

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 FileWave Custom Fields configuration window. On the left, a list of custom fields is displayed, with 'BitLocker Key' selected. The right pane shows the configuration for this field. The 'Name' is 'BitLocker Key' and the 'Internal Name' is 'bitlocker_key'. The 'Description' is empty. It is 'Provided By' 'Client Script' and is 'Assigned to all devices'. The 'Data Type' is 'String'. The 'Client Script' is a PowerShell script that reads the BitLocker recovery password for all volumes and outputs them.

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:

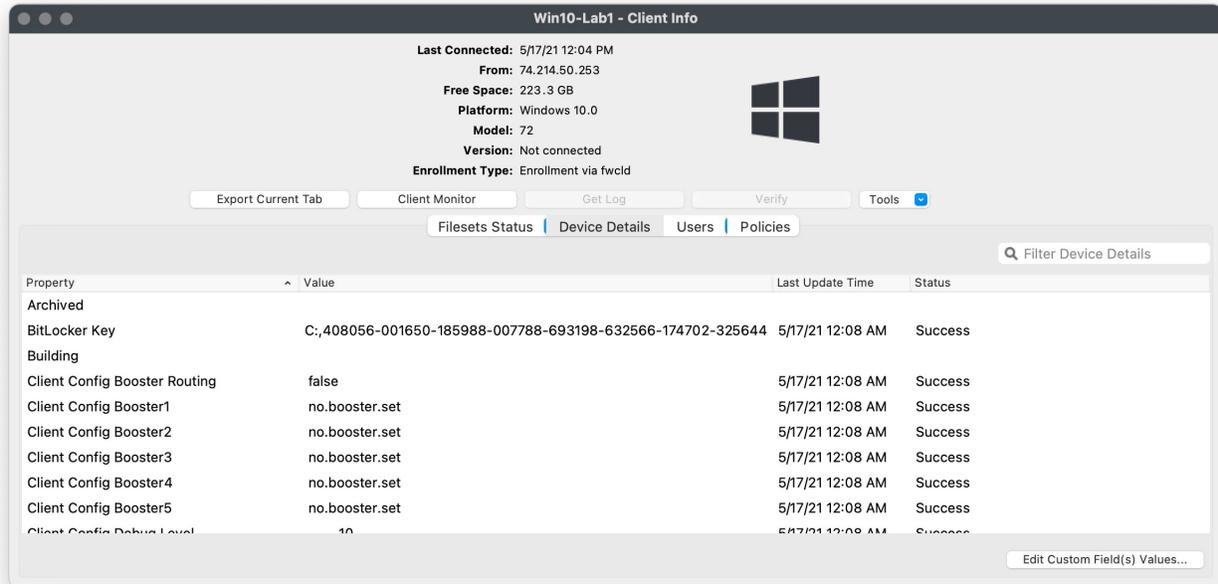
# $my_var = $Env:ENV_VAR_NAME
#
# Identify all the Bitlocker volumes.
$BitlockerVolumers = Get-BitLockerVolume

# 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



The screenshot shows the 'Win10-Lab1 - Client Info' window. At the top, it displays connection and system information: 'Last Connected: 5/17/21 12:04 PM', 'From: 74.214.50.253', 'Free Space: 223.3 GB', 'Platform: Windows 10.0', 'Model: 72', and 'Version: Not connected'. The 'Enrollment Type' is 'Enrollment via fwclid'. Below this is a navigation bar with buttons for 'Export Current Tab', 'Client Monitor', 'Get Log', 'Verify', and 'Tools'. A secondary navigation bar includes 'Filesets Status', 'Device Details' (selected), 'Users', and 'Policies'. A search bar 'Filter Device Details' is on the right. The main area is a table with columns 'Property', 'Value', 'Last Update Time', and 'Status'. The table lists various properties and their values, all with a 'Success' status and a 'Last Update Time' of '5/17/21 12:08 AM'. A button 'Edit Custom Field(s) Values...' is located at the bottom right of the table.

Property	Value	Last Update Time	Status
Archived			
BitLocker Key	C:,408056-001650-185988-007788-693198-632566-174702-325644	5/17/21 12:08 AM	Success
Building			
Client Config Booster Routing	false	5/17/21 12:08 AM	Success
Client Config Booster1	no.booster.set	5/17/21 12:08 AM	Success
Client Config Booster2	no.booster.set	5/17/21 12:08 AM	Success
Client Config Booster3	no.booster.set	5/17/21 12:08 AM	Success
Client Config Booster4	no.booster.set	5/17/21 12:08 AM	Success
Client Config Booster5	no.booster.set	5/17/21 12:08 AM	Success
Client Config Debug Level	10	5/17/21 12:08 AM	Success

Related articles

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

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