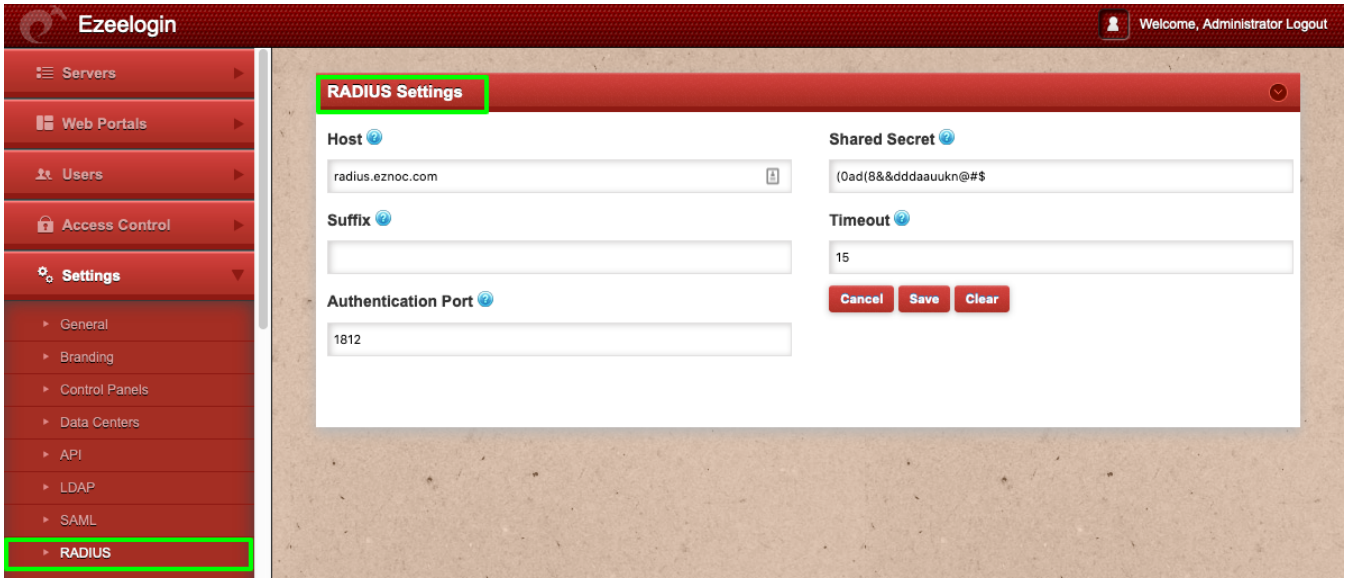
Configure RADIUS Authentication in Ezeelogin SSH Jump host

355 admin July 26, 2024 Productivity & Efficiency Features, Technical, Two Factor Authentication (2FA) 8648

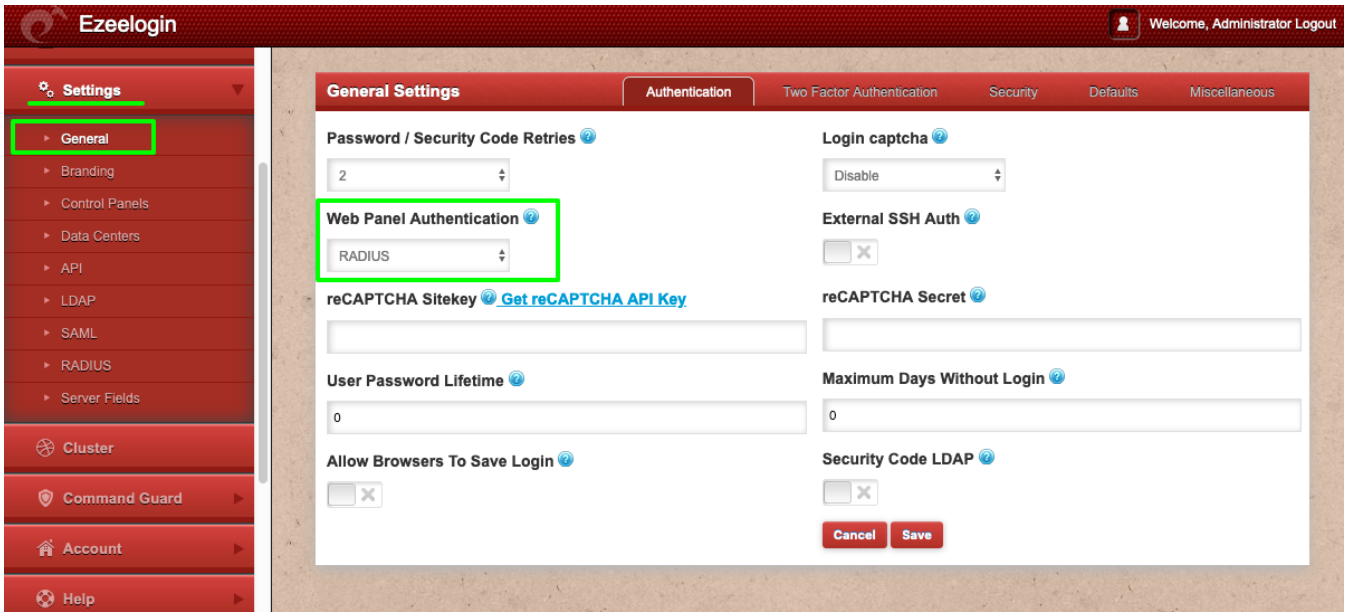
How to integrate & Configure RADIUS Authentication in Ezeelogin?

Overview: This article provides step by step instructions to configure RADIUS authentication in Ezeelogin.

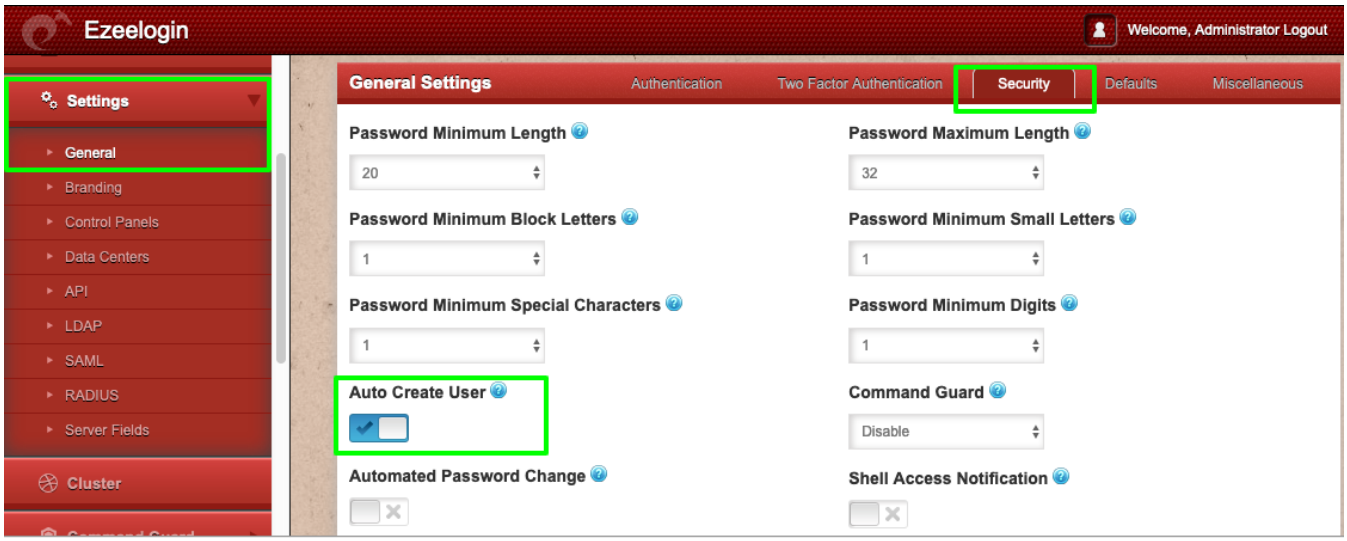
Step 1: Login to Ezeelogin GUI and navigate to **Settings** -> **RADIUS** and enter the RADIUS **server hostname**, RADIUS Client **shared secret** and the **authentication port** and click on **save**.



Step 2: Set **Web Panel Authentication** to **RADIUS.** Navigate to **Settings** -> **General** -> **Authentication** -> **Web Panel Authentication** -> **RADIUS**



Step 3: Enable "**Auto Create User**" under **Settings -> General -> Security -> Enable Auto Create User**, so that a unix user account is created in the system for SSH access when the RADIUS USER authenticates in the Ezeelogin GUI.



Step 4: Test the connectivity from the **Ezeelogin gateway server** to the **RADIUS server**. Run the below command on the gateway server. Replace **RADIUS user**, RADIUS user **password**, **IP address** of RADIUS server and the RADIUS client **shared secret** .

```
[root@jumphost ~]# radtest rtest rtest1234 192.168.0.121:1812
1812 Cole!$%SYUU
Sent Access-Request Id 37 from 0.0.0.0:60808 to 192.168.0.121:1812
length 75
User-Name = "rtest"
User-Password = "rtest1234"
NAS-IP-Address = 127.0.0.1
NAS-Port = 1812
Message-Authenticator = 0x00
Cleartext-Password = "rtest1234"
Received Access-Accept Id 37 from 192.168.0.121:1812 to 0.0.0.0:0
length 20
```

In the example above, the radius user "**rtest**" with the password "**rtest1234**" has authenticated successfully against radius server "**radius.eznoc.com**" (**192.168.0.121**) from the CLI on the gateway server. **1812** is the default radius UDP server port and "**Cole!$%SYUU**" is the RADIUS client shared secret.

NOTE: Install the freeradius-utils-3.0.13-15.el7.x86_64 package so that the binary radtest is available on the gateway server.

Common errors encountered while testing the connectivity between Ezeelogin gateway server and the RADIUS server

- **Invalid RADIUS user password** would throw the following errors. Make sure to provide the correct RADIUS user password.

```
[root@jumphost ~]# radtest rtest rtest123 192.168.0.121:1812
1812 Cole!$%SYUU

Sent Access-Request Id 16 from 0.0.0.0:36719 to 192.168.0.121:1812
length 75

User-Name = "rtest"

User-Password = "rtest123"

NAS-IP-Address = 127.0.0.1

NAS-Port = 1812

Message-Authenticator = 0x00

Cleartext-Password = "rtest123"

Received Access-Reject Id 16 from 192.168.0.121:1812 to 0.0.0.0:0
length 20

(0) -: Expected Access-Accept got Access-Reject
```

- Following error is returned if the RADIUS server **client secret is invalid**.

```
[root@otp ~]# radtest rtest rtest1234 192.168.0.121:1812
1812 Cole!$%SYUU

Sent Access-Request Id 76 from 0.0.0.0:32856 to 192.168.0.121:1812
length 75

User-Name = "rtest"

User-Password = "rtest1234"

NAS-IP-Address = 127.0.0.1

NAS-Port = 1812
```

```
Message-Authenticator = 0x00

Cleartext-Password = "rtest1234"

(0) No reply from server for ID 76 socket 3
```

- To fix the above error, **whitelist** gateway IP in the radius server.

```
root@radius_server ~]# vim /etc/raddb/clients.conf

client radius {
ipaddr = gateway_ip
secret = radius_secret
}
```

Step 5: Install the **pam_radius modules** on the gateway server, so that RADIUS users can authenticate in SSH on the Ezeelogin jumphost.

```
[root@gateway ~]# yum install pam_radius.x86_64
```

Step 6: Edit the PAM configuration file for **SSH**. Add the following line at the top of the file:

```
[root@gateway ~]# vi /etc/pam.d/sshd

#%PAM-1.0

auth required pam_sepermit.so

auth sufficient pam_radius_auth.so
```

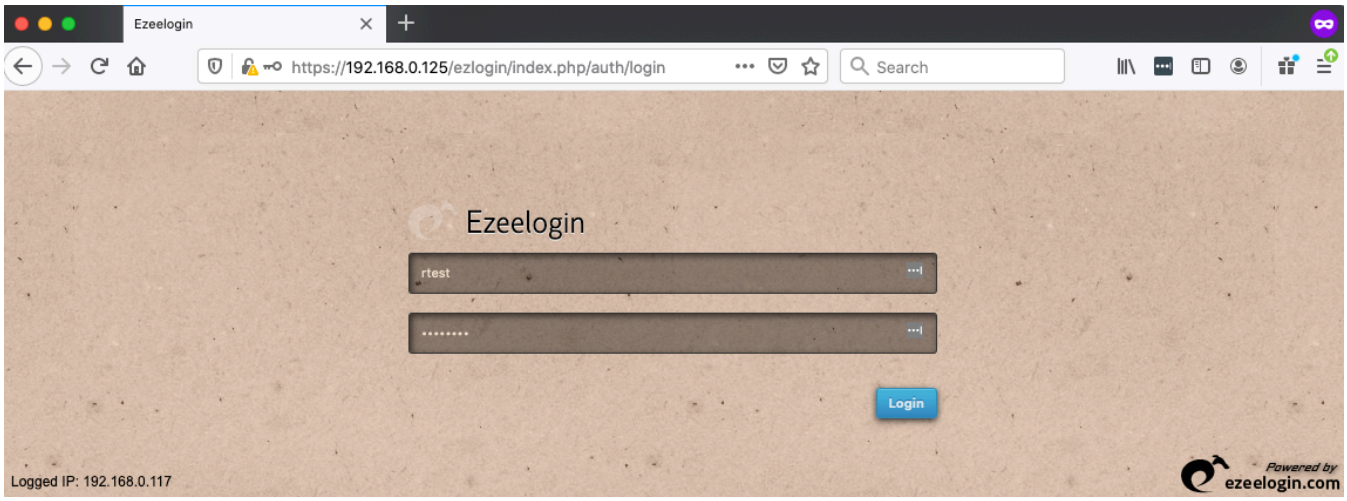
Step 7: Open the configuration file for **pam_radius_auth.** Add your RADIUS server details:

```
[root@jumphost ~]# vi /etc/pam_radius.conf
```

```
#pam_radius_auth configuration file. Copy to: /etc/pam_radius.conf

#192.168.0.121 is the RADIUS SERVER IP, RADIUS CLIENT SECRET AND
TIMEOUT VALUE
192.168.0.121  Cole!$%SYUU 60
```

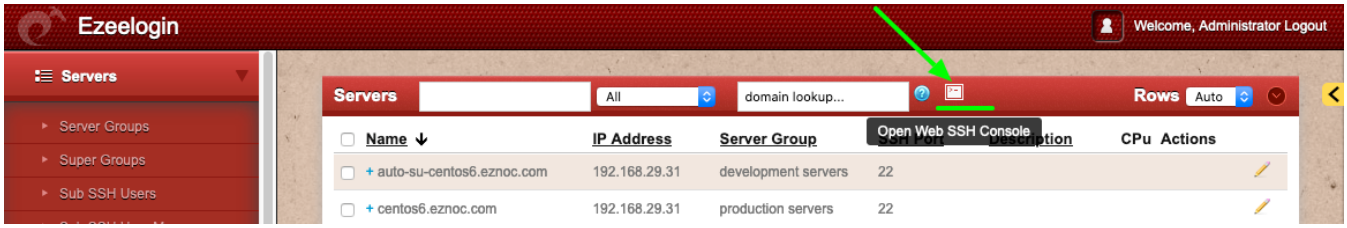
Step 8: Login as the RADIUS USER "**rtest**" to Ezeelogin GUI.

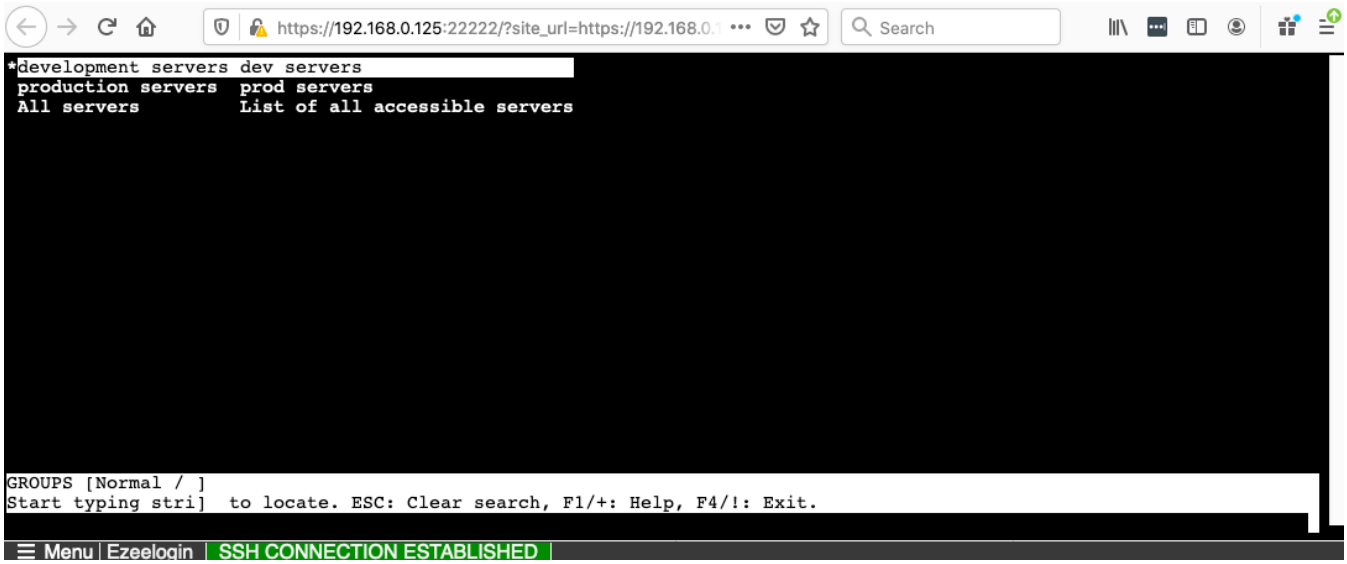


Step 9: SSH using clients such as "**Putty**" or "**Terminal** " as user "**rtest**" to the Ezeelogin jump server or SSH via the " **Web SSH Console**"

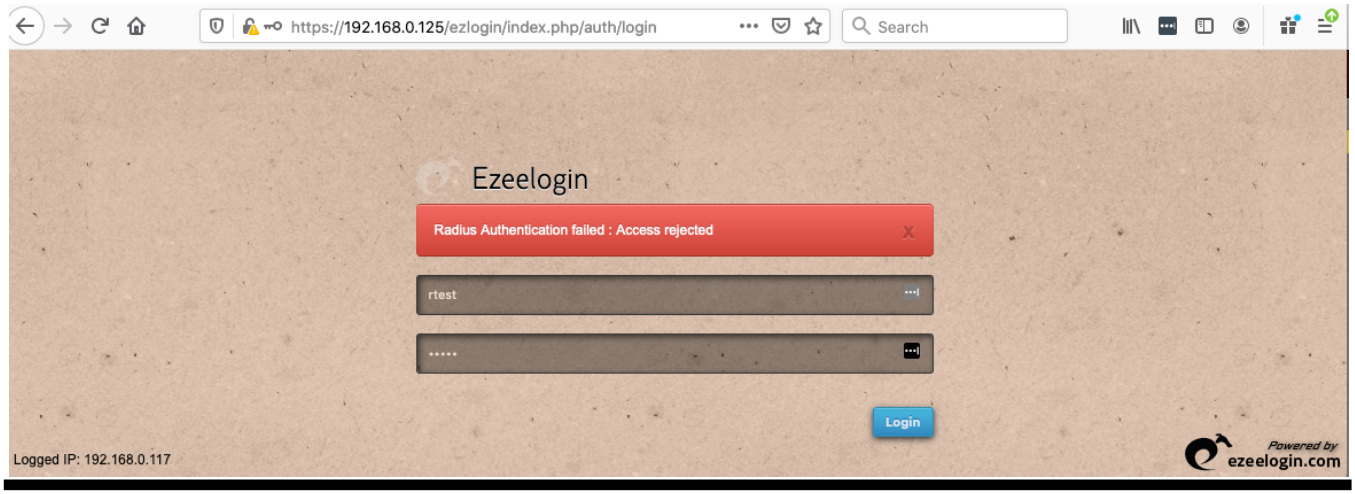
```
:~# ssh rtest@jump_host.server
```

Step 9(A): Use [web SSH console] Console within the Ezeelogin GUI to SSH.





Failure to Authenticate with RADIUS server will display the error below in Ezeelogin GUI.



Related Articles:

[Configure Radius 2FA in Ezeelogin Jumpserver]

Enable/Disable 2FA [Two Factor Authentication] on Ezeelogin

Online URL:
https://www.ezeelogin.com/kb/article/configure-radius-authentication-in-ezeelogin-ssh-jump-host-355.html