

BitLocker recovery in Microsoft environments using Ivanti Endpoint Manager

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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-Windows-crashes-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
```



Procedure

- 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
- » CrowdStrike Support Portal Link: https://supportportal.crowdstrike.com/s/article/ka16T000001tlmtQAA