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File Integrity Monitoring in Microsoft Defender for Cloud

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File Integrity Monitoring (FIM) examines operating system files, Windows registries, application software, and Linux system files for changes that might indicate an attack.

Defender for Cloud recommends entities to monitor with FIM, and you can also define your own FIM policies or entities to monitor. FIM informs you about suspicious activity such as:

- File and registry key creation or removal
- File modifications (changes in file size, access control lists, and hash of the content)
- Registry modifications (changes in size, access control lists, type, and content)

Many regulatory compliance standards require implementing FIM controls, such as PCI-DSS and ISO 17799.

Which files should I monitor?

When choosing which files to monitor, consider the files that are critical for your system and applications. Monitor files that you don't expect to change without planning. If you choose files that are frequently changed by applications or operating system (such as log files and text files) it will create noise, making it difficult to identify an attack.

Defender for Cloud provides the following list of recommended items to monitor based on known attack patterns:

ⓘ Note

This table applies to [File Integrity Monitoring using Microsoft Defender for Endpoint](#). For the recommended items to monitor in FIM over Log Analytics, see [Recommended items to monitor](#).

⌵ Expand table

- › Common questions (FAQ)
- › Defender for Containers
- › Database protection
- › Defender for App Service
- › Defender for Storage
- › Defender for Key Vault
- › Defender for Resource Manager
- › Defender for DNS
- › DevOps security

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Linux Files	Windows files	Windows registry keys
/bin	C:\config.sys	SOFTWARE\Microsoft\Windows NT\CurrentVersion\Winlogon\Shell
/bin/passwd	C:\Windows\regedit.exe	SOFTWARE\WOW6432\Windows NT\CurrentVersion\Winlogon\Shell
/boot	C:\Windows\System32\userinit.exe	HKLM\SOFTWARE\Microsoft\Windows NT\CurrentVersion\Winlogon\Shell
/etc/*.conf	C:\Windows\explorer.exe	HKLM\SOFTWARE\Microsoft\Windows NT\CurrentVersion\Winlogon\Shell
/etc/cron.daily	C:\autoexec.bat	HKLM\SOFTWARE\Microsoft\Windows NT\CurrentVersion\Winlogon\Shell Folders
/etc/cron.hourly	C:\boot.ini	HKLM\SOFTWARE\Microsoft\Windows NT\CurrentVersion\Winlogon\Shell
/etc/cron.monthly	C:\Windows\system.ini	HKLM\SOFTWARE\Microsoft\Windows NT\CurrentVersion\Winlogon\Shell
/etc/cron.weekly	C:\Windows\win.ini	SOFTWARE\Microsoft\Windows NT\CurrentVersion\Winlogon\Shell
/etc/crontab		SOFTWARE\WOW6432\Windows NT\CurrentVersion\Winlogon\Shell
/etc/init.d		SOFTWARE\WOW6432\Windows NT\CurrentVersion\Winlogon\Shell Folders
/opt/sbin		SOFTWARE\WOW6432\Windows NT\CurrentVersion\Winlogon\Shell Folders
/sbin		SOFTWARE\WOW6432\Windows NT\CurrentVersion\Winlogon\Shell
/usr/bin		SOFTWARE\WOW6432\Windows NT\CurrentVersion\Winlogon\Shell
/usr/local/bin		SECURITY\POLICY\SECURITY\Audit\Audit Objects\Winlogon
/usr/local/sbin		
/usr/sbin		
/bin/login		
/opt/bin		

Next steps

In this article, you learned about File Integrity Monitoring (FIM) in Defender for Cloud.

Next, you can:

- [Enable File Integrity Monitoring using Microsoft Defender for Endpoint](#)

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Module


[Implement change tracking and file integrity monitoring for Windows IaaS VMs - Training](#)

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

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
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
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