

BitLocker recovery in Microsoft environments using Ivanti Endpoint M...

Solution: Sensors - Windows OS Platforms Cloud Security Modules (CSPM & CWP)

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Objective

· BitLocker recovery in Microsoft environments using Ivanti Endpoint Manager

Applies To

- · Supported versions of the Falcons sensor for Windows
- Supported versions of Microsoft Windows
- Ivanti Endpoint Manager
- May be related to <u>Tech Alert | Windows crashes related to Falcon Sensor | 2024-07-19 (/s/article/Tech-Alert-Windowscrashes-related-to-Falcon-Sensor-2024-07-19)</u>

Procedure

- 1. Retrieve BitLocker Recovery Keys Use Ivanti Endpoint Manager to retrieve BitLocker recovery keys:
 - a. Open the Ivanti Endpoint Manager console
 - b. Navigate to Security and Compliance > BitLocker.
 - c. Select the specific device and view the recovery key.
- 2. Develop a PowerShell Script Create a script that handles the following tasks:
 - a. Booting into Safe Mode
 - b. Changing the registry key
 - c. Rebooting into Normal Mode
 - d. Ensure you have the BitLocker recovery key

3. Prepare the PowerShell Script – Create a PowerShell script that performs these actions:

```
# Retrieve the BitLocker recovery key
$bitLockerKey = Get-BitLockerVolume | Select-Object -ExpandProperty KeyProtector | Where-Object {
$_.KeyProtectorType -eq 'RecoveryPassword' } | Select-Object -ExpandProperty RecoveryPassword
# Set the registry key
Set-ItemProperty -Path 'HKLM:\System\CurrentControlSet\Services\<YourService>' -Name '<YourKey>' -Value
'<NewValue>'
# Restart into Safe Mode
bcdedit /set {current} safeboot minimal
Restart-Computer -Force
# (In Safe Mode) Change the file and the registry key
# Restart back into Normal Mode
bcdedit /deletevalue {current} safeboot
Restart-Computer -Force
4. Deploy the Script Using Ivanti Endpoint Manager
```

a. Create a Software Distribution Package:

- i. In the Ivanti Endpoint Manager console, go to Software Distribution > Packages.
- ii. Create a new package and add the PowerShell script.

b. Distribute the Package:

- i. Right-click the package and select Distribute.
- ii. Choose the target devices and distribute the package.
- c. Deploy the Package Schedule the deployment to run on the target devices.

5. Monitor and Validate

- a. Monitor the deployment process through the Ivanti console.
- b. Validate that the machines boot correctly into normal mode after the script runs.

Additional Information

- Ivanti Compliance Settings: Use Ivanti Compliance Settings to monitor and ensure BitLocker compliance.
- · Windows Admin Center: Use Windows Admin Center for easier management and monitoring of your devices.
- · Backup: Ensure you have backups of important data before making changes to registry and system files.

See Also

- <u>BitLocker recovery in Microsoft Azure (/s/article/ka16T000001tlmZQAQ)</u>
- BitLocker recovery in Microsoft environments using SCCM (/s/article/ka16T000001tlmeQAA).
- BitLocker recovery in Microsoft environments using Active Directory and GPOs (/s/article/ka16T000001tlmjQAA)
- <u>BitLocker recovery in Microsoft environments using ManageEngine Desktop Central (/s/article/ka16T000001tln8QAA)</u>
- BitLocker recovery in Microsoft environments using IBM BigFix (/s/article/ka16T000001tlnSQAQ)

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