



JUNIPER-PULSE

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How To Enable OpenOTP Authentication On Juniper-Pulse Secure

This document explains how to enable OpenOTP authentication with Radius Bridge and Juniper SSL VPN.

1. WebADM/OpenOTP/Radius Bridge

For this recipe, you will need to have WebADM/OpenOTP installed and configured. Please, refer to [WebADM Installation Guide](#) and [WebADM Manual](#) to do it. You have also to install our [Radius Bridge product](#) on your WebADM server(s).

2. Register Your Juniper VPN In RadiusBridge

On your OpenOTP RadiusBridge server, edit the `/opt/radiusd/conf/clients.conf` and add a RADIUS client (with IP address and RADIUS secret) for your Juniper VPN server.

Example:

```
client <VPN Server IP> {  
  secret = testing123  
  shortname = Juniper-Pulse  
}
```

3. Configuring New Radius Server On Juniper

1. Log in to the Pulse web-based management interface.
2. From the left-hand menu, select Authentication → Auth. Servers. → Radius Server → New Server.
3. On New Radius Server page configure (see example below):
 - > Name - i.e. OpenOTP
 - > NAS-Identifier - any value to describe your Juniper.
 - > Radius Server - your OpenOTP server IP or hostname.
 - > Shared Secret - i.e. testing123 (this value pre-configured to OpenOTP Virtual Machine). Finally, save changes.

Administrator Console

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Auth Servers >

New Radius Server


Name: Label to reference this server.

NAS-Identifier: Name of the device as known to Radius server

Primary Server

Radius Server: Name or IP address

Authentication Port:

Shared Secret: 

Accounting Port: Port used for Radius accounting, if applicable

NAS-IP-Address: IP address

Timeout: seconds

Retries:

Users authenticate using tokens or one-time passwords
 Note: If you select this, the device will send the user's authentication method as "token" if you use SAML, and this credential will not be used in automatic SSO to backend applications.

4. Enabling Challenge-Response (OTPPrompt)

- On your new RADIUS server settings page, scroll down to section Custom Radius Rules and click New Radius Rule... button.
- In subsequent window configure (see example below):
 - > Name - i.e. OTPPromptRule
 - > At Response Packet Type choose Access-Challenge.
 - > At Attribute criteria:
 - 2.1 Choose Reply-Message for Radius Attribute.
 - 2.2 Operand must match the expression.
 - 2.3 Value must be "(.*)", without the quotes.
 - 2.4 Click Add.

Name:

If received Radius Response Packet ...

Response Packet Type:

Attribute criteria:

Radius Attribute	Operand	Value	
<input type="text" value="Reply-Message (18)"/>	<input type="text" value="matches the expression"/>	<input type="text"/>	<input type="button" value="Add"/>
Reply-Message	matches the expression	(.*)	<input type="button" value="X"/>

- > Under then take action to select the Show Generic Login Page radio-button.
- > Click Save to complete configuring a new RADIUS server.

5. Activate New RADIUS Server

1. In the left-hand menu, select User Realms → Create New Authentication Realm.
2. In subsequent window configure (see example below):
 - > Name - i.e. OpenOTP Realm (this value will be shown in Realms drop-down on your login page).
 - > For Authentication under Servers, choose RADIUS server created in previous steps (OpenOTP).
 - > Click the Save Changes to complete configuring a new authentication realm.

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New Authentication Realm

Name:

Description:

When editing, start on the Role Mapping page

Servers

Specify the servers to use for authentication and authorization. To create or manage servers, see the [Servers](#) page.

Authentication:

Directory/Attribute:

Accounting:

3. In the left-hand menu, click Sign-In → Sign-In Policies.
4. Select the Sign-In policy to which you like to tie the new Realm with, i.e. Default Sign-In Policy (/*).
5. Select User Picks from a List of Authentication Realms under Authentication Realms (see example below):

- > From a list of Available Realms, add your new Authentication Realm to list of Selected Realms.
- > Click Save Changes and your Juniper/Pulse configuration is complete and you can start to log in by using OpenOTP.

Administrator Console

Signing In > */

Save Changes

User type: Users Administrators

Sign-in URL: */ Format: <host>/<path>/;

Description: Default User Sign In

Sign-in page: Default Sign-In Page To create or manage pages, see [Sign-In pages](#).

Authentication realm

Specify how to select an authentication realm when signing in.

User types the realm name
The user must type the name of one of the available authentication realms.

User picks from a list of authentication realms
The user must choose one of the following selected authentication realms when they sign in. If only one realm is selected, see the [Authentication](#) page.

Available realms:

Add -> Remove

Selected realms: OpenOTP Realm

Move Up Move Down

Note

Don't forget to authorize the communication on 1812 UDP port (default RADIUS port for the authentication) from your Juniper-Pulse system to your WebADM instance at the firewall level.

6. Example Login

OTP Token Note

This chapter assumes you have already enrolled your token to OpenOTP, or that you are logging in with a Tokenless mode (i.e. SMS or Email OTP).

1. Go to your Juniper sign-in URL.
2. From Realm, drop-down choose the OpenOTP Authentication Realm.
3. Enter your domain login name and password:



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Welcome to the
Secure Access SSL VPN

Username Please sign in to begin your secure session.

Password

Realm

4. Page will refresh to prompt you to enter your OTP.



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Welcome to the
Secure Access SSL VPN

Challenge / Response

Challenge: Please enter your Authenticator code:

Enter the challenge string above into your token, and t

Response:

5. Enter you OTP delivered to you via SMS, Email or provided by your OATH Token, Yubikey or similar device. You should be successfully logged in now!

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