Azure Networking: 25 Medium Level MCQs

Questions

1. **Which of the following IP address ranges is valid for an Azure Virtual Network (VNet) using Classless Inter-Domain Routing (CIDR)?**

a) 172.16.0.0/12  
b) 256.1.0.0/16  
c) 192.0.2.1/33  
d) 10.0.0.0/7

2. **In Azure, what is used to filter network traffic to and from Azure resources within a Virtual Network?**

a) Azure Policies  
b) Route Tables  
c) Network Security Groups  
d) Security Center

3. **Which Azure service allows DNS resolution for resources within a specific Virtual Network without exposure to the Internet?**

a) Azure Front Door  
b) Azure DNS Private Zones  
c) Azure CDN  
d) Azure DNS Public Zones

4. **What is the main purpose of an Application Security Group (ASG) in Azure networking?**

a) Automatically encrypt all traffic  
b) Group VMs for easier network security management  
c) Assign static IPs to network interfaces  
d) Manage load balancing across regions

5. **VNet peering can be used to:**

a) Connect two VNets across different subscriptions  
b) Attach an on-premises network to a VNet  
c) Restrict outbound Internet access  
d) Assign DNS names to internal resources

6. **Which statement about service endpoints is correct?**

a) They route on-premises traffic through Azure  
b) Enable direct and secure connectivity to Azure services over Azure backbone  
c) Act as a physical firewall device  
d) Are required for VNet peering

7. **The main benefit of a private endpoint is:**

a) Assigning public IPs to resources  
b) Allowing direct Private Link connectivity to Azure PaaS services  
c) Providing VPN access to VNets  
d) Optimizing DNS resolution for external websites

8. **Which Azure load balancer SKU supports cross-zone load balancing?**

a) Standard  
b) Basic  
c) Premium  
d) ExpressRoute

9. **Which feature allows Azure Application Gateway to distribute traffic to different backend pools based on URL paths?**

a) TCP Reset  
b) URL-based routing  
c) NAT rules  
d) Load distribution

10**. What does Network Watcher primarily provide?**

a) Azure billing analytics  
b) VM encryption services  
c) Network monitoring and diagnostics  
d) Data storage optimization

11. You must enable what on a subnet to prevent all outbound Internet traffic?

a) Service endpoint  
b) Deny all outbound NSG rule  
c) Diagnostic logging  
d) User-defined route with a next hop to None

12. Which of the following is NOT a valid scenario for VNet peering?

a) Peering between VNets in different Azure regions  
b) Peering between VNets in the same subscription  
c) Peering between VNets with overlapping address spaces  
d) Peering between VNets in different subscriptions

13. An ASG can be associated with:

a) Network interfaces of Virtual Machines  
b) Azure DNS Zones  
c) Azure Key Vault  
d) Azure App Services only

14. Which record type would you use to host a custom domain in Azure DNS for a website?

a) CNAME  
b) MX  
c) PTR  
d) SRV

15. What is required to resolve names in a private Azure DNS zone from a specific VNet?

a) Register the VNet with the DNS zone  
b) Enable DDoS Protection  
c) Configure Route Tables  
d) Assign a public IP

16. Which Azure resource allows you to analyze IP flow to or from a VM?

a) Application Gateway  
b) Network Security Group  
c) Network Watcher IP Flow Verify  
d) Load Balancer

17. If you want to balance both inbound and outbound TCP/UDP traffic, you should use:

a) Azure Front Door  
b) Azure Application Gateway  
c) Azure Load Balancer  
d) Azure Traffic Manager

18. What is a requirement for a VNet peering connection?

a) VNets cannot have overlapping IP address ranges  
b) Both VNets must be in the same region  
c) VNets must use the same DNS server  
d) Peering is only available to Premium subscriptions

19. Which resource lets you enforce security rules based on application workloads and not just IP addresses?

a) Route Table  
b) Azure Firewall  
c) Application Security Groups  
d) ExpressRoute Circuit

20. What is the main advantage of using a Standard SKU Azure Load Balancer instead of Basic?

a) Supports only internal load balancing  
b) Offers zone-redundancy and higher scale  
c) Free of charge  
d) Requires a manual failover

21. Network Security Group rules are evaluated in what order?

a) By priority number, lowest to highest  
b) Alphabetically  
c) By source port  
d) By destination port

22. Which Azure service converts public DNS queries into private IPs inside a VNet using DNS records?

a) Azure DNS Private Zones  
b) Azure Key Vault  
c) ASG  
d) Network Watcher

23. A service endpoint is primarily used to:

a) Expose Azure services on the Internet  
b) Extend an on-premises network into Azure  
c) Securely connect VNets to Azure services  
d) Define static routes between subnets

24. The Diagnostics settings in Network Watcher allow you to:

a) Encrypt network traffic  
b) Enable/disable application gateways  
c) Send logs to a Log Analytics workspace  
d) Create virtual networks

25. Which component provides Layer 7 Load Balancing in Azure?

a) Azure Load Balancer  
b) Azure Application Gateway  
c) VNet Peering  
d) Service Endpoint

Answers

1. a
2. c
3. b
4. b
5. a
6. b
7. b
8. a
9. b
10. c
11. b
12. c
13. a
14. a
15. a
16. c
17. c
18. a
19. c
20. b
21. a
22. a
23. c
24. c
25. b