Juniper ChangePIN

Contents

Introduction

This document outlines how to integrate the Swivel ChangePIN with Juniper. See also RADIUS ChangePIN and ChangePIN How to Guide

Prerequisites

Swivel Server

Juniper SSL VPN version 6 or 7 OS.

Modified Changepin page for version 6

Modified Changepin page for version 7

Baseline

Juniper SA 2000 JunOS 6 or 7.

Swivel 3.8

Architecture

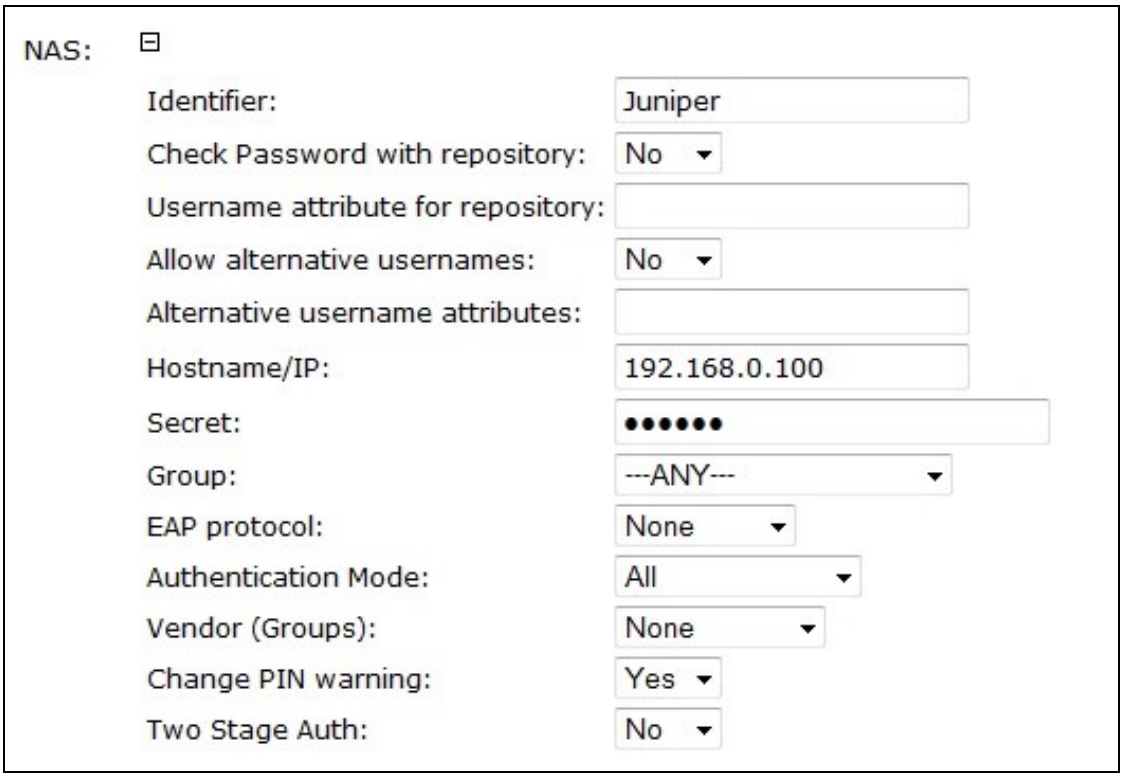
A user authenticates against the Juniper server, which passes the RADIUS authentication to the Swivel server. If the user is required to Change their PIN the Swivel server responds with a RADIUS Challenge, and the user is redirected to a change PIN page.

Installation

Configure the Swivel and Juniper so that they are fully working together, see Juniper SA 6.x Integration or Juniper SA 7.x Integration or Juniper SA 8.x Integration

Swivel Integration Configuration

On the Swivel Administration Console select RADIUS then NAS and edit the required Juniper NAS entry Change PIN Warning to Yes, then apply the settings.



Juniper ChangePIN Integration

Download the login page and add the modified ChangePIN page given above under prerequisites, rename and edit as appropriate, add to the zip file and upload to the Juniper server.

Juniper ChangePIN page options

Edit the following options:

```
var OTC_OPTION = "image"; // button, image, disable
```

image When the user tabs down from the username field, the TURing will automatically show, used for Single Channel access

button The login page will present a TURing button. Click the button to display the TURing, used for Single or Dual Channel access

disable The TURing image will not be shown, used for Dual Channel access.

TURingImage: Is the URL used to generate a TURing image. This should point to the internal IP address of the appliance

var TURingImage = "https://turing.swivelsecure.com/proxy/SCImage?username=";

Juniper RADIUS Custom rules

On the Juniper Administration console select the Swivel RADIUS server and create a Custom RADIUS rule with the following settings:

Name: ChangePIN

Response Packet Type: Access Challenge

Attribute Criteria: RADIUS Attribute Reply-Message (18)

Attribute Criteria: Operand Matches the expression

Value: changepin

Action: use the appropriately modified page; *Show Next Token page* or *show New Pin Page*

	Name	Response Packet Type	Attribute criteria
	ChangePIN	**Access Challenge**	(Reply-Message matches the expression "change

Additional Installation Options

Combining Swivel and RSA RADIUS changePIN

Where Swivel is acting as a proxy RADIUS server for RSA authentication, Swivel can proxy the RADIUS request.

Configure the Swivel RADIUS proxy so that it will authenticate RSA users, see RADIUS Proxy How to guide.

On the Juniper edit the Swivel RADIUS authentication setting to add an additional custom rule with the following settings:

Name: RSAChangePIN

Response Packet Type: Access Challenge

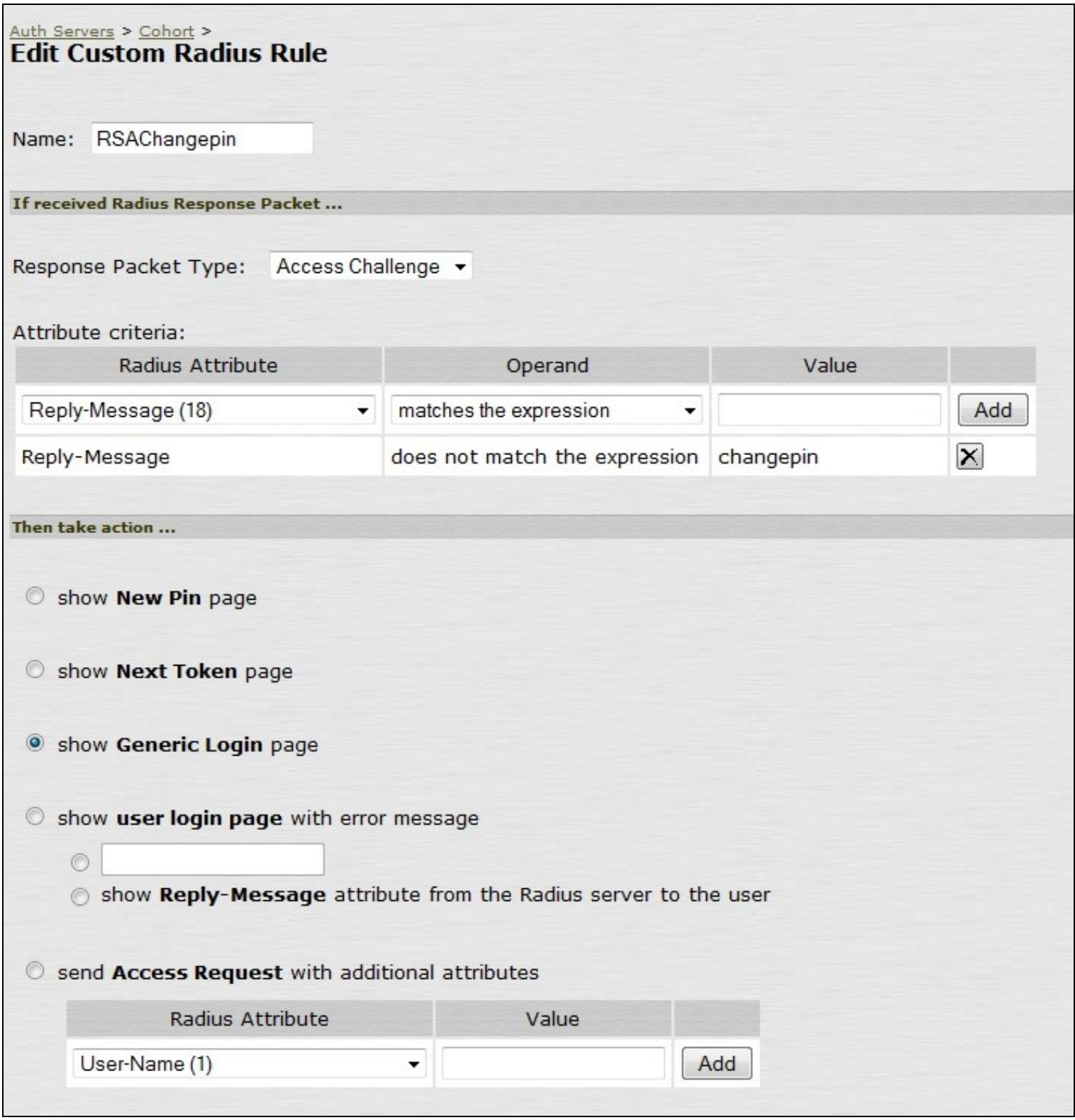
Attribute Criteria: RADIUS Attribute Reply-Message (18)

Attribute Criteria: Operand does not match the expression

Value: changepin

Action: show Generic Login page

Apply the settings



Note: The Juniper displays the Generic login page as *show **Defender** page*

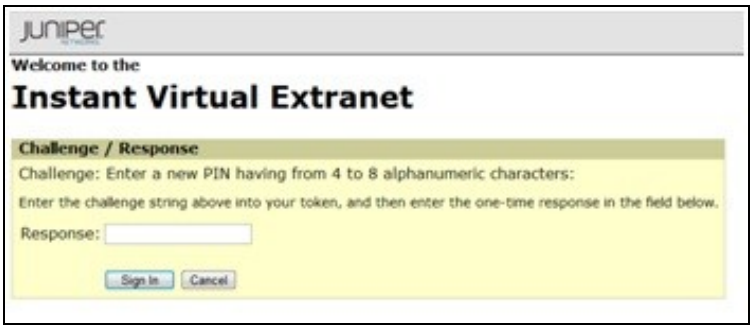
	Name	Response Packet Type	Attribute criteria
☐	ChangePIN	**Access Challenge**	(Reply-Message matches the expression "change
☐	RSAChangepin	**Access Challenge**	(Reply-Message does not match the expression "

Verifying the Installation

Login as a Swivel user.

Set the user to be required to change their PIN, the user should be redirected to the ChangePIN page. The user will be required to enter their old OTC, and a new OTC based on what they want their PIN to be. This OTC could be from the TURing, SMS message or mobile app. Remember to never enter the Swivel PIN.

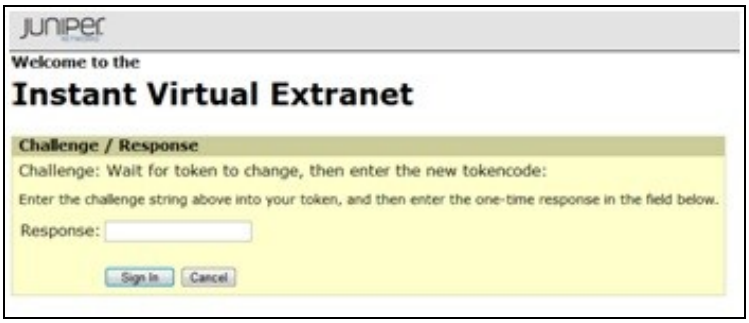
Where RSA authentication is being used, require the user to change their PIN, and they should be redirected to a RSA Change PIN page. The the first time a user accesses the system with a new token the user will be required to enter a new PIN. If the user wanted a PIN of 1234 the would enter 1234 in the box.



The RSA server then send a challenge asking for the PIN to be re-entered to confirm the user has not miss-typed it. The user would again enter 1234.

Once the user has successfully changed their PIN the RSA server asks them to login again with their new PIN plus token code. The user would enter 1234XXXXXX where XXXXXX is the code displayed on the token.

If the RSA server sees the token go out of sync it will ask the user to enter their next token code. The user would now enter XXXXXX where XXXXXX is the next code displayed on the token after the code the user used to authenticate. They do not type their PIN at this stage.



Uninstalling the Swivel Integration

Remove the modified login pages and RADIUS customisation.

Troubleshooting

Check the Swivel logs for authentication, proxy and ChangePIN requests.

Known Issues and Limitations

Where Swivel and RSA change PIN is being used and the user is a Swivel and a RSA user, and dual channel authentication is being used, then the Change PIN will fail for RSA users. for single channel users not using dual channel authentication, the proxy server can be used to detect the presence of a single channel session being started.

Additional Information