

Storing the BitLocker volume keys using a Custom Field

Use a FileWave Custom Field to store the volume keys for your BitLocker volumes. This can be helpful if you don't have another way to escrow the volume keys. The Custom Field outlined in this article will get the volume key for every volume so if there is an encrypted C: and D: you would see both reported by this field.

Adding the Custom Field

1. Download the following Custom Field export: [BitLocker Key Custom Field.customfields](#)
2. Import the downloaded file into "FileWave Admin>Assistants>Custom Fields>Edit Custom Fields>Import".
3. Save changes within Custom Fields dialog.
4. Associate Custom Field with desired Windows devices via "right-click>Edit Custom Field(s) Associations".
 1. A Windows-based Smart Group is very helpful to quickly associate Custom Field
 2. Smart Group criteria: "Client OS Platform [equals] Windows"

The screenshot shows the 'Custom Fields' dialog in FileWave Admin. On the left, a list of custom fields is shown, with 'BitLocker Key' selected. The 'Field Details' pane on the right shows the configuration for 'BitLocker Key'. The 'Name' is 'BitLocker Key' and the 'Internal Name' is 'bitlocker_key'. The 'Description' is empty. The 'Provided By' is 'Client Script'. The 'Assigned to all devices' checkbox is checked. The 'Data Type' is 'String'. The 'Restrict allowed values' checkbox is unchecked, and the 'Use a default value' checkbox is checked. The 'Pending...' field is empty. The 'Client Script' section shows a PowerShell script that reads the BitLocker recovery password from the environment variables. The script type is 'PowerShell' and the execution environment is 'Windows'.

Display Name	Internal Name
BitLocker Key	bitlocker_key
Client Config Booster Routing	client_config_booster_routing
Client Config Booster1	client_config_booster1
Client Config Booster2	client_config_booster2
Client Config Booster3	client_config_booster3
Client Config Booster4	client_config_booster4
Client Config Booster5	client_config_booster5
Client Config Debug Level	client_config_debug_level
Client Config Hashed Password	client_config_hashed_password
Client Config Server Address	client_config_server_address
Client Config Tickle Interval	client_config_tickle_interval
Display Model	display_model
Max Battery Capacity	max_battery_capacity
Missing OS Update Count	missing_os_update_count
PowerShell x64	powershell_x64

Field Details

Name
BitLocker Key

Internal Name
Using internal name the field can be referenced in other parts of FileWave
bitlocker_key

Description

Provided By
Defines how the field value shall be populated
Client Script

☒ Assigned to all devices

Values

Data Type
String

☐ Restrict allowed values
☒ Use a default value

Pending...

Client Script
This script will be run on the client side on verification. The output of the script will be captured and will serve as the value for the field. The default value will be assigned until the script is executed. If the script fails during client association, the default value will be used.

macOS | Windows

Script type: PowerShell

Execution Environment...

```
# FileWave client will execute this script. The output will be used as the value of the custom field.
#
# Below is an example of how to read the value of one ENVIRONMENT VARIABLE in your script:

# $my_var = $Env:ENV_VAR_NAME
#
# Identify all the Bitlocker volumes.
$BitlockerVolumers = Get-BitLockerVolume

# For each volume, get the RecoveryPassowrd and display it.
$BitlockerVolumers |
  ForEach-Object {
    $MountPoint = $_.MountPoint
    $RecoveryKey = [string](($_.KeyProtector).RecoveryPassword
    if ($RecoveryKey.Length -gt 5) {
      Write-Output ("{$MountPoint,$RecoveryKey}")
    }
  }
}
```

Here is the script from the Custom Field:

```
# FileWave client will execute this script. The output will be used as the value of the custom field.
#
# Below is an example of how to read the value of one ENVIRONMENT VARIABLE in your script:

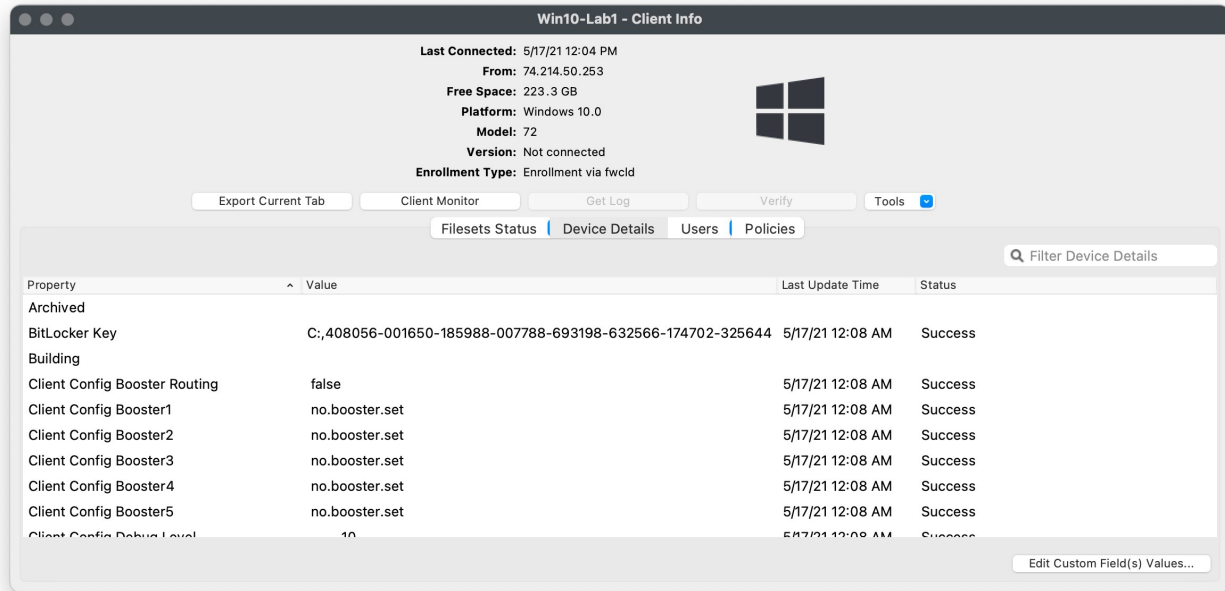
# $my_var = $Env:ENV_VAR_NAME
#
# Identify all the Bitlocker volumes.
$BitlockerVolumers = Get-BitLockerVolume

# For each volume, get the RecoveryPassowrd and display it.
$BitlockerVolumers |
  ForEach-Object {
    $MountPoint = $_.MountPoint
    $RecoveryKey = [string](($_.KeyProtector).RecoveryPassword
    if ($RecoveryKey.Length -gt 5) {
      Write-Output ("{$MountPoint,$RecoveryKey}")
    }
  }
}
```

Assigning the Custom Field to devices

1. Save changes within Custom Fields dialog.
2. Associate Custom Field with desired Windows devices via "right-click>Edit Custom Field(s) Associations".
 - A Windows-based Smart Group is very helpful to quickly associate Custom Field
 - Smart Group criteria: "Client OS Platform [equals] Windows"
3. Alternatively you could assign the field to all devices since only Windows devices will run the script.

Results



Related articles

- [Securing FileWave Server on the Internet for Remote Device Management](#)

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