

Module 10 – Performance and Reliability

This module covers tools that are used to collect and monitor network data for performance and reliability. The Reliability and Performance Monitor provides network performance statistics. Event Viewer is used to monitor event logs. Network Monitor is used to gather information about network traffic. SNMP is used to manage network-attached devices.

Section 10.1: Reliability and Performance Monitor

Summary

This section examines using Reliability and Performance Monitor. Details include:

- Windows Reliability and Performance Monitor combines the functionality of the following components:
 - Resource Monitor
 - Reliability Monitor
 - Performance Monitor
 - Data Collector Sets
- Using the Reliability and Performance Monitor





Students will learn how to:

- View system real-time statistical displays.
- Add specific object counters to Performance Monitor for local or remote machines.
- Use the System Stability Chart to see historical system information.
- Configure and run Data Collector Sets for system baselines and to preserve performance statistics.

Configuring Server 2008 Network Infrastructure Objectives

- 502. Capture performance data.
 - Data Collector Sets
 - Performance Monitor
 - Reliability Monitor
 - Monitoring System Stability Index
 - Analyze performance data

Video/Demo

	Time
<input type="checkbox"/>  10.1.1 Reliability and Performance Monitor	4:15
<input type="checkbox"/>  10.1.2 Using Performance Monitor	6:23
<input type="checkbox"/>  10.1.3 Using Data Collector Sets	13:41
<input type="checkbox"/>  10.1.4 Using Resource Monitor	<u>3:27</u>
<i>Total</i>	<i>27:46</i>

□ **Number of Exam Questions: 13 questions**

Total Time: About 45 minutes

Section 10.2: Event Viewer

Summary

This section discusses how to access and manage event logs through Event Viewer. Details include:

- The role of Event Viewer
- Common event logs include:
 - Application
 - Security
 - System
 - Setup
 - ForwardedEvents
- Features available with event logs:
 - Log size
 - Save events
 - Filter events
 - Custom views
 - Attach a task
 - Event Log Online Help
- The role of event subscriptions
- Services used by event subscriptions:
 - Windows Remote Management (WinRM)
 - Windows Event Collector (Wecevc)
- Subscription types:
 - Collector initiated
 - Source computer initiated
- Delivery optimization options:
 - Normal
 - Minimize bandwidth
 - Minimize latency
 - Custom
- Configuring event subscriptions

Students will learn how to:




- View events to gather information, such as Event ID, Log Name, User, and Computer.
- Create event filters and custom log views.
- Search and save logs.
- Attach tasks to events or to logs.
- Configure subscriptions to pull events from remote machines.

Configuring Server 2008 Network Infrastructure Objectives

- 503. Monitor event logs.
 - Custom views
 - Application and services logs
 - Subscriptions
 - Attaching tasks to events to find and filter

Video/Demo

Time

<input type="checkbox"/>  10.2.1 Event Viewer	5:15
<input type="checkbox"/>  10.2.2 Using Event Logs	10:21
<input type="checkbox"/>  10.2.4 Configuring Event Subscriptions	<u>5:30</u>
<i>Total</i>	<i>21:06</i>

Number of Exam Questions: 12 questions

Total Time: About 40 minutes

Section 10.3: Network Monitor

Summary

This section discusses the basics of using Network Monitor to monitor network traffic. Details include:

- The role of Network Monitor
- Using Network Monitor
 - Promiscuous mode
 - Filters
 - Display filter
 - Capture filter
 - Aliases
 - Conversations
 - Parsers



Students will learn how to:

- Configure Network Monitor to capture packets.
- Configure and remove capture and display filters.
- Configure conversations to group data by type.
- Save captured files for troubleshooting and analysis.

Configuring Server 2008 Network Infrastructure Objectives

- 504. Gather network data.
 - Network Monitor

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Video/Demo	Time
<input type="checkbox"/>  10.3.1 Network Monitor	3:17
<input type="checkbox"/>  10.3.2 Using Network Monitor	<u>8:53</u>
<i>Total</i>	12:10

Number of Exam Questions: 5 questions

Total Time: About 20 minutes

Section 10.4: SNMP

Summary

This section discusses using Simple Network Management Protocol (SNMP) to manage network-attached devices. Details include:



- Components that make up an SNMP system:
 - Managed devices
 - SNMP agent
 - SNMP manager
 - Network Management Station (NMS)
 - Management Information Base (MIB)
- Methods that communication can occur between agents and managers:
 - Polling
 - Traps
- Definition of a *community name*
- Facts about using SNMP

Students will learn how to:

- Add SNMP Agent support to workstations and servers.
- Configure the SNMP Agent service properties.

Configuring Server 2008 Network Infrastructure Objectives

- 504. Gather network data.
 - Simple Network Management Protocol (SNMP)

Video/Demo	Time
<input type="checkbox"/>  10.4.1 SNMP	5:12
<input type="checkbox"/>  10.4.2 Configuring SNMP	<u>5:48</u>
<i>Total</i>	11:00

Number of Exam Questions: 3 questions

Total Time: About 20 minutes