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Mohammed Abu-Hadhoud

MSA, PMOC, PMP®, PMP®, PMP-REP®, CS, ITIL®, MCPD, MCD



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هذا الملف للمراجعة السريعة واخذ الملاحظات عليه فقط ،لانه يحتوي على اقل من 20٪ مما يتم شرحه في الفيديوهات الاستعجال والاعتماد عليه فقط سوف يجعلك تخسر كميه معلومات وخبرات كثيره

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Mohammed Abu-Hadhoud



# Why to Use Windows Services?



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***WINDOWS  
SERVICES***

***Dr. Mohammed Abu-Hadhoud***  
DBA, MBA, PMOC, PgMP®, PMP®, PMI-RMP®, CM, ITILF, MCPD, MCSD





# Why to use Windows Services?

## Long-Running Applications:

Windows Services are designed to run indefinitely, starting automatically with the system or when triggered by specific conditions.

- **Example:** A database service that needs to stay active to respond to queries at any time.
- **Benefit:** Ensures consistent availability without requiring user intervention.

# Why to use Windows Services?

## Automatic Startup:

Windows Services can be configured to start automatically when the operating system boots, even before a user logs in.

- **Example:** Windows Defender Antivirus starts at boot to ensure the system is protected.
- **Benefit:** Critical services are always ready and do not depend on user actions.

# Why to use Windows Services?

## Background Processing:

Services operate in the background and do not require a graphical user interface (GUI).

- **Example:** Print Spooler manages print jobs in the background without interfering with the user's workflow.
- **Benefit:** Frees up resources and avoids user disruption.

# Why to use Windows Services?

## Minimal User Interaction:

Windows Services typically run without requiring user interaction, making them ideal for tasks that must run silently or on servers.

- **Example:** Task Scheduler executes maintenance scripts at specified times.
- **Benefit:** Provides a "set it and forget it" approach to recurring tasks.

# Why to use Windows Services?

## High Availability:

Services are designed to be reliable and can automatically restart after a crash or failure.

- **Example:** SQL Server can be configured to restart automatically if it stops unexpectedly.
- **Benefit:** Ensures system stability and reduces downtime.



# Why to use Windows Services?

## Multi-User Environments:

Windows Services can function independently of the logged-in user, making them ideal for multi-user or server environments.

- **Example:** DHCP Client provides network configuration for all users on a machine.
- **Benefit:** Supports shared and enterprise-wide tasks seamlessly.

# Why to use Windows Services?

## Scheduling and Trigger-Based Execution:

Windows Services can be configured to run at specific times or in response to specific triggers.

- **Example:** A backup service starts at midnight daily.
- **Benefit:** Automates tasks based on predefined schedules or system events.

# Why to use Windows Services?

## Security:

Windows Services can run under specific accounts (e.g., LocalSystem, NetworkService) to isolate privileges and reduce security risks.

- **Example:** Remote Desktop Services runs with restricted permissions for secure remote access.
- **Benefit:** Enhances security by limiting the impact of potential vulnerabilities.

# Why to use Windows Services?

## System Integration:

Windows Services can integrate tightly with the Windows operating system and other services, enabling complex workflows.

- **Example:** IIS integrates with multiple services to provide a seamless web hosting environment.
- **Benefit:** Allows the creation of robust, multi-layered solutions.

# Why to use Windows Services?

## Centralized Management:

Windows Services can be managed centrally using tools like `services.msc`, PowerShell, or the Command Prompt.

- **Example:** Administrators can start, stop, or restart services remotely via PowerShell.
- **Benefit:** Simplifies monitoring and administration.

# Why to use Windows Services?

## Common Use Cases:

1. **Security:** Antivirus, firewalls, and authentication services.
2. **Networking:** DHCP, DNS, and VPN services.
3. **Data Management:** Database servers and file synchronization services.
4. **Automation:** Task schedulers and logging services.
5. **Enterprise Applications:** Services for Active Directory and Exchange Server.



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Thank You

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