

WEEK - 4

Networking Services

Quiz : Network Services Simulation

- 1) We need to connect to the internet - **Router**
- 2) We need to reduce internal collision domains - **Switch**
- 3) People can't remember so many IP address - **DNS**
- 4) Configuring the network setting for every desktop is becoming a real problem - **DHCP**
- 5) Our travelling sales people need to access internal resources on the road - **VPN**
- 6) I'm worried people are going to break into our network - **Firewall**
- 7) We're running out of IP address, we'll need to have a way to use non- routable address space - **NAT**

Quiz : Networking Services

- 1) A technique that's used to route traffic to different destinations, depending on factors like location, congestion, or link health, is known as - **anycast**
- 2) A DNS record that's used to redirect traffic from one domain name to another is known as a **CNAME** record.
- 3) A **PTR** record is responsible for resolving an IP to a domain name.
- 4) When a range of IP addresses is set aside for client devices, and one of these IPs is issued to these devices when they request one, this is known as **dynamic** allocation.
- 5) A service that might appear to be a single server to external clients, but actually represents many servers living behind it, is known as a **reverse proxy**
- 6) Which type of Domain Name System (DNS) server performs a full name resolution request - **Recursive name server**
- 7) The "www" portion of a domain is known by which of the given options? Check all that apply
 - a) **Subdomain**
 - b) **Host name**
- 8) Which of the following allows computers on a network to automatically receive address assignment information - **Dynamic Host Protocol (DHCP)**
- 9) Network Address Translation (NAT) is typically implemented with which hardware devices? Check all that apply - **Routers , Firewalls**
- 10) Which technology uses a tunneling protocol ? - **Virtual Private Network (VPN)**
- 11) What port on a name server is used for User Datagram Protocol (UDP) name request packets - **22**
- 12) A new Domain Name System (DNS) server is being configured. Which record type is used to declare a new zone - **State of Authority (SOA)**
- 13) Which allocation method can be used with a Dynamic Host Configuration (DHCP) server to assign the same address to the same machine if possible - **Automatic**
- 14) A Virtual Private Network (VPN) uses a particular layer from the OSI reference model to carry an encrypted payload that actually contains an entire second set of packets. Which layer is used? - **Transport**
- 15) The Domain Name System (DNS) provides an easy way to remember addresses. Without DNS, how many octets for an Internet Protocol (IP) address would have to be memorized? - **4**
- 16) When a client computer sends a request to a Domain Name System (DNS) server, what type of packet is sent? - **SYN/ACK**