RSA NetWitness Logs

Event Source Log Configuration Guide

EMC Symmetrix Solutions Enabler

Last Modified: Friday, April 21, 2017

Event Source Product Information:

Vendor: EMC
Event Source: Symmetrix Solutions Enabler
Versions: Solutions Enabler 6.4, 6.5.3, 7.0, 7.1, 7.3.0.1, 7.6.1
Platforms: Symmetrix DMX, Symmetrix VMAX, Microsoft Windows 2000, 2003, and 2008, Solaris 9 and 10
Additional Downloads: sftpagent.conf.symmetrix

RSA Product Information:

Supported On: NetWitness Suite 10.0 and later
Event Source Log Parser: symmetrix
Collection Method: Syslog, File
Event Source Class.Subclass: Storage.Storage

Depending upon your environment, configure EMC Symmetrix to send messages via Syslog or File. To configure EMC Symmetrix Solutions Enabler, you must complete one of the following tasks:

- Configure Syslog
    1. Configure RSA NetWitness Suite for Syslog Collection
    2. Configure EMC Symmetrix Solutions Enabler for Syslog
    3. Configure EMC Symmetrix Solutions Enabler in your OS
    4. Issue Commands in the Event Daemon
- Configure File collection
    1. Configure EMC Symmetrix Solutions Enabler for File Collection
    2. Configure EMC Symmetrix Solutions Enabler in your OS
    3. Issue Commands in the Event Daemon
    4. Set Up SFTP and Configure NetWitness Log Collector

Configure RSA NetWitness Suite for Syslog Collection

Ensure the Required Parser is Enabled

If you do not see your parser in the list while performing this procedure, you need to download it in RSA NetWitness Suite Live.

Ensure that the parser for your event source is enabled:

1. In the **NetWitness** menu, select **Administration** > **Services**.
2. In the Services grid, select a Log Decoder, and from the Actions menu, choose **View** > **Config**.
3. In the Service Parsers Configuration panel, search for your event source, and ensure that the **Config Value** field for your event source is selected.

Note: The required parser is **symmetrix**.

Configure Syslog Collection

> **Note:** You only need to configure Syslog collection the first time that you set up an event source that uses Syslog to send its output to NetWitness.

You should configure either the Log Decoder or the Remote Log Collector for Syslog. You do not need to configure both.

To configure the Log Decoder for Syslog collection:

1. In the **NetWitness** menu, select **Administration** > **Services**.
2. In the Services grid, select a Log Decoder, and from the Actions menu, choose **View** > **System**.
3. Depending on the icon you see, do one of the following:
   - If you see ▶ Start Capture , click the icon to start capturing Syslog.
   - If you see ■ Stop Capture , you do not need to do anything; this Log Decoder is already capturing Syslog.

To configure the Remote Log Collector for Syslog collection:

1. In the **NetWitness** menu, select **Administration** > **Services**.
2. In the Services grid, select a Remote Log Collector, and from the Actions menu, choose **View** > **Config** > **Event Sources**.
3. Select **Syslog/Config** from the drop-down menu.

   The Event Categories panel displays the Syslog event sources that are configured, if any.
4. In the Event Categories panel toolbar, click +.

   The Available Event Source Types dialog is displayed.
5. Select either **syslog-tcp** or **syslog-udp**. You can set up either or both, depending on the needs of your organization.
6. Select the new type in the Event Categories panel and click + in the Sources panel toolbar.

   The Add Source dialog is displayed.
7. Enter **514** for the port, and select **Enabled**. Optionally, configure any of the Advanced

parameters as necessary.

Click **OK** to accept your changes and close the dialog box.

Once you configure one or both syslog types, the Log Decoder or Remote Log Collector collects those types of messages from all available event sources. So, you can continue to add Syslog event sources to your system without needing to do any further configuration in NetWitness.

Configure EMC Symmetrix Solutions Enabler for Syslog

To configure the EMC Symmetrix Solutions Enabler for syslog:

1. Log on to the Solutions Enabler with administrator credentials.
2. Open the **daemon_options** file. The location of the file depends on your operating system:
   - On Solaris, **/var/symapi/config/daemon_options**.
   - On Windows, **C:\Program Files\emc\symapi\config\daemon_options**.
3. To configure the syslog event target in the **daemon_options** file, type the following:

   ```
   storevntd:log_event_syslog_host = NW-IP-address
   storevntd:log_event_syslog_port = 514
   ```

   where ***NW-IP-address*** is the IP address of the RSA NetWitness Log Decoder or Remote Log Collector.
4. To configure the Event Daemon to collect Audit Records and log them within the **daemon_options** file, type the following:

   ```
   storevntd: log_event_targets = syslog
   storevntd: log_symmetrix_events = tgt=syslog, sid=Symmetrix-id,
   audit
   ```

   If there are multiple Symmetrix arrays:

   ```
   storevntd: log_event_targets = syslog

   storevntd: log_symmetrix_events = tgt=syslog, sid=Symmetrix-id,
   audit; \

         tgt=syslog, sid= Symmetrix-id, audit; \
         tgt=syslog, sid= Symmetrix-id, audit
   ```

5. Save and close the file.

Configure EMC Symmetrix Solutions Enabler in your OS

Configure Syslog for EMC Symmetrix Solutions Enabler on the appropriate OS.

Configure EMC Symmetrix Solutions Enabler in Solaris

To configure EMC Symmetrix Solutions Enabler in Solaris, issue the following commands from the Solutions Enabler Command Line Interface (CLI):

1. To determine if User Authorization is enabled for a Symm, and to see the current role assignments in effect for it, type the following:

   ```
   symauth -sid Symmetrix-id list
   symauth -sid Symmetrix-id list -users
   ```

2. To allow ‘storevntd’ from any host, type the following:

   ```
   symauth -sid Symmetrix-id commit <<!
   assign user storevntd to role Auditor;
   !
   ```

3. To allow ‘storevntd’ from only a specific host, type the following:

   ```
   symauth -sid Symmetrix-id commit <<!
   assign user H:jupiter\storevntd to role Auditor
   !
   ```

Configure EMC Symmetrix Solutions Enabler in Windows

To configure EMC Symmetrix Solutions Enabler in Windows, issue the following commands from the Solutions Enabler Command Line Interface (CLI):

1. To tell if User Authorization is enabled for a Symm and see the current role assignments in effect for it, type the following:

   ```
   symauth -sid Symmetrix-id list
   symauth -sid Symmetrix-id list -users
   ```

2. To allow 'storevntd' from any host:

   a. Enter the following command into a new text file:

      ```
      assign user storevntd to role Auditor;
      ```

b. From the Solutions Enabler CLI, type the following:

```
symauth –sid Symmetrix-id commit -file <newfilename>
```

where <*newfilename*> is the name of the new file.

3. To allow 'storevntd' from only a specific host:

a. Enter the following command into a new text file:

```
assign user H:jupiter\storevntd to role Auditor
```

b. From the Solutions Enabler CLI, type the following:

```
symauth –sid Symmetrix-id commit -file <newfilename>
```

Issue Commands in the Event Daemon

To issue commands in the Event Daemon, start the Event Daemon from the Solutions Enabler CLI and enter the following:

- To determine whether the Event Daemon is running and query its current state, type the following:

```
stordaemon list
stordaemon show storevntd
```

- To start the Event Daemon automatically when the OS starts, type the following:

```
stordaemon install storevntd -autostart
```

- To start the Event Daemon, type the following:

```
stordaemon start storevntd
```

- To restart the Event Daemon, type the following:

```
stordaemon restart storevntd
```

Note: If you are performing an upgrade, you must restart the Event Daemon to confirm any changes.

Configure EMC Symmetrix Solutions Enabler for File Collection

To configure the EMC Symmetrix Solutions Enabler for file reader:

1. Log on to the Solutions Enabler with administrator credentials.
2. Open the **daemon_options** file. The location of the file depends on your operating system:
   - On Solaris, **/var/symapi/config/daemon_options**.
   - On Windows, **C:\Program Files\emc\symapi\config\daemon_options**.
3. To configure the syslog event target in the **daemon_options** file, type the following:

   ```
   storevntd:log_event_syslog_host = NW-IP-address
   storevntd:log_event_syslog_port = 514
   ```

   where ***NW-IP-address*** is the IP address of the RSA NetWitness Log Decoder or Remote Log Collector.
4. To configure the Event Daemon to collect Audit Records and log them within the **daemon_options** file, type the following:

   ```
   storevntd: log_event_targets = file
   storevntd: log_symmetrix_events = tgt=file, sid=Symmetrix-id,
   audit
   ```

   If there are multiple Symmetrix arrays:

   ```
   storevntd: log_event_targets = file

   storevntd: log_symmetrix_events = tgt=file, sid=Symmetrix-id,
   audit; \

         tgt=file, sid= Symmetrix-id, audit; \
         tgt=file, sid= Symmetrix-id, audit
   ```
5. Save and close the file.

Configure EMC Symmetrix Solutions Enabler in your OS

Configure File Collection for EMC Symmetrix Solutions Enabler on the appropriate OS.

Configure EMC Symmetrix Solutions Enabler in Solaris

To configure EMC Symmetrix Solutions Enabler in Solaris, issue the following commands from the Solutions Enabler Command Line Interface (CLI):

1. To determine if User Authorization is enabled for a Symm, and to see the current role assignments in effect for it, type the following:

   ```
   symauth -sid Symmetrix-id list
   symauth -sid Symmetrix-id list -users
   ```

2. To allow ‘storevntd’ from any host, type the following:

   ```
   symauth -sid Symmetrix-id commit <<!
   assign user storevntd to role Auditor;
   !
   ```

3. To allow ‘storevntd’ from only a specific host, type the following:

   ```
   symauth -sid Symmetrix-id commit <<!
   assign user H:jupiter\storevntd to role Auditor
   !
   ```

Configure EMC Symmetrix Solutions Enabler in Windows

To configure EMC Symmetrix Solutions Enabler in Windows, issue the following commands from the Solutions Enabler Command Line Interface (CLI):

1. To tell if User Authorization is enabled for a Symm and see the current role assignments in effect for it, type the following:

   ```
   symauth -sid Symmetrix-id list
   symauth -sid Symmetrix-id list -users
   ```

2. To allow 'storevntd' from any host:

   a. Enter the following command into a new text file:

      ```
      assign user storevntd to role Auditor;
      ```

b. From the Solutions Enabler CLI, type the following:

```
symauth –sid Symmetrix-id commit -file <newfilename>
```

where <*newfilename*> is the name of the new file.

3. To allow 'storevntd' from only a specific host:

a. Enter the following command into a new text file:

```
assign user H:jupiter\storevntd to role Auditor
```

b. From the Solutions Enabler CLI, type the following:

```
symauth –sid Symmetrix-id commit -file <newfilename>
```

Set Up SFTP and Configure NetWitness Log Collector

Set Up the SFTP Agent

To set up the SFTP Agent Collector, download the appropriate PDF from RSA Link:

- To set up the SFTP agent on Windows, see Install and Update SFTP Agent
- To set up the SFTP agent on Linux, see Configure SA SFTP Agent shell script

Configure the Log Collector for File Collection

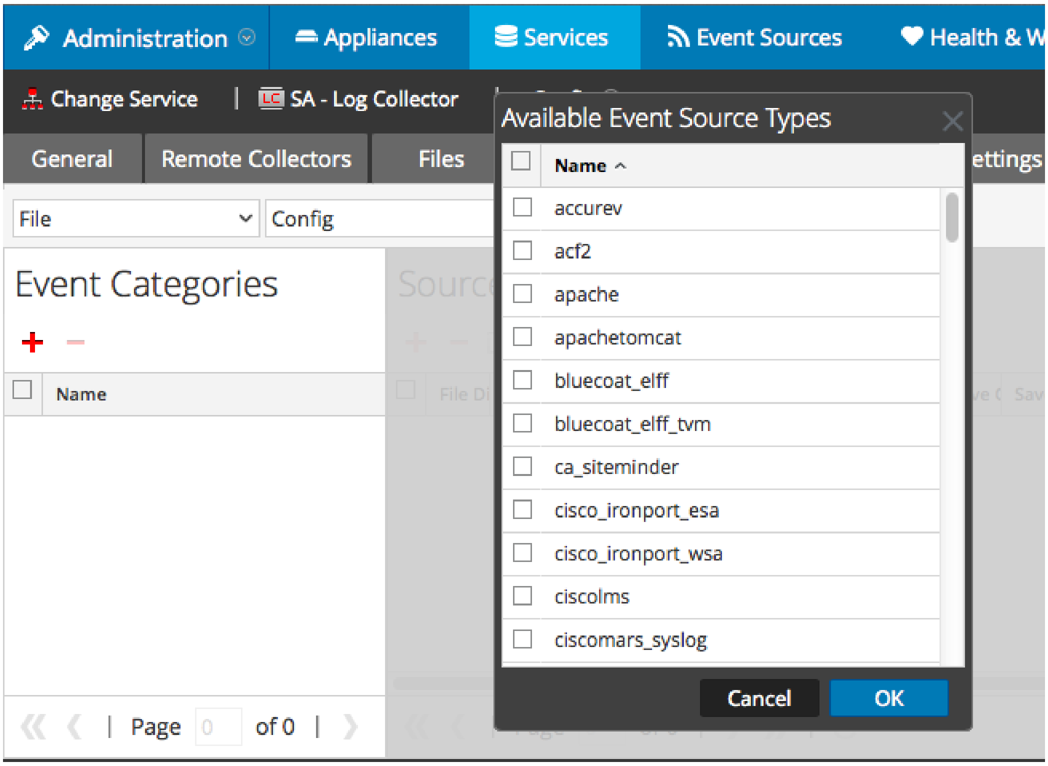
Perform the following steps to configure the Log Collector for File collection.

To configure the Log Collector for file collection:

1. In the **NetWitness** menu, select **Administration** > **Services**.
2. In the Services grid, select a Log Collector, and from the Actions menu, choose **View** > **Config** > **Event Sources**.
3. Select **File/Config** from the drop-down menu.

   The Event Categories panel displays the File event sources that are configured, if any.
4. In the Event Categories panel toolbar, click +.

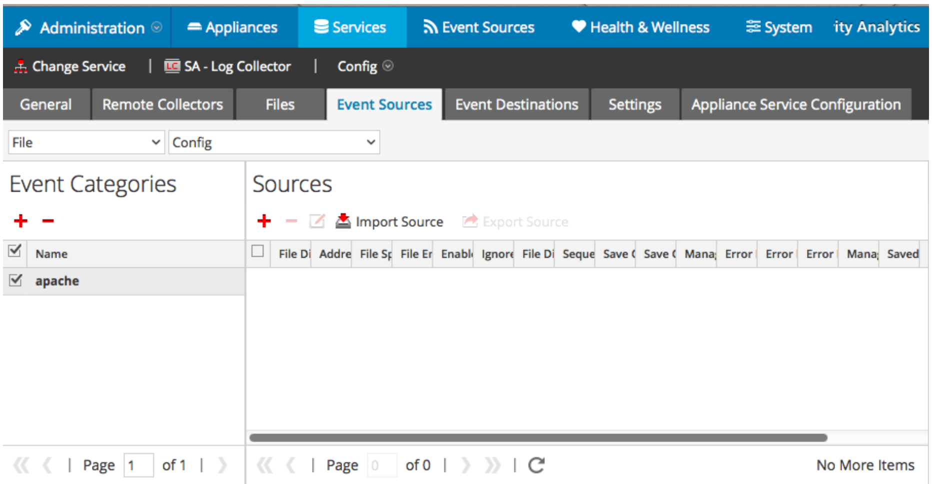
   The Available Event Source Types dialog is displayed.



5. Select the correct type from the list, and click **OK**.

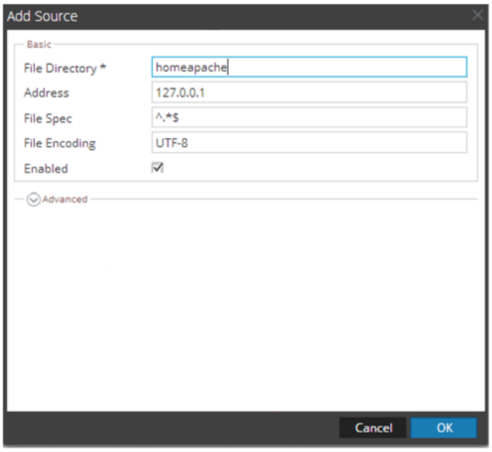
   Select **emc_symmetrix** from the **Available Event Source Types** dialog.

   The newly added event source type is displayed in the Event Categories panel.

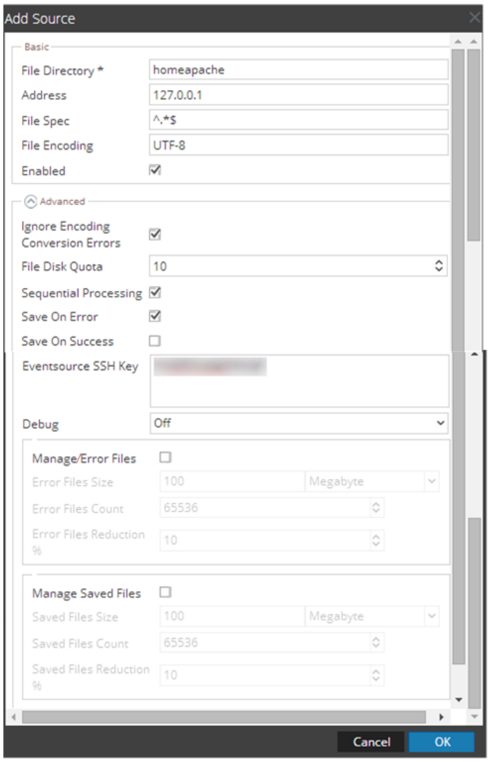


6. Select the new type in the Event Categories panel and click + in the Sources panel toolbar.

The Add Source dialog is displayed.



File Directory * homeapache
Address 127.0.0.1
File Spec ^.*$
File Encoding UTF-8
Enabled ☑



File Directory * homeapache
Address 127.0.0.1
File Spec ^.*$
File Encoding UTF-8
Enabled ☑

Ignore Encoding Conversion Errors ☑
File Disk Quota 10
Sequential Processing ☑
Save On Error ☑
Save On Success ☐
Eventsource SSH Key [redacted]
Debug Off

Manage/Error Files ☐
Error Files Size 100 Megabyte
Error Files Count 65536
Error Files Reduction % 10

Manage Saved Files ☐
Saved Files Size 100 Megabyte
Saved Files Count 65536
Saved Files Reduction % 10

7. Add a File Directory name, modify any other parameters that require changes, and click **OK**.

8. Stop and Restart File Collection. After you add a new event source that uses file collection, you must stop and restart the NetWitness File Collection service. This is necessary to add the key to the new event source.

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