

Microsoft Hyper-V
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Requirements:

In order to collect data from Microsoft Hyper-V hosts, the environment needs to fulfill the following requirements:

- The Collect SolutionPack Block must be installed in a server using Windows Server 2008 R2 Service Pack 1 or newer;
- The Collect SolutionPack Block must be able to query WMI objects in remote Microsoft Hyper-V hosts. For more information, refer to “**Setting up monitoring user rights**” section;
- The Collect SolutionPack Block machine must allow the execution of unsigned PowerShell scripts. In order to do it, you must run the following command as an administrative user:
`PowerShell -C Set-ExecutionPolicy Unrestricted`

Setting up monitoring user rights:

Normally, it's possible to collect data from Hyper-V hosts specifying a local or domain administrator account. However, there are issues in some specific versions of Microsoft Windows Server and Microsoft Hyper-V Server:

- On **Microsoft Windows Server 2008 R2** and **Microsoft Windows Server 2012** Hyper-V hosts, the domain administrative user must be member of domain group *Domain Admins*. In other words, is not enough to make a domain user member of local group *Administrators* in Hyper-V hosts;
- On **Microsoft Windows Server 2008 R2** and **Microsoft Windows Server 2012** Hyper-V hosts, the WMI queries can be performed only using the build-in *Administrator* local user. Any other local administrative local user will be unable to perform the queries because the UAC controls;
- On **Microsoft Hyper-V Server 2012** and **Microsoft Windows Server 2012** Hyper-V hosts, is possible to collect data using a non-administrative local or domain user. This user must be member of local groups *Hyper-V Administrators* and *Performance Log Users* groups. Unfortunately, this will not be possible in Microsoft Hyper-V Server 2008 R2 and Microsoft Windows Server 2008 R2.

The SolutionPack for Microsoft Hyper-V provides a script that can be used to check if it is possible to query all required WMI objects using the provided user. It can be found in `<APG_FOLDER>/Collecting/XML-Collector/<SolutionPack_instance_name>/conf/` folder. It must be executed from Collect SolutionPack Block machine and its syntax follows:

```
TestWMI.ps1 -Computer <ip_or_hostname> -Username <domain_or_machine\username>  
-Password <password> [-NoPing]
```

- Computer: The remote Hyper-V host IP address or hostname
- Username: The user used to perform remote WMI queries, in the format
DOMAIN\username for domain users or **MACHINE\username** for local users
- Password: The password of the user specified using the parameter **-Username**
- NoPing: (optional) If the remote Hyper-V host is blocking ping requests, this parameter must be used to skip connectivity tests

For more information about enabling access to WMI queries, please refer to Microsoft Windows Server documentation and support.