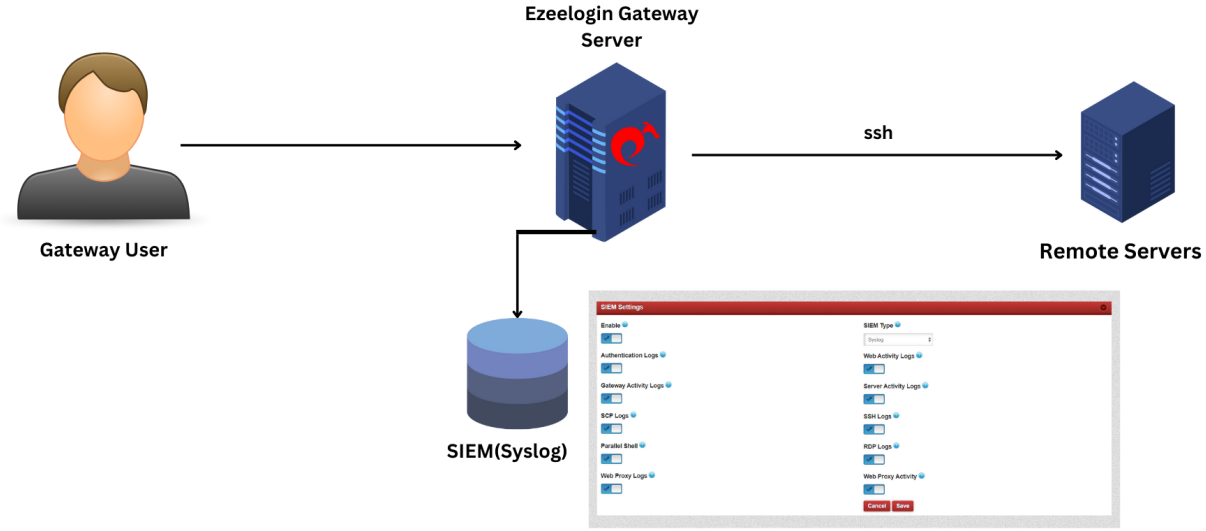
Integrate SSH Jump Server with syslog

670 Nesvin KN April 29, 2024 Productivity & Efficiency Features 391

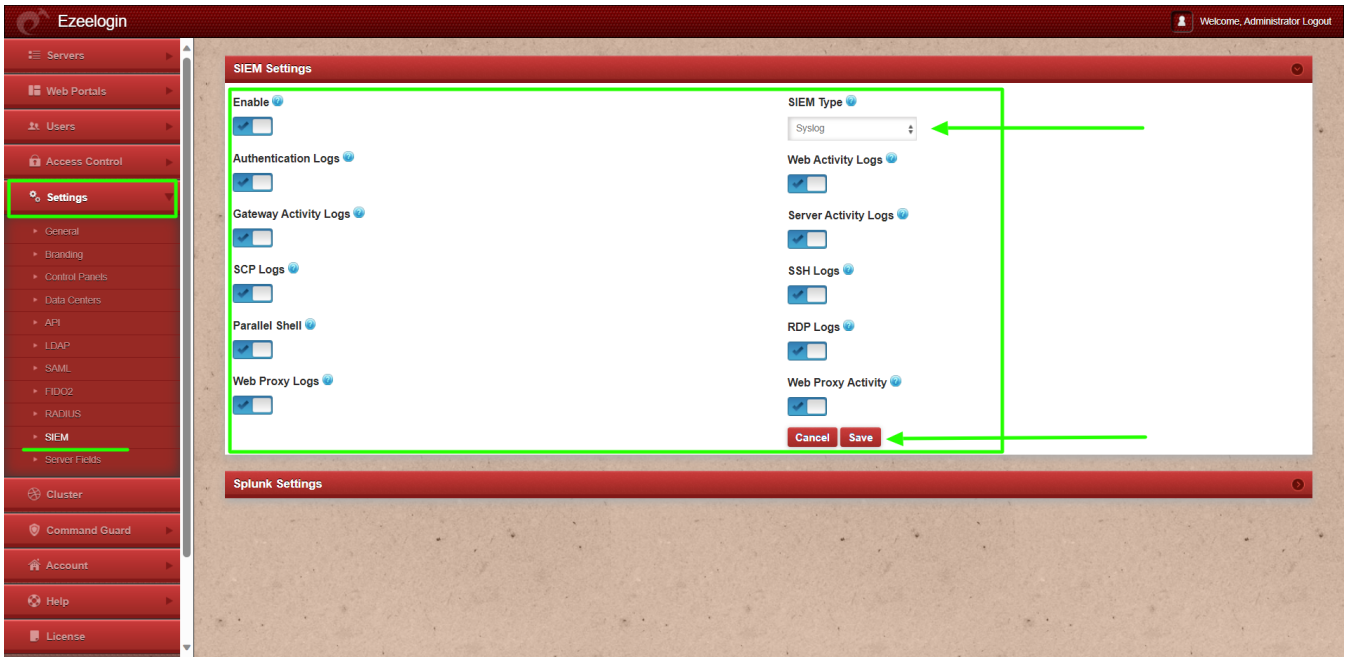
How to forward Ezeelogin SSH Jump Server logs to syslog?

This feature is available from **Ezeelogin version 7.37.0**. Refer article to upgrade Ezeelogin to the latest version.

By enabling this feature, all active logs will be directed to the syslog of the gateway server, which you can monitor by tailing the syslog.



Login to Ezeelogin GUI and navigate to **Settings - > SIEM -> SIEM type to syslog** and **enable logs**.



By enabling this feature, all active logs will be directed to the syslog of the gateway server. You can monitor these logs by tailing the syslog and executing the SIEM script in a separate shell to analyze the forwarded logs.

```
root@gateway ~]# tail -f /var/log/syslog

root@gateway ~]# php /usr/local/ezlogin/siem_push.php
```

Refer below examples for syslog logs:

- **Authentication Log**


```
Jan 22 11:57:07 gw-master ezeelogin: {"id":"898","user_id":"1","controller":"auth","function":"logout","objective":"0","description":null,"creat
ed":"2024-01-22 11:57:05","username":"ezadmin"}
Jan 22 11:57:23 gw-master ezeelogin: {"id":"899","user_id":"1","controller":"auth","function":"login","objective":"0","description":null,"create
d":"2024-01-22 11:57:18","username":"ezadmin"}
```


- **Web Activity Logs**


```
Jan 22 12:00:23 gw-master ezeelogin: {"id":"901","user_id":"1","controller":"settings","function":"index","objective":"","description":null,"cre
ated":"2024-01-22 12:00:21","username":"ezadmin"}
```


- **Gateway Activity Logs**


```
Jan 22 12:02:38 gw-master ezeelogin: {"id":"79","user_id":"1","uid":"1001","remote_ip":"192.168.1.34","remote_port":"55688","local_ip":"192.168.
1.36","local_port":"22","login_time":"2024-01-22 12:02:30","logout_time":"2024-01-22 12:02:34","idle_time":"0","remote_time":"0","status":"SUCCE
SS","reason":"","username":"ezadmin"}
```


- **Server Activity Logs**


```
Jan 22 12:05:15 gw-master ezeelogin: {"id":"43","user_id":"1","server_id":"1","gwactivity_id":"79","login_time":"2024-01-22 12:05:12","logout_ti
me":"2024-01-22 12:05:13","input_idle_time":"0","output_idle_time":"0","status":"SUCCESS: login","reason":null,"type":"SHELL","username":"ezadmi
n","server":"ubuntu.server"}
```

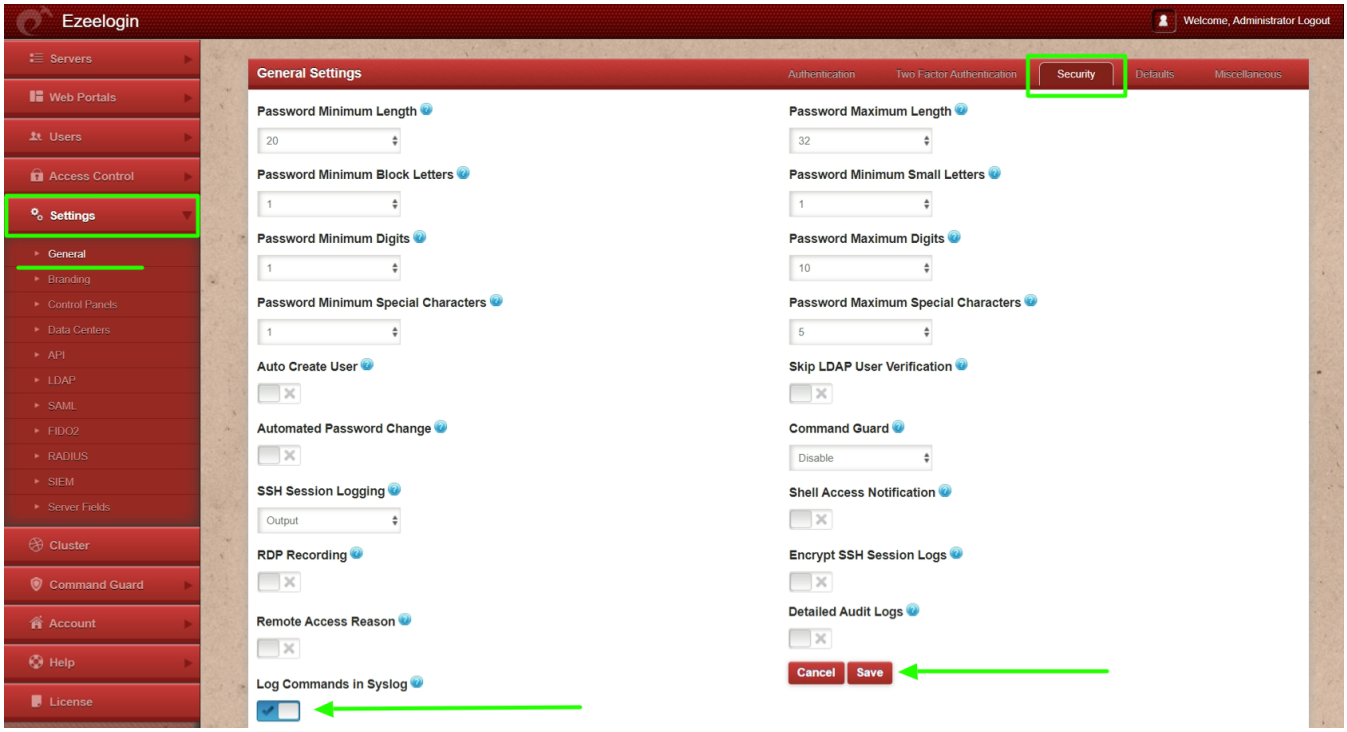

- **SSH Logs**

```
Jan 22 12:05:15 gw-master ezeelogin: {"id":"28","user_id":"1","server_id":"1","serveractivity_id":"43","ssh_user":"root","type":"full","status":
"begin","reason":null,"file":"\/var\/log\/ezlogin\/full\/ezadmin\/root~ubuntu.server~Mon_Jan_22_12:05:12_2024","comments":null,"encryption":"0",
"mexecid":"","created":"2024-01-22 12:05:13","mtime":"2024-01-22 12:05:13","username":"ezadmin","server":"ubuntu.server"}
```


How to enable the feature to forward input commands to syslog?

This feature is available from **Ezeelogin version 7.37.2**. Refer article to upgrade Ezeelogin to the latest version.

Login to GUI, navigate to **Settings** -> **General** -> **Security** -> scroll down and enable **Log Commands in Syslog** and relogin to ezsh and then to remote servers and execute random commands.



Refer below example of recorded input commands in syslog.


```
root@gateway-server:~# cat /var/log/syslog | grep -i "uptime\|free"
Feb 20 12:29:36 gateway-server ezeelogin: {"user_id":1,"username":"ezadmin","server_id":62,"hostname":"debian.server","ssh_user":"root","input":"uptime#015"}
Feb 20 12:29:39 gateway-server ezeelogin: {"user_id":1,"username":"ezadmin","server_id":62,"hostname":"debian.server","ssh_user":"root","input":"free#015"}
```


SIEM (Security Information and Event Management):-

SIEM systems collect and analyze log data generated throughout various systems, applications, and network infrastructure to identify and respond to security events and incidents. The goal is to provide a centralized view of an organization's information security, helping in real-time analysis, incident detection, and response.

Related Articles

- **Integrate Ezeelogin SSH Jump host with Splunk for SIEM**
- **Audit logs and configurations**