



A For more information on the Kernel Side-Channel Attack using Speculative Store Bypass - CVE-2018-3639, please refer to this Vulnerability Page (https://red.ht/ssbd).



How to configure remote logging with rsyslog

⊘ SOLUTION VERIFIED - Updated August 19 2016 at 8:41 PM - English **▼** ()

Environment

- Red Hat Enterprise Linux 5
- Red Hat Enterprise Linux 6
- Red Hat Enterprise Linux 7
- rsyslog

Issue

- How to configure remote logging with rsyslog
- How to configure system to accept remote log messages in Red Hat Enterprise Linux
- How to send remote log messages to another server with rsyslog
- How to configure RHEV Hypervisor for remote logging using 'rsyslog'

Resolution

In RHEL-6 rsyslog is default logging daemon, In RHEL-5 rsyslog is available but not installed by default.

Install rsyslog

yum install rsyslog

- To configure rsyslog using TCP:
 - 1. Configure the remote server to accept remote log messages using TCP.

Uncomment the following lines in the **MODULES** section of /etc/rsyslog.conf, In RHEL-5 you have to add the lines to beginning of /etc/rsyslog.conf:

```
$ModLoad imtCUSTOMER(https://access.redhat.com/)
$InputTCPSerVerRun 514
```

Restart rsyslog.

```
[root@server1 ~]# service rsyslog restart
```

In RHEL-5 first stop the default syslog deamon and after that restart the rsyslog.

```
[root@server1 ~]# service syslog stop
[root@server1 ~]# service rsyslog restart
```

2. Configure the rsyslog to send rsyslog events to another server using TCP.

Add the following line to the **RULES** section of /etc/rsyslog.conf or in RHEL-5 at the end of the /etc/rsyslog.conf:

```
# remote host is: name/ip:port, e.g. 192.168.0.1:514, port optional
#*.* @remote-host:514
*.* @@10.10.10.1:514
```

You can also specify the severity to send, for example info messages:

```
*.info @@10.10.1:514
```

Restart rsyslog.

```
[root@server2 ~]# service rsyslog restart
```

In RHEL-5 first stop the default syslog deamon and after that restart the rsyslog.

```
[root@server2 ~]# service syslog stop
[root@server2 ~]# service rsyslog restart
```

- Configure the remote server to accept remote log messages using UDP.
 - 1. Configure the server to accept remote log messages using UDP.

Uncomment the following lines in the **MODULES** section of /etc/rsyslog.conf, In RHEL-5 you have to add the lines to beginning of /etc/rsyslog.conf:

```
# Provides UDP syslog reception
$ModLoad imudp
$UDPServerRun 514
```

Restart rsyslog.

```
[root@server1 ~]# service rsyslog restart
```

In RHEL-5 first stop the default syslog deamon and after that restart the rsyslog.

```
[root@server1 ~]# service syslog stop
[root@server1 ~]# service rsyslog restart
```

2. Configure the rsyslog server to send rsyslog events to another server using UDP.

Add the following line to the RULES section of /etc/rsyslog.conf or in RHEL-5 at the end of the /etc/rsyslog.conf:

```
# remote host is: name/ip:port, e.g. 192.168.0.1:514, port optional
#*.* @remote-host:514
*.* @10.10.10.1:514
```

You can also specify the severity to send, for example info messages:

```
*.info @10.10.1:514
```

Restart rsyslog.

```
[root@server2 ~]# service rsyslog restart
```

In RHEL-5 first stop the default syslog deamon and after that restart the rsyslog.

```
[root@server2 ~]# service syslog stop
[root@server2 ~]# service rsyslog restart
```

• Test the configuration:

On server2 (rsyslog sending out the messages):

```
[root@server2 ~]# logger Test from system
[root@server2 ~]# tail /var/log/messages
Dec 25 00:00:01 server2 root: Test from system
```

On server1 (rsyslog receiving the messages)

```
[root@server1 ~]# tail /var/log/messages
Dec 25 00:00:01 server2 root: Test from system
```

• While not specifically rsyslog related, additional selinux changes are required if you would like to run rsyslog on a non-standard port. this additional configuration is not necessary under normal usage. In place of 'tcp 514', use the alternate protocol and port you wish to use.

Note: when configuring remote logging, please make sure to also review and configure action queues (https://access.redhat.com/solutions/330693) in order to avoid potential issues when the remote rsyslog server is unreachable.

Product(s) Red Hat Enterprise Linux (/taxonomy/products/red-hat-enterprise-linux)

Component logrotate (/components/logrotate) rsyslog (/components/rsyslog)

Category Configure (/category/configure)

Tags rhel (/tags/rhel) rhel_5 (/tags/rhel_5) rhel_6 (/tags/rhel_6) rhel_7 (/taxonomy/tags/rhel7) syslog (/tags/syslog)

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