Obtaining Capabilities of a Hyper-V Host

https://campus.barracuda.com/doc/96772144/

This API can be used for manual validation purposes when a user wishes to choose a Hyper-V host for restoring the selected volumes on specific host.

Alternately, one can use the Host Capabilities Validation API.

The volumes selected for restore belong to a specified OS firmware type. The selected host must be compatible with the original backed up host.

The role of this API is to allow a user to find out if the selected revisions and host are compatible, before actually performing the restore operation.

Note: the selected volume's hardware configuration can be obtained via the "Obtaining a revision's hardware configuration" call.

This section includes the following topics:

- Input Parameters
- Output Parameters

Input Parameters

The following table provides the parameters and descriptions.

Parameter	Description
id	Integer. Numeric host id, id of the host, either obtained when it was registered the first time, or via the Get registered hosts API call.
sessionId	String. Containing a GUID, obtained via a call to API Hyper-V Create Host Browsing Session.

Example

{

```
"id": 2,

 "sessionId": "5d05495f-39e5-4e4e-ad0c-e351cc2c78f3"

}
```

Output Parameters

The following table provides the parameters and descriptions.

Parameter	Description

Parameter	Description
supportsVmGenerations	Boolean. <table><tr><td>If …</td><td>Then…</td></tr><tr><td>false</td><td>it is either a 2008 R2 or 2012 Hyper-V host so certain validations are necessary, in the form below: UEFI cannot be used, Message: "When restoring to a 2008 R2 or 2012 server you cannot select UEFI firmware."</td></tr><tr><td>supportsVhdxFormat is also false</td><td>this is actually a 2008 R2 hypervisor).</td></tr><tr><td>the OS version of the restored revision is Windows 10 or Windows 2016 Server</td><td>"Restoring to a Windows Server 2008 R2 host is not supported on VMs running Windows 10 or Windows Server 2016 with the latest updates installed."</td></tr><tr><td>selected boot volumes size is greater than 2 TB</td><td>the revision cannot be selected for restore. Message: "Cannot restore an EFI boot volume to Hyper-V 2008, 2008 R2, or 2012."</td></tr><tr><td>selected boot volume is greater than 2 TB, supportsVhdxFormat is true (which means that the selected host is Windows 2012, by exclusion, since supportsVmGenerations = false which excludes Windows 2008 R2)</td><td>that host is incompatible with the selected volumes. Message: "Windows Server 2012 does not support boot volumes over 2TB in size. Please select another destination host to continue." when true if supportsVhdxFormat is false</td></tr><tr><td>selected volume size is greater than 2 TB</td><td>host cannot be selected for restore. Message: "Due to a limitation of the VHD file type, volumes greater than 2040 GB can only be restored on 2012/R2 host."</td></tr></table>
supportsVmDynamicMemory	Boolean. Denotes whether dynamic memory allocation is supported. Parameter is not currently used.
supportsVhdxFormat	Boolean. Use this result during the restore to restrict usage of VHD format in case the host doesn't support VHDX. Also, use in conjunction with supportsVmGenerations.

Error Codes

ErrorCode.HostNotInCatalog - if the provided id integer from Input section does not point to a valid Hyper-V server (the correct ids can be obtained via get list of hosts).

Example POST

POST /v2/accounts/test_acc/computers/0000/restore/hyperv/host/capabilities

Input Parameters

```
{

    "id": 1,

    "sessionId": "string"

}
```

Output parameters

Response status: 200 Accepted (for online operation)

Response body:

```
{

  "data": {
```

```
  "supportsVmGenerations":true,

  "supportsVmDynamicMemory":true,


     "supportsVhdxFormat":true

 }

 }
```

Output Parameters

Response status: 200 Accepted (for online operation).

Example Response

```
{

  "data": {

    "supportsVmGenerations":true,

    "supportsVmDynamicMemory":true,


       "supportsVhdxFormat":true

  }

 }
```