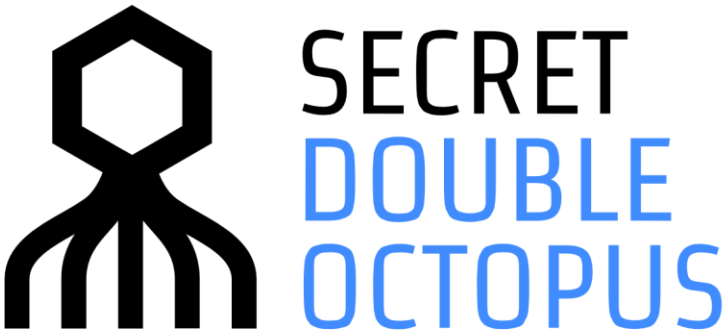
February 6, 2018



How to Configure Octopus Authenticator for OpenVPN

Preface

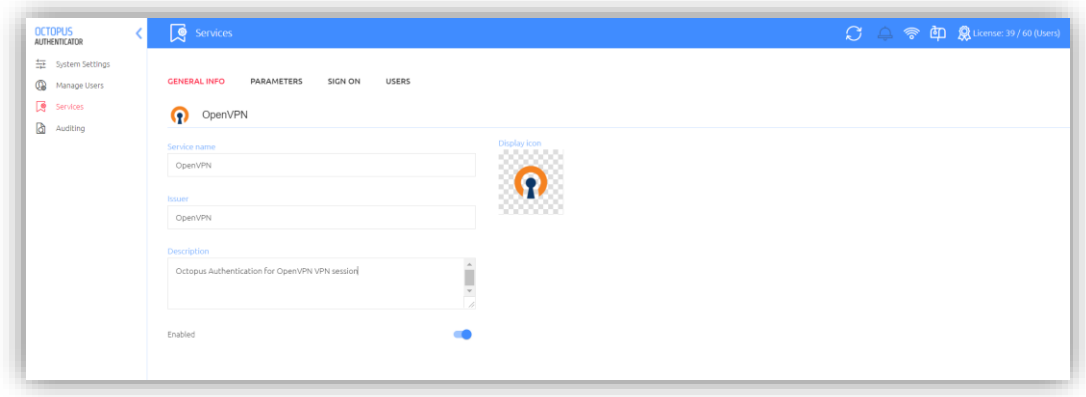
This document describes the configurations required for RADIUS integration between the Octopus Authenticator for OpenVPN VPN connection.

Octopus Authenticator RADIUS Service Configuration

- Login to Octopus Authenticator Console
- Select **Services** from the left pane
- Select Add Service
- Click **RADIUS** service template

Tab-1: General Information

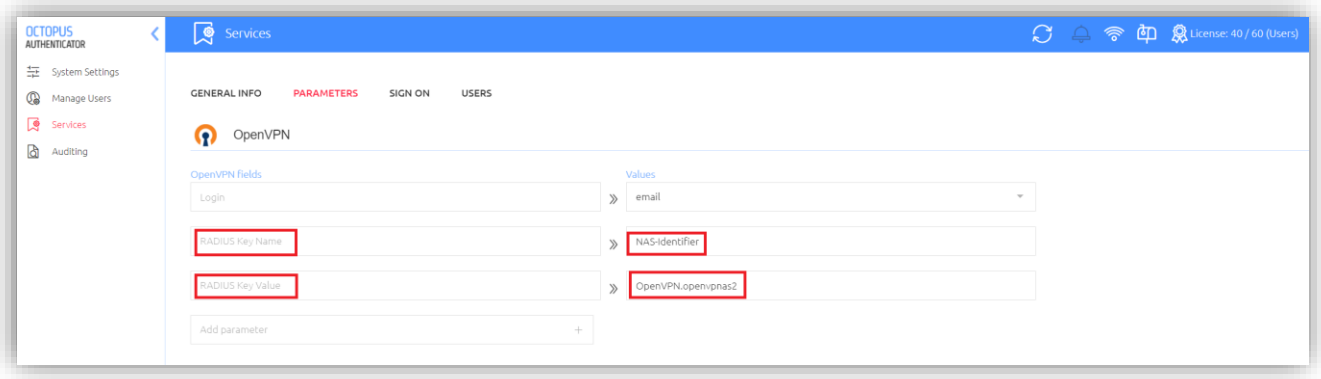
The following field and values are displayed



Field name	Field Value
Service name	OpenVPN
Issuer	OpenVPN
Description	Octopus Authentication for OpenVPN VPN connection
Service status	Enable
Display icon	

Tab-2: Parameters

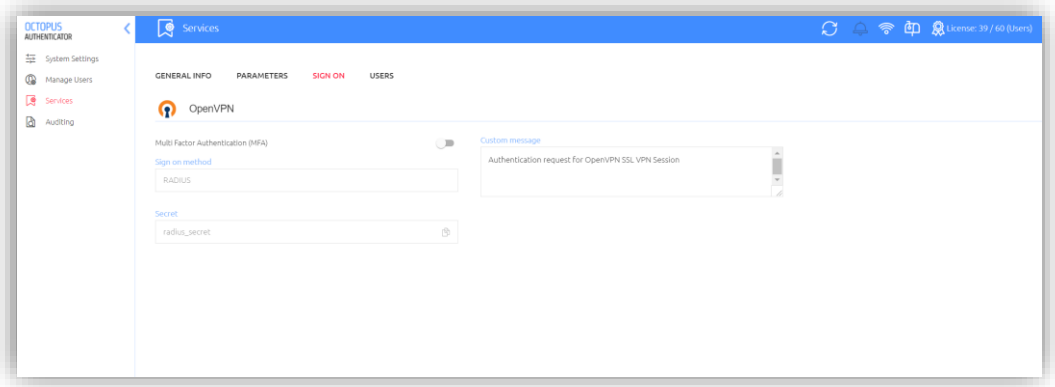
The following fields and values are displayed



Field name	Field value
Login	User's login method for OpenVPN (e.g. email)
RADIUS key name	NAS-Identifier
RADIUS key value	OpenVPN.openvpnas2
+ Add additional parameter	Do not add any parameters

Note: For more information, please refer to OpenVPN RADIUS NAS-Identifier and Session Timeout.

Tab-3: Sign On



The following fields and values are displayed

Field name	Field value
Multi Factor Authentication (MFA)	Off (default)
Sign on Method	RADIUS
Secret	OpenVPN RADIUS secret code
Custom message	Authentication request for OpenVPN SSL session

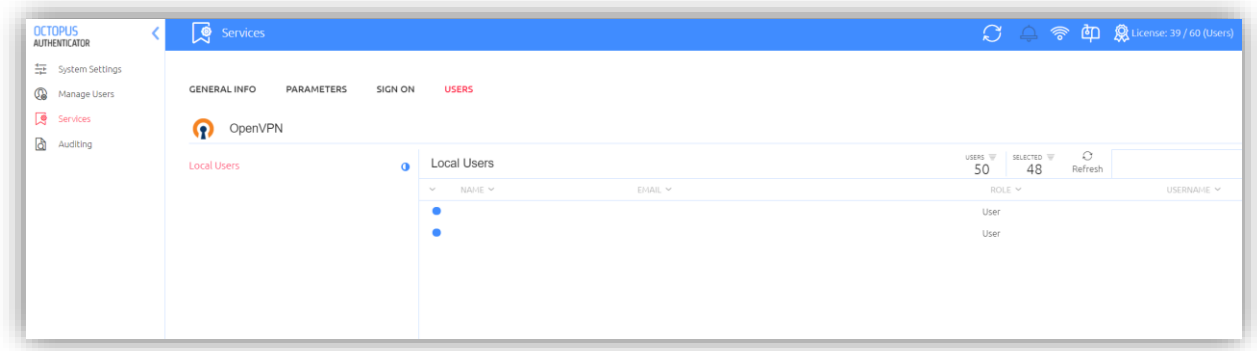
Step 4 – Users

To configure the users of the service

- Select users either from "**Local Users**" or "**LDAP Users**" lists
- You can select either:
    - A group of users to import, by clicking on the dot next to one of the folders
    - An individual user to import, by clicking on the dot next to that user

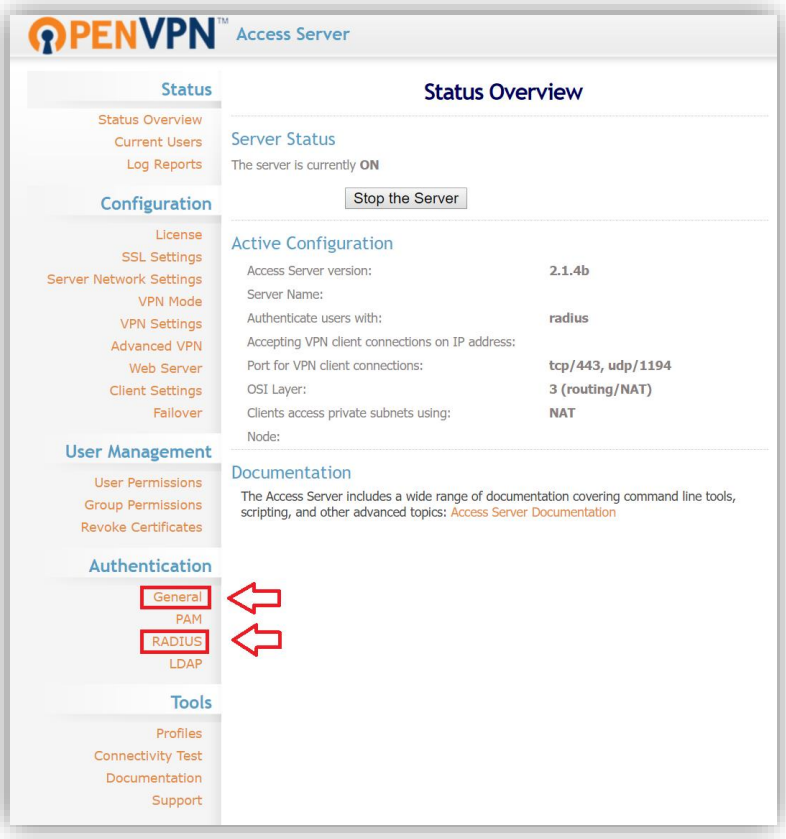
The corresponding dot will then be colored blue. When you select only some of the users in the group, the dot adjacent to the group will be colored partially.
Following save settings action, the selected users will be enrolled in the service.

- Click "**Save Settings**"



OpenVPN Server RADIUS Configuration

Login to your OpenVPN Web Server console



OpenVPN User Authentication

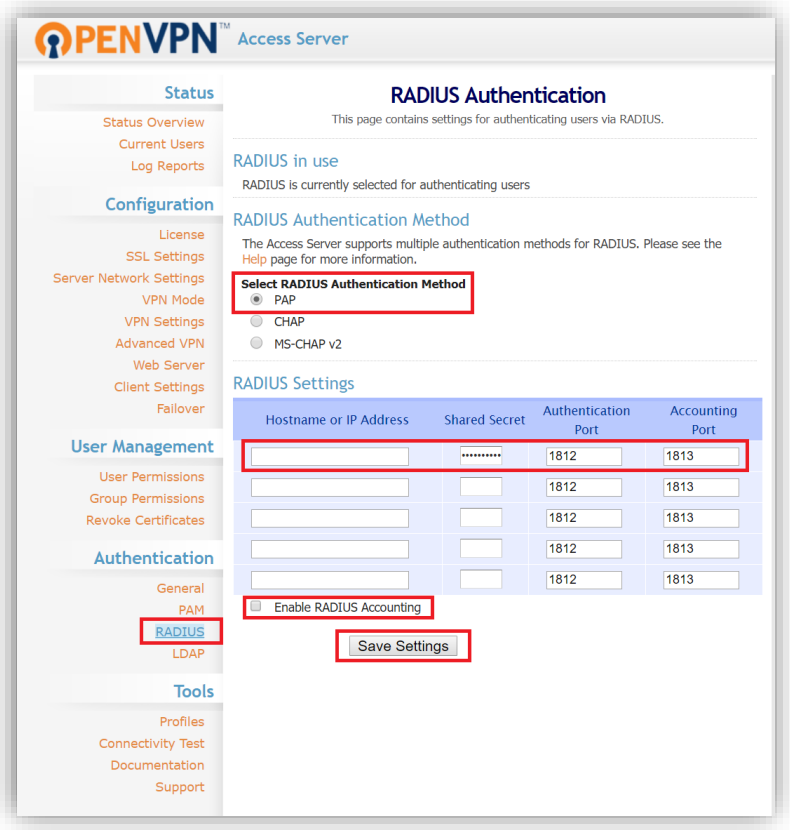
From the left pane, under the "**Authentication**" category, select "**General**"

- Authentication users using:
  - Select "RADIUS" option
  - Click Save Settings

OpenVPN RADIUS Authentication

From the left pane, under the "**Authentication**" category, select "**RADIUS**"

- RADIUS Authentication Methods: "PAP"
- RADIUS Setting:
  - Hostname or IP Address – Octopus Authenticator IP Address
  - Shared Secret – Octopus Authenticator RADIUS secret
  - Authentication Port – 1812
  - Accounting Port – [Not required]
- Enable RADIUS Accounting – Disabled
- Click Save Settings



OpenVPN RADIUS NAS-Identifier and Session Timeout

To Revise the OpenVPN RADIUS authentication session timeout and the OpneVPN RADIUS NAS-Identifier values, a manual CLI modification required.

1. SSH to your OpenVPN server
2. Edit /etc/openvpn/radiusplugin.cnf file
    a. Modify the “NAS-Identifier=” value
    b. Modify “wait=” value to 60 sec (by defult it set for 1 sec)

```
NAS-Identifier=OpenVpn # The service type which is sent to the RADIUS server
Service-Type=5
Framed-Protocol=1
NAS-Port-Type=5
NAS-IP-Address=127.0.0.1
OpenVPNConfig=/etc/openvpn/radiusvpn.conf
overwriteccfiles=true
server
{
   acctport=1813
   authport=1812
   name=127.0.0.1
   retry=1
   wait=1
   sharedsecret= #Here is the secret from the client.conf of the radius server
```

3. Edit /etc/openvpn/radiusvpn.conf file
    a. Modify the “keepalive” value (e.g. keepalive 10 60)

```
# Which device
dev tun
fast-io

user nobody
group nogroup
persist-tun
persist-key

server 10.10.0.0 255.255.255.0
management 127.0.0.1 7505
float

username-as-common-name
client-config-dir ccd
client-to-client

push "redirect-gateway def1"
push "dhcp-option NTP 10.10.0.1"
push "dhcp-option DOMAIN lan"
push "dhcp-option DNS 10.10.0.1"

ping-timer-rem
keepalive 10 60

# Use compression
comp-lzo

# Strong encryption
tls-server
tls-auth ssl/ta.key 0
dh ssl/dh1024.pem
cert ssl/server.crt
key ssl/server.key
ca ssl/ca.crt

plugin /etc/openvpn/radiusplugin.so /etc/openvpn/radiusplugin.cnf

verb 3
mute 10

status /var/log/openvpn/status.log 1
log /var/log/openvpn/radiusvpn.log
```