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## Emc solutions enabler compatibility matrix

24.06.2020 Contributors Download a PDF from this page Cloud Insights finds EMC VMAX and PowerMax storage arrays using symcli Solutions Enabler commands in conjunction with an existing Solutions Enabler server in your environment. The existing Solutions Enabler server connects to the VMAX/PowerMax storage array by accessing gatekeeper volumes. Before you set up this data collector, make sure that Cloud Insights has TCP connectivity to port 2707 on an existing Solutions Enabler server. Cloud Insights discovers all Symmetrix arrays that are local to this server, as you can see in the output symcfg list from this server. The EMC Solutions Enabler (CLI) program with the SMI-S provider application must be installed on the acquisition unit server, and the version must be compatible or earlier than the version running on the Solutions Enabler Server. A properly configured {install\_dir}\EMC\SYMCLI\config\cnfg file is required. This file defines the service names for Solutions Enabler servers as well as the access method (SECURE / NOSECURE / ANY). If you need read/write latency at the storage node level, the SMI-S provider must communicate with the running UNISPHERE application instance for VMAX. Solutions Enabler (SE) Server Administrator Management IP Address Read Only and Password for SE Solutions Enabler Server 6.5X Requirements: MI-S 3.3.1 Provider for SMIS-S V1.2 Installed After Installation Run \Program Files\ EMC\SYMCLI\bin\stordaeomon start storsrvd Unisphere application for VMAX must be running and collect statistics for the EMC VMAX and PowerMax sstorage arrays that are managed by the SMI-S Provider access validation installation: Verify that the whether the SMI-S provider is running: telnet &lt;se\_server> 5988 Cloud Insights obtains the following inventory information from the EMC VMAX/PowerMax data source. For each acquired fixed asset type, the most common terminology used for that asset is displayed. When viewing or troubleshooting this data collector, be aware of the following terminology: Term Provider/Model Cloud Processing Term Period Disk Group Disk Array Storage Array Storage Director Storage Node Pool, SRP (SRP) Storage Volume Memory TDev Volume Device Storage Pool: These are just common terminology mappings and may not represent any case for this data collector. Note: If SMI-S user authentication is not enabled, the default values in Cloud Insights data collectors are ignored. Service Name Description Field Service Name specified in netcnfg Full Path to command PROMPT Full path to the folder containing the IP address of the Symmetrix CLI SMI-S host IP address interval between inventory surveys. The default is 40 minutes. Select Exclude or Include to specify a list Specify whether you want to include or exclude &lt;se\_server> &lt;/se\_server> below when collecting data. List of devices separated by the inventory filter The list of comma-separated device IDs to include or exclude connection caching Select the connection caching method: \* LOCAL means that Cloud Insights Acquisition is running on a Solution Handler server that is connected to Fibre Channel applications with the Symmetrix arrays you want to discover and has access to gatekeeper volumes. This may be seen in some remote ingestion unit (RAU) configurations. \* REMOTE\_CACHED is the default and should be used in most cases. This uses netcnfg file settings to connect using IP to the Solutions Enabler server, which must be connected to the Fibre Channel with the Symmetrix arrays you want to discover and have access to Gatekeeper volumes. \* If the REMOTE\_CACHED commands fail, use REMOTE. Please note that this will slow down the acquisition process (possibly up to hours or even days in extreme cases). NETCNFG file settings are still used to connect IP to the Solutions Enabler server, which has Fibre Channel connectivity to detected Symmetrix arrays. Note: This setting does not change the behavior of Cloud Insights for arrays listed as remote by the symcfg list output. Cloud Insights collects data only on devices that are displayed as LOCAL using this command. The SMI-S protocol used to connect to the SMI-S provider. It also displays the default port used. Replace the SMIS port if it is empty, use the default port in the Connection Type box. otherwise, enter the connection port to use the SMI-S user name for the SMI-S Provider SMI-S User Name user name user name for the interval(s) interval between performance surveys (default 1000 seconds) to specify the Specify whether to include or exclude the following list of arrays when collecting performance data Performance filter A list of device IDs separated by commas to include or exclude some things to try in case of problems with this data collector: Issue: Error: The requested feature is not currently licensed to install the SYMAPI server license. Error: No devices found Make sure that the Symmetrix devices are configured to be management by the Solution Support Program server: - Run the symcfg -v list to see a list of configured Symmetrix devices. Error: The requested network service was not found in the Services file To make sure that the Solutions Enabler service name is defined in the netcnfg file for Solutions Enabler. This file is usually located under SYMAPI\config\ in the installation Solutions Enabler. Error: Remote Client/Server Handshake Failed Check the latest storsrvd.log\* files on the Solution Handler host that we are trying to find. Error: Common name in client certificate incorrect Editing hosts file on Solution Handler server so that acquisition the host name is recognized as the IP address reported in storsrvd.log on the Solution Handler server. Error: The function cannot obtain memory Make sure that there is enough free memory on the system to perform the Enable Solutions error: Solutions Enabler cannot handle all required data. Investigate health status and load profile of solution enabler Error: • The symcfg list -tdev CLI command may return invalid data when collected using Solutions Enabler 7.x from the 8.x Solution Support Program server. • The symcfg list -srp CLI command may return invalid data when collected using Solutions Enabler 8.1.0 or earlier

from a Solutions Enabler server 8.3 or later. Make sure that you are using the same major version of the Solutions Enabler For Infrastructure Management Server (IMS) to discover the Symmetrix EMC storage array, make sure that the physical connections and settings of the storage network device are configured correctly. The physical connection requirements are as follows: A Fibre Channel connection between each Symmetrix and a SAN fabric. The device configuration requirements are as follows: Configure the array for discovery using the Symmetrix EMC Command-Line Interface (SYMCLI). SymCLI must be configured on the discovery host. Install the EMC Solutions Enabler (SYMCLI) on the discovery host. IMS can also use the EMC Symmetrix Remote Data Facility (SRDF). Veritas Resiliency platform supports SYMCLI 7.x technology to find ims of EMC Symmetrix storage enclosures. For complete information about supported hardware and software, see the Hardware and Software Compatibility List (HSCL). Ims discovers all Symmetrix storage arrays in the Fibre Channel or SCSI band to the discovery host on which SYMCLI is installed. Ims also supports the discovery of the Symmetrix EMC storage array through remote SYMAPI servers. This discovery method does not require array-to-host connectivity to the discovery host specified in the array configuration. However, the host running the SYMAPI server must have connectivity in the Symmetrix band. To ims discover Symmetrix EMC arrays by using a remote SYMAPI server, you must specify a remote SYMAPI server when you configure the enclosure in IMS. See Configure a remote SYMAPI server to discover the Symmetrix EMC array. See Check the configuration of a remote SYMAPI server. Configuring a remote SYMAPI server to discover the Symmetrix EMC Infrastructure Management Server (IMS) array supports Symmetrix EMC discovery by using the SYMAPI remote server mechanism. This discovery method does not communication of the array in the band with the host from which the EMC Symmetrix array was detected. To ims discover Symmetrix EMC arrays by using a remote SYMAPI server, you must configure the SYMAPI server. To configure a remote SYMAPI server in your environment, environment, you must perform two tasks: To ensure that the remote daemon of the SYMAPI server is running on the server on which EMC Solutions Enabler is installed, logs on with administrative credentials to the host that you want to use as a remote SYMAPI server and that has connectivity in the EMC Symmetrix band. Type the following command in the host list:stordaemon An example of a list of daemons appears. Available daemons (\*[\*]: Currently running): [\*] storapid EMC Solutions Enabler Base Daemon storgnsd EMC Solutions Enabler GNS Daemeon storrdfd EMC Solutions Enabler RDF Daemon storevntd EMC Solutions Enabler Event Daemon [\*] storwatchd EMC Solutions Enabler Watchdog Daemon storsrmd EMC Solutions Enabler SRM Demon storstpd EMC Solutions Enabler STP Daemon storsrvd EMC Solutions Enabler STP Daemon storsrvd EMC Solutions Enabler SYMAPI Server Daemon [\*] storsrvdInst &gt;&gt;&gt; Running Instance of storsrvd &lt;&lt;&lt;&lt; The name of the remote daemon of the SYMAPI server is storsrvd. If you see [\*] for storsrvd, it means that the remote daemon of the SYMAPI server is already running on the host. If the daemon is running, proceed to the next procedure. To ensure that the EMC Solutions Enabler can communicate with the remote SYMAPI server, type the following commands to run storsrvd daemon:stordaemon start storsrvd Waiting for the daemon to run. This may take a few seconds. stordaemon list You will see an example of a list of daemons. Available daemons (\*[\*]: Currently running): [\*] storapid EMC Solutions Enabler Base Daemon storgnsd EMC Solutions Enabler GNS Daemeon storrdfd EMC Solutions Enabler RDF Daemon storevntd EMC Solutions Enabler Event Daemon [\*] storwatchd EM C Solutions Enabler Watchdog Daemon storsrmd EMC Solutions Enabler SRM Demon storstpd EMC Solutions Enabler STP Daemon [\*] storsrvd EMC Solutions Enabler SYMAPI Server Daemon Follow steps 1 and 2 on each host where you want to configure a remote SYMAPI server. To ensure that EMC Solutions Enabler can communicate with a remote SYMAPI server, install the EMC Solutions Enabler on the discovery host. Navigate to the SYMAPI configuration directory. By default, the directory is Linux - /var/symapi/config Windows - %PROGRAMFILES%\EMC\SYMAPI\config Modify the netcng file in the SYMAPI configuration directory of the host on which the EMC Solutions Enabler is installed. Attach the entry of configured SYMAPI servers to the end of the file. The following is an example of adding entries for two SYMAPI servers:#SYMAPI\_SERVER - TCP/IP node001 WWW.XXX.YYY.ZZZ 2707 - DC1\_SERVER - TCP/IP ctrlhost\_1 10.200.15.1 155 2707 - DC2\_SERVER - TCP/IP ctrlhost\_2 10.249.100.155 2707 - Check the configuration of the remote SYMAPI server Before you meet the device configuration requirements, check the configuration of the SYMAPI server. Set environment variables to verify that the SYMAPI server is configured correctly. To remote SYMAPI Open Open server configuration console and log on to the host as root (Linux) or as an administrator-level user (Windows). Make sure that the SYMCLI commands are in PATH. Do one of the following: On Linux, run the following SYMCLI commands to set the server environment variables: SYMCLI\_CONNECT\_TYPE=REMOTE; SYMCLI\_CONNECT\_TYPE SYMCLI\_CONNECT=DC1\_SERVER; export SYMCLI\_CONNECT symcfg list in Windows, run the following SYMCLI commands to set server environment variables: set SYMCLI\_CONNECT\_TYPE=REMOTE set SYMCLI\_CONNECT=DC1\_SERVER symcfg list Make sure that arrays on different remote SYMAPI server hosts are detected correctly. If an error occurs at the output (instead of a list of Symmetrix arrays), verify that EMC Solutions Enabler is configured correctly. If it is not configured correctly, refer to the EMC Solutions Enabler installation guide for commands. The installation guide provides detailed instructions on how to configure the SYMAPI server and related commands. To leave the environment variables, type the following commands:unset SYMCLI\_CONNECT\_TYPE unset SYMCLI\_CONNECT SYMCLI\_CONNECT

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