Constructing Small - and Medium - Sized Enterprise Networks

1. 在运行了 RIP 的 MSR 路由器上看到如下路由信息:

A. 该数据包将优先匹配路由表中的 RIP 路由,因为其掩码最短

B. 该数据包将优先匹配路由表中的静态路由,因为其度量值最小

C. 该数据包将优先匹配路由表中的静态路由,因为其掩码最长

D. 该数据包将优先匹配路由表中静态路由,因为其优先级高

Answer(s): C

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2. 客户的两台 MSR30 路由之间通过广域网接口 S0/0 互连,同时运行了 PPP 以及 RIP 协议。出于安全性的考虑,要分别配置 PPP PAP 验证和 RIP 明文验证。那么这两种验证方式的相同点是 _____。

A. 用户名和密码都以明文的形式在网络上传播

B. 都是在网络上传递明文关键字

C. 都是两次握手验证方式

D. 都采用 128bit 密钥长度

Answer(s): B

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3. 下列关于以太网的说法正确的是 _____ 。（多选)

A. 以太网传输距离短,最长传输距离为 500m

B. 以太网是基于共享介质的网络

C. 以太网采用 CSMA/CD 机制

D. 以上说法均不正确

Answer(s): B,C

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4. 客户的网络连接如图所示。

A. fr map ip 2.2.2.1 40 60

B. fr map ip 2.2.2.3 50

C. fr map ip 2.2.2.2 40

D. fr map ip 2.2.2.1 40

Answer(s): B,C

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5. MSR 路由器通过 RIPv2 和外界交换路由信息,在路由表里有 10.1.1.0/24 、 10.1.2.0/24 、 10.1.3.0/24 三条路由,那么该路由器上增加如下 RIP 的配置:

A. 10.1.0.0/16

B. 10.1.2.0/22

C. 10.1.0.0/22

D. 10.0.0.0/8

Answer(s): D

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6. 下列关于 HDLC 的说法,正确的是 ＿＿＿＿＿ 。（多选）

A. HDLC 协议是面向比特的数据链路层协议。

B. HDLC 可以支持 IP 地址协商。

C. HDLC 协议采用统一的帧格式,所以不论是数据报文还是协议报文在 HDLC 链路上都是用标准格式的帧传送的。

D. HDLC 只能运行于异步链路之上。

Answer(s): A,C

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7. IP 地址 133.18.2.110 是 ＿＿＿＿＿＿ 地址。

A. B 类

B. D 类

C. C 类

D. A 类

Answer(s): A

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8. 下列选项中,哪些是基于端口的 802.1x 验证的特点？

A. 当端口下的第一个用户下线后,其他用户也会被拒绝使用网络

B. 当某个用户下线时,只有该用户无法使用网络

C. 只要端口下的第一个用户验证成功后,其他接入用户无须验证就可使用网络资源

D. 端口下的所有接入用户需要单独验证

Answer(s): A,C

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9. SSH 默认使用 TCP 端口号 ＿＿＿＿＿＿ 。

A. 22

B. 20

C. 21

D. 23

Answer(s): A

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10. The command to configure the switch SWA to work in RSTP working mode is _____.

A. [SWA-Ethernet1/0/4] stp mode rstp

B. [SWA]stp mode rstp

C. [SWA] undo stp mode stp

D. [SWA-Ethernet1/0/4] undo stp mode stp

Answer(s): B

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11. After executing the display command on the switch SWA, the switch output is as follows:
From the above output, you can judge _____. (Multiple choice)

A. The host with MAC address 001c-233d-5695 is connected to port GE0/1

B. The above entries are dynamically generated by the switch

C. The above entries are statically configured by the administrator

D. The host with IP address 172.16.0.1 is connected to port GE0/0

Answer(s): B,D

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12. The network environment is shown in the figure. Do the following NAT configuration on router RTA:

A. Protocol GlobalAddr Port InsideAddr Port DestAddr Port-200.76.28.11 --- 100.0.0.2 --- --- --- VPN: 0, status: NOPAT, TTL: 00:04:00, Left: 00: 04:00-200.76.28.12 --- 100.0.0.1 --- --- --- VPN: 0, status: NOPAT, TTL: 00:04:00, Left: 00:03:59 1 200.76.28.12 1024 100.0.0.1 1024 200.76.29.4 1024 VPN: 0, status: NOPAT, TTL: 00:01:00, Left: 00:00:59 1 200.76.28.11 512 100.0.0.2 512 200.76.29.4 512 VPN: 0, status: NOPAT, TTL: 00:01:00, Left: 00:01:00

B. Protocol GlobalAddr Port InsideAddr Port DestAddr Port-200.76.28.11 --- 100.0.0.2 --- --- --- VPN: 0, status: NOPAT, TTL: 00:04:00, Left: 00: 04:00-200.76.28.12 --- 100.0.0.1 --- --- --- VPN: 0, status: NOPAT, TTL: 00:04:00, Left: 00:03:59 1 200.76.28.12 1024 100.0.0.1 1024 200.76.29.4 1024 VPN: 0, status: NOPAT, TTL: 00:01:00, Left: 00:00:59 1 200.76.28.11 511 100.0.0.2 512 200.76.29.4 512 VPN: 0, status: NOPAT, TTL: 00:01:00, Left: 00:01:00

C. Protocol GlobalAddr Port InsideAddr Port DestAddr Port-200.76.28.11 --- 100.0.0.2 --- --- --- VPN: 0, status: NOPAT, TTL: 00:04:00, Left: 00: 04:00-200.76.28.12 --- 100.0.0.1 --- --- --- VPN: 0, status: NOPAT, TTL: 00:04:00, Left: 00:03:59 1 200.76.28.21 1024 100.0.0.1 1024 200.76.29.4 1024 VPN: 0, status: NOPAT, TTL: 00:01:00, Left: 00:00:59 1 200.76.28.11 512 100.0.0.2 512 200.76.29.4 512 VPN: 0, status: NOPAT, TTL: 00:01:00, Left: 00:01:00

D. Protocol GlobalAddr Port InsideAddr Port DestAddr Port-200.76.28.11 --- 100.0.0.2 --- --- --- VPN: 0, status: NOPAT, TTL: 00:04:00, Left: 00: 04:00-200.76.28.12 --- 100.0.0.1 --- --- --- VPN: 0, status: NOPAT, TTL: 00:04:00, Left: 00:03:59 1 200.76.28.12 1023 100.0.0.1 1024 200.76.29.4 1024 VPN: 0, status: NOPAT, TTL: 00:01:00, Left: 00:00:59 1 200.76.28.11 511 100.0.0.2 511 200.76.29.4 512 VPN: 0, status: NOPAT, TTL: 00:01:00, Left: 00:01:00

Answer(s): A

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13. The two MSR routers are connected as shown in the figure.

A. acl number 3000 rule 0 deny ospf rule 5 permit ip

B. acl number 3000 rule 0 deny udp destination-port eq 89 rule 5 permit ip

C. acl number 3000 rule 0 deny ip destination 224.0.0.5 0 eq 89 rule 5 permit ip

D. acl number 3000 rule 0 deny ip destination 224.0.0.5 0 rule 5 permit ip

Answer(s): A,D

14. 客户路由器 MSR-1 通过接口 S0/0 、 S0/1 配置 MP 连接 MSR-2 ,目前 MP 已经正常运行。同时两台路由器之间通过运行 RIP 来完成两台路由器局域网段的路由学习,那么在 MSR-1 上学习到的 RIP 路由的 Metric （度量)值可能是 _____ 。（多选)

A. 1

B. 2M

C. 2

D. 4M

Answer(s): A,C

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15. 某公司的 MSR 路由器的广域网主链路为同异步串口,通过一根 V.35 电缆接入运营商网络；该路由器同时以一个 ISDN BRI 接口做备份链路。

A. 备份线路的带宽可能是 128Kbps

B. 备份线路的带宽可能是 144Kbps

C. 主链路的带宽可能是 1Mbps

D. 备份线路的带宽可能是 64Kbps

Answer(s): A,C,D

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16. 在 MSR 路由器上看到路由表里有如下显示:

A. 这是一条直连路由,度量值为 0

B. 该路由器的下一跳也即对端设备的 IP 地址为 192.168.120.153

C. 在该路由器上 S6/0 的接口 IP 地址为 192.168.120.153

D. 这是一条手工配置的静态路由,度量值为 0

17. IP 地址 132.119.100.200 的子网掩码是 255.255.255.240, 那么它所在子网的广播地址是 _____ 。

A. 132.119.100.207

B. 132.119.100.193

C. 132.119.100.223

D. 132.119.100.255

18. Configure the unconfigured MSR router from the factory through the console port, and the baud rate of the terminal's serial port should be set to _____.

A. 2400

B. 9600

C. 38400

D. 115200

19. If you need to configure the IP address of the Ethernet port on the MSR, you should configure it under _____.

A. User view

B. routing protocol view

C. System view

D. Interface view

Answer(s): D

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20. There is a default route in the router's routing table, its destination network segment and mask are both 0.0.0.0, and its next hop is the router's S0/0 interface, then the following description of this route is correct. _____. (Multiple choice)

A. The metric value of this route may be 3

B. The route has the shortest mask, so the data packet will be forwarded according to the default route only if there is no other route matching the data packet

C. The priority of this route may be 100

D. When the router receives a data packet to the destination address 120.1.1.1, if there is no other exact match in the router table, then the data packet will match this default route

Answer(s): A,B,C,D