Determine NFVIS-for-UC Install Volume

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Introduction

This document describes the steps required to determine which volume NFVIS-for-UC is currently installed on.

Problem

Need to determine which volume NFVIS-for-UC is currently installed on.

Solution

Step 1. Run a RedFish API query against the CIMC of the host to identify how many virtual drives exists via **https://<CIMC IP Address>/redfish/v1/Systems/<CIMC Serial Number>/Storage/MRAID/Volumes**

Example Output


```
{
  "@odata.id": "/redfish/v1/Systems/SERIALNUMBER/Storage/MRAID/Volumes",
  "@odata.type": "#VolumeCollection.VolumeCollection",
  "@odata.context": "/redfish/v1/$metadata#VolumeCollection.VolumeCollection",
  "Description": "Collection of Volumes for this system",
  "Name": "Volume Collection",
  "Members@odata.count": 4,
  "Members": [
    {
      "@odata.id": "/redfish/v1/Systems/SERIALNUMBER/Storage/MRAID/Volumes/0"
    },
    {
      "@odata.id": "/redfish/v1/Systems/SERIALNUMBER/Storage/MRAID/Volumes/1"
    },
    {
      "@odata.id": "/redfish/v1/Systems/SERIALNUMBER/Storage/MRAID/Volumes/2"
    },
    {
```

```
      "@odata.id": "/redfish/v1/Systems/SERIALNUMBER/Storage/MRAID/Volumes/3"
    }
  ]
}
```


Step 2. Query the API for each volume, where Number is the number of the volume seen in Step 1 output. **https://<CIMC IP Address>/redfish/v1/Systems/<CIMC Serial Number>/Storage/MRAID/Volumes/Number**

Example output from VD-0


```
... Obmitted Output ...
  "Id": "0",
  "Name": "NA",
  "Encrypted": false,
  "CapacityBytes": 1494996746240,
  "BlockSizeBytes": 512,
  "OptimumIOSizeBytes": 131072,
  "Identifiers": [
    {
      "DurableNameFormat": "UUID",
      "DurableName": "60027e370b077b003179502a9dc8b57a"
    }
  ],
  "Status": {
    "Health": "OK",
    "State": "Enabled"
  },
  "Actions": {
    "#Volume.Initialize": {
      "target": "/redfish/v1/Systems/SERIALNUMBER/Storage/MRAID/Volumes/0/Actions/Volume.Initialize",
      "InitializeType@Redfish.AllowableValues": [
        "Fast",
        "Slow"
      ]
    },
    "#Volume.CheckConsistency": {
      "target": "/redfish/v1/Systems/SERIALNUMBER/Storage/MRAID/Volumes/0/Actions/Volume.CheckConsisten
    },
    "Oem": {
      "#Cisco.StartReconstruction": {
        "target": "/redfish/v1/Systems/SERIALNUMBER/Storage/MRAID/Volumes/0/Actions/Oem/Cisco.StartReco
        "@odata.type": "#CiscoUCSExtensions.v1_0_0.StartReconstruction",
        "ReconstructionOp@Redfish.AllowableValues": [
          "add",
          "remove",
          "none"
        ]
      }
    }
  },
  "RAIDType": "RAID5",
  "Oem": {
    "Cisco": {
      "VolumeAccessPolicy": "ReadWrite",
      "RequestedWriteCachePolicy": "WriteBack",
      "ConfiguredWriteCachePolicy": "WriteBack",
```

```
      "VolumeDriveCachePolicy": "NoChange",
      "VolumeReadAheadPolicy": "ReadAhead",
      "VolumeIoPolicy": "DirectIo",
      "VolumeState": "Optimal",
      "AvailableSizeMiBytes": 0,
      "Bootable": true,
      "FullDiskEncryptionCapable": false
    }
  }
}
```

Step 3. From the output capture, the DurableName value for each which is the UUID.

```
"Identifiers": [
    {
      "DurableNameFormat": "UUID",
      "DurableName": "60027e370b077b003179502a9dc8b57a"  <<- This is the UUID you copy
    }
```

Step 4. SSH or console connection to the NFVIS-for-UC and execute **support show list-units | include** Volume-UUID.

Step 5. The Volume that NFVIS-for-UC is installed on contains the device along with device partitions.

Example output of Volume that has NFVIS-for-UC OS installed.

```
BE7KH2-NFVIS# support show list-units | include 60027e370b077b003179502a9dc8b57a
  dev-disk-by\x2did-scsi\x2d360027e370b077b003179502a9dc8b57a.device                loaded    active   |
  dev-disk-by\x2did-scsi\x2d360027e370b077b003179502a9dc8b57a\x2dpart1.device       loaded    active   |
  dev-disk-by\x2did-scsi\x2d360027e370b077b003179502a9dc8b57a\x2dpart2.device       loaded    active   |
  dev-disk-by\x2did-scsi\x2d360027e370b077b003179502a9dc8b57a\x2dpart3.device       loaded    active   |
  dev-disk-by\x2did-wwn\x2d0x60027e370b077b003179502a9dc8b57a.device                loaded    active   |
  dev-disk-by\x2did-wwn\x2d0x60027e370b077b003179502a9dc8b57a\x2dpart1.device       loaded    active   |
  dev-disk-by\x2did-wwn\x2d0x60027e370b077b003179502a9dc8b57a\x2dpart2.device       loaded    active   |
  dev-disk-by\x2did-wwn\x2d0x60027e370b077b003179502a9dc8b57a\x2dpart3.device       loaded    active   |
```

Example of output of Volume that is not NFVIS-for-UC OS Install.

```
BE7KH2-NFVIS# support show list-units | include 60027e370b077b0031790987dc596ab8
dev-disk-by\x2did-scsi\x2d360027e370b077b0031790987dc596ab8.device                loaded    active   pl
dev-disk-by\x2did-wwn\x2d0x60027e370b077b0031790987dc596ab8.device                loaded    active   pl
```