

# Lab Exercise: Managing Windows Services and Testing Dependencies

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## Objective:

By the end of this lab, you will be able to manage Windows services, test service dependencies, configure service recovery options, and apply security considerations using different methods such as the Services Manager, Task Manager, and Command Line.

## Section 1: Accessing the Services Manager

1. Task 1: Open the Services window using the following methods:

- - Method 1: services.msc
- Method 2: Windows Search (Search > Type "Services")
- Method 3: Command Prompt (cmd > services.msc)
- Method 4: File Explorer (C:\Windows\System32 > services.msc)

## Questions:

1. Which method do you find the most efficient for accessing services? Why?

## Section 2: Managing Services

1. Task 1: In the Services Manager window, choose any service (e.g., Windows Audio).

- - Right-click on the service and perform the following actions:
  - Start the service (if stopped).
  - Stop the service.
  - Pause and resume the service.

## Questions:

1. What happens when you try to stop a critical system service (e.g., Windows Audio)?

2. What options are available under the "Startup type" in the service properties? Briefly explain each option:

- Automatic
- Automatic (Delayed Start)
- Manual
- Disabled

2. Task 2: Use Task Manager to manage a service:

- - Open Task Manager (Ctrl + Shift + Esc).
  - Go to the Services tab.
  - Right-click on the same service you chose in Task 1 and stop it.

### Section 3: Command Line Service Management

1. Task 1: Open Command Prompt as Administrator.

- - Use the following commands to manage services:
  - Start a service: net start <service name>
  - Stop a service: net stop <service name>
- Example:
  - Start Windows Audio service: net start Audiosrv
  - Stop Windows Audio service: net stop Audiosrv

#### Questions:

1. What is the advantage of using the Command Line to manage services compared to using the GUI (Services Manager/Task Manager)?
2. How would you check the status of a specific service using the Command Line?

### Section 4: Testing Service Dependencies

1. Task 1: In the Services Manager window, right-click on a service (e.g., Windows Audio) and open Properties.

- - Go to the Dependencies tab and note the services that the selected service depends on.
2. Task 2: Stop one of the dependent services, e.g., stop Windows Audio Endpoint Builder.
- - Now, attempt to start the main service (Windows Audio) and observe what happens.
- 3. Task 3: Start the dependent service and try starting the main service again.

#### Questions:

1. What did you observe when attempting to start a service without its dependencies running?
2. Why is it important to ensure dependencies are active when troubleshooting service issues?
3. How can stopping dependent services lead to service malfunctions in a system?

### Section 5: Configuring Service Recovery Options

1. Task 1: In the Services Manager window, right-click on a service and open Properties.

- - Go to the Recovery tab and configure the service to Restart on the first failure.

### Questions:

1. What recovery option would you configure for a critical service?
2. How does configuring recovery options help maintain system stability?

## Section 6: Security Considerations

1. Task 1: Choose a high-privileged service and research its function online.

- - Document if it is safe to disable the service. Create a system restore point before modifying.

### Questions:

1. Why is it important to create a system restore point before modifying services?
2. What could be the security risks of disabling critical system services?

### Lab Completion:

Ensure that you have started any essential services that were stopped during the exercise.