

At which two layers of the OSI model does DOCSIS specify requirements? (Choose two.)

Layer 1

Layer 2

Which communication protocol allows the creation of a tunnel through the DSL connection between the customer router and the ISP router to send PPP frames?  
PPPoE

Which broadband solution would best meet the requirements of a customer who has an existing telephone landline, requires moderate downstream bandwidth, but does not want to share with other users?

WiMax

An administrator wants to send log messages for all severity levels from a router to its console. Which procedure should the administrator follow to accomplish this?

The administrator need to do nothing, because Cisco routers send log messages for all severity levels to the console by default

Which technology allows syslog messages to be filtered to different devices based on event importance?

syslog severity levels

Data collected from a NetFlow analyzer can be used for which two purposes? (Choose two.)

accounting and charge back according to resource utilization

measuring what network resources are used and for what purposes

A company is designing a network monitoring system and is considering SNMPv3. What are three characteristics of SNMPv3? (Choose three)

It uses message integrity to ensure that packets have not been altered in transit

It uses authentication to determine if messages are from a valid source

It uses encryption to scramble the content of packets to prevent unauthorized access

Which item will limit the amount of information that can be analyzed by a NetFlow collector?

NetFlow version

Which SNMPv2 configuration step is required?

configuring the community string and access level

Which statement describes a syslog server characteristic?

One advantage of viewing syslog messages on a syslog server is the ability to perform detailed searches through the data

Which mode is used to configure SNMP?

global configuration mode

A network administrator issues the telnet www.cisco.com 25 command on the workstation. What is the purpose of this command?

to probe the server that provides the web service to determine if it is also running an email service

Which number represents the most severe level of syslog logging?

0

A network engineer is investigating an access issue to a web server. The web server can access the Internet and the local clients can open the web pages. However, outside clients cannot access the web pages. What is the most likely cause of the problem?

An ACL is blocking incoming connections

Which command runs several other show commands in order to generate many pages of detailed troubleshooting information?  
show tech-support

Which troubleshooting tool can be used to pinpoint the distance to a break in a network cable?  
cable tester

Which statement describes the physical topology for a LAN?  
It defines how hosts and network devices connect to the LAN

What are two reasons to create a network baseline? (Choose two.)  
to identify future abnormal network behaviour  
to determine if the network can deliver the required policies

A network administrator issues the telnet www.cisco.com 25 command on the workstation. What is the purpose of this command?

Fill in the blank. The ip flowAnswer command enables the router to capture Netflow data for the monitoring of incoming packets on an interface  
ingress

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Which two statement describe a remote access VPN? (Choose two.)  
it is used to connect individual hosts securely to a company network over the Internet  
It may require VPN client software on hosts

Which broadband solution would best meet the requirements of a customer who has an existing telephone landline, requires moderate downstream bandwidth, but does not want to share with others users?  
WiMax

How much total bandwidth is provided by a T1 line?  
1.544 Mb/s

Which three statement are characteristics of generic routing encapsulation (GRE)? (Choose three.)  
GRE encapsulation supports any OSI Layer 3 protocol  
GRE does not have strong security mechanisms  
GRE is stateless

Which type of telecommunication technology is used to provide Internet access to vessels at sea?  
satellite

How many DS0 channels are bonded to produce a 1.544 Mb/s line?  
24

What are two key features of SSL? (Choose two.)  
web-based network access with minimum support costs  
native SSL encryption provides secure web-based network access

Which two functions are provided by the NCP during a PPP connection? (Choose two.)  
bringing the network layer protocol or protocols up and down  
the negotiation of options for the IP protocol

Which two protocol provide authentication services for PPP? (Choose two.)  
PAP  
CHAP

Fill in the blank. IPsec functions at the layer of the OSI model, and protects and authenticates IP packets between IPsec devices  
Network

What is the purpose of a null modem cable?  
to connect between two DTE devices

What method allows VPN traffic to remain confidential?  
encryption

Fill in the blank. The default encapsulation for WAN interfaces is  
HDLC

Which serial 0/0/0 interface state will be shown if no serial cable is attached to the router, but everything else has been correctly configured and turned on?  
Serial 0/0/0 is down, line protocol is down

Which command would be used to troubleshoot serial interface encapsulation?  
debug ppp packet

Fill in the blank. Cable systems use coaxial cables that carry signals across the network  
RF

Which PPP option enables load balancing on PPP-enabled interfaces that connect to a single destination?  
Multilink

A network designer is prototyping a WAN design. When configuring CHAP authentication for PPP, how should the username on each router be configured?  
It should be the same as the remote router hostname

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With which layers of the OSI model do the PPP control protocols interface?  
NCP interfaces with Layer 3; LCP interfaces with Layer 1

Which encryption algorithm is recommended to be used for IPsec encryption?  
AES

Which bit is set by a Frame Relay switch to inform the source station that there is congestion on the network?  
BECN

Which is a requirement of a site-to-site VPN?  
it requires a VPN gateway at each end of the tunnel to encrypt and decrypt traffic

In what situation would it be best to use Frame Relay subinterfaces?  
A. when IPV6 used  
C. any time EIGRP or OSPF is used across the Frame Relay cloud

A router in a Frame Relay network needs to forward a message received from a host. What two methods does the router use to identify the correct VC to forward the message? (Choose two.)/4  
A. The router searches Inverse ARP tables for maps of DLCIs to IP addresses  
C. A table static mappings can be searched

A router in a Frame Relay network needs to forward a message received from a host. What two methods does the router use to identify the correct VC to forward the message?  
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E. The router searches Inverse ARP tables for maps of DLCIs to IP addresses

What is different about using IPv6 with Frame Relay compared to using IPv4? the protocol to obtain the Layer 3 address of the opposite device

What are three mechanisms used by Frame Relay to reduce network overhead caused by congestion? (Choose three.)

DE  
BECN  
FECN

Which three services are critical functions of the IPsec service? (Choose three.)

authentication  
confidentiality  
data integrity

How are Frame Relay virtual circuits identified?

DLCI

What is advantage offered by GRE tunnels?

support for IP multicast tunnelling

A network engineer is using a Cisco ASA as a proxy device to provide remote secure access to a company web server. What technology is being used?

Cisco Secure Mobility Clientless SSL VPN

When not in the office, network administrators in a company are required to establish an IPsec VPN connection to the company before accessing the intranet for network device management. Which Cisco Easy VPN component is needed for the administrators?

Cisco VPN Client

Fill in the blank. AAnswer

is a secure, reliable, cost-effective way to allow remote users, branches, and suppliers to connect to resources on the company network

VPN

Which technology via the syslog protocol enhances real-time debugging by displaying the date and time associated with each monitored event?

syslog service timestamps

An administrator issued the following commands on router R1: "R1(config)# logging 192.168.10.2" and "R1(config)# logging trap 5". What conclusion can be drawn from this configuration?

The only messages that appear on the syslog server are those with severity level of 4 or lower

What are two reasons Frame Relay is most cost-effective than leased lines?

(Choose two.)

uses less equipment  
shares bandwidth across a large customer base

What is an advantage of configuring subinterfaces in a Frame Relay environment?

reduces split horizon issues

What keyword is used in a Frame Relay static map configuration when OSPF is used among various sites of a corporation?

broadcast

How much total bandwidth is provided by a T1 line?

1.544 Mb/s

If Inverse ARP is not available for use, how can a network administrator still

provide a Frame Relay connection to the service provider and forward routing updates?

Use static mapping with the broadcast keyword

Which PPP option enables load balancing on PPP-enabled interfaces that connect to single destination?

Multilink

Which two statements are true about time-division multiplexing (TDM)? )(Choose two.)

Multiple channels can transmit over a single link

Original data streams must be reconstructed at the destination

Fill in the blank. The maximum average data rate a service provider guarantees to a customer is known as the

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