUESTION 14

The feature in Aviatrix Controller that allows customers to see path between two instances/AMI/EC2/VM (including, but not limited to Security Groups, ACLs, Routes, etc.) is called:

SELECT THE CORRECT ANSWER

- ☒ FlightPath
- ☐ Netflow
- ☐ FlightControl
- ☐ Network Connectivity Test

[Clear answer](#)

QUESTION 15

ACE Inc. has been using a 10 Gbps ExpressRoute connection into Microsoft Azure. Security and compliance team has recently flagged this as a policy violation as company data is going unencrypted over untrusted transport. What are the encryption options available to ACE Inc. for connecting to Azure?
(Choose 2)

SELECT THE CORRECT ANSWERS

- ☐ Data over ExpressRoute is encrypted by default
- ☐ You can open a support ticket with Microsoft Azure to encrypt at 10 Gbps
- ☒ Use Aviatrix High Performance Encryption over ExpressRoute to encrypt at 10 Gbps line rate
- ☒ Manually build IPSec tunnel from on-prem router to cloud over ExpressRoute to achieve a reduced throughput of 1.2 Gbps

[Clear answer](#)

QUESTION 16

Few key differences between Aviatrix based transit and other non-Aviatrix 3rd party transit (such as Cisco CSR) are:
(Choose 2)

SELECT THE CORRECT ANSWERS

- ☒ Aviatrix transit architecture lets you choose any instance size. Throughput will depend on the instance size characteristics
- ☐ Cisco CSR based transit lets you choose any instance size. Throughput will depend on the instance size characteristics
- ☐ Aviatrix based transit can do 1.25 Gbps encrypted throughput whereas Cisco CSR can do up to 70 Gbps
- ☒ With default settings, Cisco CSR based transit can do 1.25 Gbps encrypted throughput whereas Aviatrix can do up to 70 Gbps

[Clear answer](#)

QUESTION 17

Match the issues of deploying firewalls in public cloud to appropriate problem statement

DRAW THE BOXES TO MATCH THE ANSWERS

When using 3rd party NextGen FWs deployed in a Azure Hub VNet	?	the general recommendation is to deploy firewalls in each VPC
When using native features of Google Cloud Platform and a 3rd party NextGen Firewall is needed	?	scaling out of firewalls is not possible
When using AWS native Transit Gateway and a 3rd party NextGen Firewall is deployed as Active/Active	?	throughput of each NetGen FW is limited to 500 Mbps
When using AWS native Transit Gateway and a 3rd party NextGen Firewall is deployed as Active/Standby	?	static routes are needed to manually redirect interesting traffic to load-balancers

QUESTION 18

Choose two examples where you would leverage the Aviatrix Controller's S2C (Site-2-Cloud) workflow?
(Choose 2)

SELECT THE CORRECT ANSWERS

- ☒ Connect your branch office to the cloud resources
- ☐ Connect two branch offices directly to each other
- ☒ Connect several telecommuting employees to cloud resources based on their geographic location
- ☐ Connect a partner directly to a VPC/VNET hosting your application

[Clear answer](#)

QUESTION 19

What is Aviatrix CoPilot?

SELECT THE CORRECT ANSWER

- ☐ A tool inside Aviatrix Controller to run FlightPath and other troubleshooting aspects
- ☐ A tool that is used to upgrade Aviatrix Controller and perform other maintenance tasks
- ☒ A component of Aviatrix platform that provides end to end visibility showing deployment overview, cloud topology and provides views based on Netflow data
- ☐ A product that run analytics and machine learning against the architecture

[Clear answer](#)

QUESTION 20

Aviatrix Gateways support NAT capability in which public cloud?

SELECT THE CORRECT ANSWER

- ☐ AWS
- ☒ All the the Public Cloud listed here in the options
- ☐ Google Cloud
- ☐ Microsoft Azure

[Clear answer](#)

QUESTION 21

Aviatrix platform provides rich capabilities around networking, security and operations in public cloud networks. In addition to Aviatrix Transit, it also helps customers overcome limitations of native public cloud constructs. Below, match the Aviatrix platform capability for AWS Transit Gateway (TGW) with the appropriate problem description.

DRAW THE BOXES TO MATCH THE ANSWERS

AWS TGW Route Approval	Customers are responsible for managing route tables at TGW and all the VPCs which is a huge administrative and technical overhead for customers.
AWS TGW View	Inability to have consolidated list of VPCs across AWS TGWs, accounts, regions with CIDRs, IDs etc.
AWS TGW Route Audit	If someone makes a mistake and inserts bad routes, manually or via automation such as terraform, there is no ability to catch this common issue.
AWS TGW List	With multiple Transit Gateways and VPCs attached to them, there is a need for visualization to map how VPCs and TGWs are connected.
AWS TGW and VPC route table orchestration	When a route is advertised over BGP, this route is automatically propagated to all VPCs. There needs to be an ability for the network engineers to approve the route before it is propagated.

QUESTION 22

ACE Inc. needs to deploy a single consistent network infrastructure across AWS, Azure, GCP and OCI using Aviatrix. How many Aviatrix controllers will be needed?

SELECT THE CORRECT ANSWER

- ☐ 3
- ☐ 2
- ☐ 4
- ☒ 1

[Clear answer](#)

QUESTION 23

As a Cloud Networking Consultant, you are reviewing a Microsoft Azure network design that will be using Microsoft Azure ExpressRoute Edge routers as transit for inter-VNet communication. What are some known challenges with this design pattern?

SELECT THE CORRECT ANSWER

- ☐ Multiple customers using same edge router may create noisy neighbor issues
- ☐ Lack of visibility into traffic at the edge routers
- ☐ No granular control to be able to route VNets selectively
- ☒ All of the above

[Clear answer](#)

QUESTION 24

A Customer has 100 VPCs in GCP that they want to be able to route between. What are some of the solutions customers can use. Each option represents a complete solution.
(Choose 2)

SELECT THE CORRECT ANSWERS

- ☒ Google already provides global routing for inter-VPC traffic
- ☒ Use Aviatrix Transit solution to connect the VPCs with a Transit VPC running Aviatrix Gateways
- ☐ Manually configure routing tables in each VPC
- ☐ Use Google Routers
- ☐ Build full mesh connectivity using VPC Peering

[Clear answer](#)

QUESTION 25

ACE Inc. has a Direct Connect for their on-premise location to connect to AWS. Security team has recently been notified of issues where employees and contractors working from the on-premise location are using non-corporate (personal or public) S3 buckets using ACE Inc.'s Direct Connect. This is overwhelming the Direct Connect and also showing the source of traffic to these S3 buckets as ACE Inc. which has potential compliance and security risks.

As a cloud architect, you are tasked with securing the Direct Connect for specific ACE Inc. corporate S3 buckets access only.

Which Aviatrix feature can help ACE Inc. overcome this problem?

SELECT THE CORRECT ANSWER

- ☐ Aviatrix FlightPath
- ☐ Aviatrix CoPilot
- ☒ Aviatrix Private S3
- ☐ Aviatrix Multi-Account Onboarding

[Clear answer](#)

QUESTION 26

Which AWS feature does Aviatrix integrate with to provide Public Subnet Filtering for Ingress Internet Traffic to a VPC?

SELECT THE CORRECT ANSWER

- ☒ AWS GuardDuty
- ☐ AWS Shield
- ☐ AWS WAF
- ☐ AWS Inspector

[Clear answer](#)

QUESTION 27

Customer has an Aviatrix Controller deployed in AWS and wants to back up the Aviatrix Controller configuration. Where would the backup file be saved?

SELECT THE CORRECT ANSWER

- ☒ An S3 bucket
- ☐ SFTP Server
- ☐ On one of the Aviatrix Gateways
- ☐ FTP Server

[Clear answer](#)

QUESTION 28

What is one of the limitations of Microsoft Azure ExpressRoute that becomes more problematic in a Virtual WAN deployment with 'any-to-any' default connectivity behavior?

SELECT THE CORRECT ANSWER

- ☐ BGP is not allowed over ExpressRoute when used with Virtual WAN
- ☐ From Azure cloud, only 200 routes can be advertised to on-prem over a single ExpressRoute Gateway
- ☒ You have to use Microsoft Edge Routers as transit between VNets
- ☐ Use of Azure Firewall is required

[Clear answer](#)

QUESTION 29

Customers do not need to sign a separate licensing agreement with Aviatrix to get started because controller can be launched from any cloud provider's Marketplace (Pay-As-You-Go metering).

SELECT THE CORRECT ANSWER

- ☒ False
- ☐ True

[Clear answer](#)

QUESTION **30**

What are some limitations of using Public Cloud Provider's (AWS, Azure, GCP, OCI) native VPN Gateways that network engineers must account for in their deployments?

(Choose 2)

SELECT THE CORRECT ANSWERS

- ☒ No support for NAT which becomes problematic in case of overlapping IPs and connecting to (customer and partner) sites where IP allocation is out of your administrative control
- ☐ No support for Active/Active deployment
- ☒ Inability to use common troubleshooting tools like ping, traceroute
- ☐ Only support UDP

[Clear answer](#)

QUESTION **31**

An example of when would you use Aviatrix FlightPath is:

SELECT THE CORRECT ANSWER

- ☐ To insert Firewall into traffic path between 2 VPCs
- ☐ To connect your branch office to the cloud resources
- ☐ To view controller logs
- ☒ To troubleshoot connectivity between EC2 instances in 2 AWS VPCs

[Clear answer](#)

QUESTION 32

Choose the best definition for Firewall Network (FireNet)?

SELECT THE CORRECT ANSWER

- ☒ Aviatrix turn key solution to scalably deploy firewall instances in the cloud
- ☐ Azure functionality to deploy 3rd party firewalls in a VPC
- ☐ AWS functionality to deploy 3rd party firewalls in a VPC
- ☐ GCP functionality to deploy 3rd party firewalls in a VPC

[Clear answer](#)

QUESTION 33

ACE Inc. had been using a standard marketplace router as an NVA (Network Virtual Appliance) in the hub Virtual Network (VNet) for spoke to spoke communication. The NVA has just been replaced by Azure Firewall.

Now the security operations team is reporting that traffic between Virtual Machines in the same VNet is working however any inter-VNet traffic is being dropped by the NSGs (Network Security Groups) at destination. What could be a possible reason?

SELECT THE CORRECT ANSWER

- ☐ Azure Firewall is blocking all the traffic
- ☐ There is no route at the Azure Firewall
- ☒ Azure Firewall is doing SNAT for inter-VNet traffic
- ☐ BGP routes in UDR need to be updated

[Clear answer](#)

QUESTION 34

What is a challenge of using ExpressRoute Edge Routers as transit to interconnect VNets in Azure?

SELECT THE CORRECT ANSWER

- ☐ Not recommended by Microsoft Product Group / not officially documented
- ☐ BW limited by ExpressRoute Gateway SKU
- ☐ Limited Control of routing propagation
- ☒ All of the above

[Clear answer](#)

QUESTION 35

Which networking entity in the cloud infrastructure allows operators to run commands to see BGP state, route tables, diagnostic, logs etc.

SELECT THE CORRECT ANSWER

- ☐ AWS VPC Implicit Router
- ☐ Azure VNET Router
- ☐ Google Cloud Router
- ☒ Aviatrix Gateway

[Clear answer](#)

QUESTION 36

High speed private connectivity from customer locations (data centers, Headquarters) to public cloud such as AWS Direct Connect, Azure ExpressRoute, Google InterConnect and OCI FastConnect are encrypted by default?

SELECT THE CORRECT ANSWER

- ☐ True
- ☒ False

[Clear answer](#)

QUESTION 37

What is/are the protocol(s) supported by Aviatrix Site2Cloud (S2C) Gateway?

SELECT THE CORRECT ANSWER

- ☐ GRE
- ☐ UDP only
- ☒ Both TCP and UDP
- ☐ TCP only

[Clear answer](#)

QUESTION 38

ACE Inc. is currently using AWS Transit Gateway (TGW) with 100 VPCs attached to it from different security domains.

These 100 VPCs are used as following:

- 20 VPCs belong to Production,
- 40 VPCs belong to Development,
- 20 are part of UAT and
- 20 VPCs are for shared services and miscellaneous common needs.

ACE Inc. requirements are to:

- provide network and traffic segmentation between Prod, Development, UAT VPCs such that there is no traffic between VPCs belonging to different domains
- allow all VPCs in each domain to communicate with each other
- allow every VPC access to shared services VPCs

Which Aviatrix feature would help to not only provide this segmentation but also decrease the complexity of this topology and routing configuration by orchestrating life-cycle management of AWS Transit Gateways?

(Choose 2)

SELECT THE CORRECT ANSWERS

- ☒ Aviatrix AWS-TGW Encrypted Peering
- ☐ Aviatrix TGW Orchestrator
- ☒ Aviatrix Security Domain
- ☐ Aviatrix Site-to-Cloud (S2C)

QUESTION 39

ACE Inc. has a VNet-A hosting Database services which is peered with several app VNets. There is a new requirement to add another CIDR to VNet-A. How can you prevent a database connectivity outage for all the peered VNets while performing this task?

SELECT THE CORRECT ANSWER

- ☐ Use powershell to update the VNet-A CIDR
- ☐ You cannot add a CIDR to a VNet after it has been created
- ☒ It's not possible to perform this action without an outage as you need to delete all existing peering before new CIDR can be added
- ☒ First modify peering routes for all the VNets to add the new CIDR and then add the new CIDR to VNET-A

[Clear answer](#)

QUESTION 40

Match the terminology to the appropriate Public Cloud provider

DRAW THE BOXES TO MATCH THE ANSWERS

GuardDuty		Google Cloud
VPC Global Routing		AWS
Virtual Network (VNet)		Microsoft Azure

QUESTION 41

Can the Aviatrix platform help you interconnect VPCs/VNets/VCNs with overlapping IP address ranges?

SELECT THE CORRECT ANSWER

- ☐ Yes, using standard encrypted peering
- ☒ Yes, using S2C (Site-to-Cloud)
- ☐ Yes, using FlightPath
- ☐ No

[Clear answer](#)

QUESTION 42

What are the connectivity options for customers to access Azure?

SELECT THE CORRECT ANSWER

- ☐ Internet Only
- ☐ VPN and Express Route
- ☒ Internet, VPN, and DirectConnect
- ☒ Internet, VPN, ExpressRoute

[Clear answer](#)

QUESTION 43

Choose the correct behavior around software upgrade and security patching of Aviatrix Platform.
(Choose 2)

SELECT THE CORRECT ANSWERS

- ☒ Aviatrix platform offers hitless upgrades
- ☐ Aviatrix platform software upgrade requires long downtime
- ☒ Security patching of the Aviatrix platform always requires a version upgrade for entire deployment
- ☒ Security patching of the Aviatrix platform can be done without requiring version upgrade of entire platform

[Clear answer](#)

QUESTION 44

As per the cloud architecture best practices guidelines in Multi-Cloud Network Architecture (MCNA), which component provides a consistent transit available in all regions across all public cloud providers.

SELECT THE CORRECT ANSWER

- ☐ Cloud Operations Layer
- ☒ Global Transit Layer
- ☒ Cloud Applications Layer
- ☐ Cloud Security Layer

[Clear answer](#)

QUESTION 45

Which Aviatrix solution lets customers connect and manage their branch Cisco ISR routers to AWS or Azure without requiring any manual effort on branch routers or replacement of equipment?

SELECT THE CORRECT ANSWER

- ☒ High Performance Encryption (Insane Mode)
- ☐ FlightPath
- ☐ Direct Connect
- ☒ CloudWAN

[Clear answer](#)

QUESTION 46

ACE Inc. has 50 VPCs in AWS with applications that need access to SaaS services on the internet using pre-defined FQDNs. Current deployment has AWS NAT instances deployed that allow full internet access. ACE Inc.'s security team has mandated that these applications should only be allowed access to pre-approved FQDNs.

You have been tasked to solve this problem considering the following three goals

1. Solution must be easy to implement
2. Same URLs definitions can be used for multiple applications
3. Keep the cost down

SELECT THE CORRECT ANSWER

- ☐ Deploy a WAF solution
- ☐ Deploy a NGFW firewall in each VPC
- ☒ Deploy Aviatrix Gateways to perform FQDN filtering
- ☐ Configure NAT policies on the AWS NAT instance

[Clear answer](#)

QUESTION 47

What native methods are available to configure Public Cloud Networks using Aviatrix Controller?
(Choose 3)

SELECT THE CORRECT ANSWERS

- ☐ Bash
- ☒ REST API
- ☒ UI (User Interface)
- ☐ Powershell
- ☒ Terraform

[Clear answer](#)