11/6/2019 TestOut LabSim Exam Report: 11.4.5 Practice Questions Date: 11/6/2019 9:27:06 am Candidate: Garsteck, Matthew Time Spent: 10:54 Login: mGarsteck **Overall Performance** Your Score: 86% Passing Score: 80% View results by: Objective Analysis Individual Responses **Individual Responses ▼** Question 1: Correct Which of the following are methods for providing centralized authentication, authorization, and accounting for remote access? (Select two.) **√** TACACS+ **EAP** 802.1x AAA PKI RADIUS **Explanation** Both RADIUS and TACACS+ are protocols used for centralized authentication, authorization, and accounting used with remote access. Remote access clients send authentication credentials to remote access servers. Remote access servers are configured as clients to the RADIUS or TACACS+ servers and forward the authentication credentials to the servers. The servers maintain a database of users and policies that control access for multiple remote access servers. AAA stands for authentication, authorization, and accounting, and is a generic term that describes the functions performed by RADIUS/TACACS+ servers. A Public Key Infrastructure (PKI) is a system of certificate authorities that issue certificates. 802.1x is an authentication mechanism for controlling port access. 802.1x uses RADIUS/TACACS+ servers. EAP is an authentication protocol that allows the use of customized authentication methods. References LabSim for Network Pro, Section 11.4. [netpro18v5_all_questions_en.exm NP09 6-4 MCM1] ▼ Question 2: Correct

You have decided to implement a remote access solution that uses multiple remote access servers. You want to implement RADIUS to centralize remote access authentication and authorization.

Which of the following is a required part of your configuration?

		Configure	the remo	te access	servers as	RADIUS	servers
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Obtain	certificates	from a	nublic or	nrivate	PKT.
Obtain	cci tiricates	non a	public of	private	1 1/1.

Configure	remote	access	clients	as	RADIUS	clients.
Cornigure	TCHIOLO	access	CIICIICS	uэ	IVADIO2	Circino.

→ ○ Configure the remote access servers as RADIUS clients.

Explanation

When configuring a RADIUS solution, configure a single server as a RADIUS server. Then configure all remote access servers as RADIUS clients.

Certificate-based authentication can be used with a RADIUS solution, but is not a requirement.

References

LabSim for Network Pro, Section 11.4.
[netpro18v5_all_questions_en.exm NP09 6-4 MCS5]

▼ Question 3: Correct

Which of the following are characteristics of TACACS+? (Select two.)

Allows the possibility of two different servers, one for authentication and authorization
and another for accounting.

			T 00
-	[1/]	Uses	ICF

\Rightarrow	✓ Allows the possibility	of three	different	servers,	one eac	h for	authentic	ation,
	authorization, and a	counting.						

Uses UDP.

Explanation

TACACS+ was originally developed by Cisco for centralized remote access administration. TACACS+:

- Provides three protocols, one each for authentication, authorization, and accounting. This allows each service to be provided by a different server.
- Uses TCP.
- Encrypts the entire packet contents.
- Supports more protocol suites than RADIUS.

RADIUS is used by Microsoft servers for centralized remote access administration. RADIUS:

- Combines authentication and authorization using policies to grant access.
- Uses UDP.
- Encrypts only the password.
- Often uses vendor-specific extensions. RADIUS solutions from different vendors might not be compatible.

References

LabSim for Network Pro, Section 11.4. [netpro18v5_all_questions_en.exm NP09 6-4 MCM3]

▼ Question 4: Correct

Which of the following are differences between RADIUS and TACACS+?

\Rightarrow	 RADIUS combines authentication and authorization into a single function; 	TACACS+
	allows these services to be split between different servers.	

F	RADIUS encrypt	s the entire	packet	contents;	TACACS+	only	encrypts	the	password.
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	RADIUS	supports	more	protocols	than	TACACS+
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()	KADIUS	uses	TCP;	TALALS+	uses	UIJP.

Explanation

TACACS+ provides three protocols, one each for authentication, authorization, and accounting. This allows each service to be provided by a different server. In addition, TACACS+:

- Uses TCP.
- Encrypts the entire packet contents.
- Supports more protocol suites than RADIUS.

References

LabSim for Network Pro, Section 11.4. [netpro18v5_all_questions_en.exm NP09 6-4 MCS6]

▼ Question 5: Correct

Which of the following protocols can be use	ed to centralize	remote access	authentication?
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()	SFSAM	11 —
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Kerberos

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Explanation

Centralized remote access authentication protocols include:

- Remote Authentication and Dial-In User Service (RADIUS)
- Terminal Access Controller Access Control System (TACACS)

Password authentication protocol (PAP) and challenge handshake authentication protocol (CHAP) are authentication protocols used between the client and the server. Kerberos and Secure European System for Applications in a Multi-Vendor Environment (SESAME) are single sign-on protocols.

References

LabSim for Network Pro, Section 11.4.
[netpro18v5 all questions en.exm SSCP-3 NEW [218]]

\mathbf{v}	Question	6:	Correc	t
*	Question	υ.	COLLEC	

RADIUS is primarily used for what purpose?

Managing	RAID fa	ault-t	olerant	drive o	config	uration	s.
Managing	access	to a	networ	k over	a VPN	ı .	

Controlling	entry	gate	access	using	proximity	sensors.



Explanation

RADIUS (Remote Authentication Dial-In User Service) is primarily used for authenticating remote clients before access to the network is granted. RADIUS is based on RFC 2865. RADIUS maintains client profiles in a centralized database. RADIUS offloads the authentication burden for dial-in users from the normal authentication of local network clients. For environments with a large number of dial-in clients, RADIUS benefits include improved security, easier administration, improved logging, and less performance impact on LAN security systems.

References

LabSim for Network Pro, Section 11.4. [netpro18v5_all_questions_en.exm SSCP-3 SP [865]]

▼ Question 7: Corre	ect
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Which of the following is a characteristic of TACACS+?

- Supports only TCP/IP.
- Requires that authentication and authorization are combined in a single server.
- Uses UDP ports 1812 and 1813.
- Encrypts the entire packet, not just authentication packets.

Explanation

TACACS+ was originally developed by Cisco for centralized remote access administration. TACACS+:

- Provides three protocols, one each for authentication, authorization, and accounting. This allows each service to be provided by a different server.
- Uses TCP port 49.
- Encrypts the entire packet contents, not just authentication packets.
- Supports more protocol suites than RADIUS.

RADIUS is used by Microsoft servers for centralized remote access administration. RADIUS:

- Combines authentication and authorization using policies to grant access.
- Allows for the separation of accounting to different servers. However, authentication and authorization remain combined on a single server.
- Uses UDP ports 1812 and 1813.
- Uses a challenge/response method for authentication. RADIUS encrypts only the password using MD5.

References

LabSim for Network Pro, Section 11.4. [netpro18v5 all questions en.exm SP08 3-7 1]

▼ Question 8:

Correct

Which of the following ports are used with TACACS?

- 22
- **49**
 - 50 and 51
 - 1812 and 1813
 - 3389

Explanation

Terminal Access Controller Access-Control System (TACACS) uses TCP and UDP ports 49.

Port 22 is used by Secure Shell (SSH). Ports 50 and 51 are used by IPsec. Ports 1812 and 1813 are used by Remote Authentication Dial-in User Service (RADIUS). Port 3389 is used by Remote Desktop Protocol (RDP).

References

LabSim for Network Pro, Section 11.4.

[netpro18v5_all_questions_en.exm SP08_3-7 5]

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2019	TestOut LabSim
Question 9: You are configuring your	<u>Correct</u> computer to dial up to the internet. What protocol should you use?
○ SMTP	
→	
○ VPN	
O PPTP	
Explanation	
PPP, or point-to-point pro	otocol, lets you dial up and connect to the internet.
References	
LabSim for Network Pro, [netpro18v5_all_question	Section 11.4. ns_en.exm NP05_2-16 #48]
Question 10:	<u>Incorrect</u>
Which of the following pure user authentication?	rotocols or services is commonly used on cable internet connections for
→ ○ PPPoE	
DDD	
○ PPP	
RRAS	
Explanation	
connections for user auth	col over Ethernet (PPPoE) is commonly used on cable internet nentication. Like its dial-up counterpart, the point-to-point protocol at users provide authentication information before a connection is
systems to provide remo authentication services o purpose. The point-to-po on dial-up remote access	Access Service (RRAS) is a software program used on Windows te connectivity capabilities to users. Although it could be used for in a cable internet access system, it is not commonly used for this pint protocol (PPP) is a user authentication system commonly deployed a connections. Remote Desktop Protocol (RDP) is the protocol used by the applications, including Remote Desktop.
References	
LabSim for Network Pro, [netpro18v5_all_question	Section 11.4. ns_en.exm NP05_2-16 #76]
Question 11:	<u>Correct</u>
	for internet access using a local provider that gives you a fiber optic line ere, Ethernet and wireless connections are used to create a small ne.
Which of the following praccounting for the intern	rotocols would be used to provide authentication, authorization, and et connection?
○ RDP	
◯ L2TP	
○ PPP	



Explanation

PPP over Ethernet (PPPoE) is used for connections that have an always on state, such as DSL or fiber optic running Ethernet. PPPoE is a modification of PPP that allows for negotiation of additional parameters that are typically not present on a regular Ethernet network. ISPs typically implement PPPoE to control and monitor internet access over broadband links.

The point-to-point protocol (PPP) is used for dial-up connections. RDP and ICA are Remote Desktop protocols. L2TP is a VPN protocol.

References

LabSim for Network Pro, Section 11.4. [netpro18v5_all_questions_en.exm NP09_6-3 #MCS6]

▼ Question 12: <u>Incorrect</u>

You want to set up a service that allows multiple users to dial in to the office server from modems on their home computers. What service should you implement?

→	RAS
	RIP
	ISDN
	<u>bbb</u>

Explanation

RAS stands for Remote Access Service, which enables users to dial in to a server from remote locations. ISDN is a digital communications network that uses existing phone lines. PPP is a remote access protocol. You will likely configure your RAS server to accept PPP connections. RIP stands for routing information protocol and allows routers to share information.

References

LabSim for Network Pro, Section 11.4. [netpro18v5_all_questions_en.exm NP05_2-16 #32]

▼ Question 13: Correct

You often travel away from the office. While traveling, you would like to use a modem on your laptop computer to connect directly to a server in your office and access files on that server that you need.

You want the connection to be as secure as possible. Which type of connection will you need?

Intranet	
Remote access	
O Virtual private network	
Internet	

Explanation

Use a remote access connection to connect directly to a server at a remote location.

You could use a VPN connection through the internet to connect to the server security. However, the connection would involve connecting to the internet through a local ISP, then

establishing a VPN connection to the server. While the VPN connection through the internet is an internal network that only internal users can access. Secure as a direct remote connection to the server.

References

LabSim for Network Pro, Section 11.4. [netpro18v5_all_questions_en.exm NP05_2-16 #144]

▼ Question 14: <u>Correct</u>

Which type of device is required to implement port authentication through a switch?

Layer 3 switch

RADIUS server

Proxy server

Router

Explanation

Port authentication is provided by the 802.1x protocol and allows only authenticated devices to connect to the LAN through the switch. 802.1x requires a RADIUS server (also called an AAA server) to validate the authentication credentials.

A router or a Layer 3 switch are required to enable communication between VLANs. A proxy server controls access based on URL or other upper-layer information.

References

LabSim for Network Pro, Section 11.4.
[netpro18v5_all_questions_en.exm NP09_3-3 #14]