



POLICIES

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Policies

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1. Overview

This documentation will explain policies configurable for Web Services and Web Applications under WebADM admin GUI. WebADM provides different kinds of policies :

- > default application configuration (weight 1),
- > per-group (weight 2),
- > per-user (weight 3),
- > per-application (weight 4-6).

Settings with the highest weight override settings with the lowest weight.

(e.g for OpenOTP: My default OpenOTP settings require a LoginMode=LDAP only but the user who is trying to log in has a policy configured on his account with the LoginMode=LDAP+OTP. To be able to log in, this user will have to provide LDAP password+OTP).

2. Default policy (weight 1)

The first level of setting is defined under the applications configuration itself. Login on [WebADM Admin GUI](#) > [Applications](#) tab > [APPLICATION_NAME](#) > [CONFIGURE](#) . All web services and web applications provided by RCDevs can be configured here for the first level of settings. If no other settings are configured on a user, a group or in a client policy, then the default configuration will be applied.

3. Per-group policy (weight 2)

Applications can be configured per-group. Per-group policies override the default applications configuration. Login on [WebADM Admin GUI](#) , select a group on which you want to apply other settings than the default settings already configured on the application configuration itself. To be able to configure a policy on a group, the group must be activated under WebADM. When you are on the group object, click on [Activate](#) button > [Proceed](#) > [Extend Object](#) .

Your group is now Activated and ready for per-group policy. On the group object > [Object Details](#) > [WebADM settings: NONE \[CONFIGURE\]](#) click on [CONFIGURE](#) button.

On the next page, you can select which application you want to reconfigure for the selected group.

In this example, I reconfigure some settings for OpenOTP: `OTP Type` and I enabled the `OTP PIN Prefix` for that group.

⚠ Note

With this extra-settings configured on the group, if a member of that group doesn't have a phone number and a PIN Prefix already configured on his account, then the login will be a failure with an error message like: Account missing required data.

4. Per-user policy (weight 3)

Applications can be configured per-user. Per-user policies override the default applications configuration and the per-group policies. Login on `WebADM Admin GUI`, select a user account on which you want to apply other settings than the default settings. To be able to configure a policy on a user account, the user must be activated under WebADM. When you are on the user object, click on `Activate` button > `Proceed` > `Extend Object`.

»

Your user is now Activated and ready for per-user policy. On the user object > `Object Details` > `WebADM settings: NONE [CONFIGURE]` click on `CONFIGURE` button.

»

On the next page, you can select which application you want to reconfigure for the selected user.

»

In this example, I changed the `LoginMode` to `LDAPMFA` and `OTP Fallback` to `SMS` for the user.

⚠ Note

With that extra-settings configured on the user account, if the user doesn't have a FIDO key or phone number already configured on his account, then the login will be a failure with an error message like : Account missing required data.

5. Client policy

5.1 Default client policy (weight 4)

A policy can be configured per-application. Client policy overrides every other policy already configured on a group or on a user account. A client policy can also be defined per-group (weight 5) and per-network (weight 6) under the client policy configuration itself.

First, log in on the WebADM Graphical Unit Interface. Click on the `Admin` tab and you will find a box named `Client Policies`.

Click on it and on the next page, click on `Add Client` :

Enter a Common Name, if you want a description and click on `Proceed` :

On the next screen, click on the `Create Object` button.

A client Policy object has now been created. We are now able to configure this client policy.

Many settings can be applied here like which users/groups/networks the client policy will be applied, allowed/excluded hours, which domain...

If you scroll down a little bit, you will find the setting named `Forced Application Policies` .

Check the box on left and click on the `Edit` button. On the next screen, you are able to completely reconfigure an application.

In our example, we will choose OpenOTP:

So, you can choose every setting you want and reconfigure the OpenOTP application for your client application. The client policy overrides the default application settings, user and group settings.

After editing the configuration, you can click on the `Apply` button to save the configuration.

5.2 Per-group extra policy (weight 5)

In the same way, a client policy can be overridden for a specific group. In `Per-Group Extra Policies` menu, enable the `group list` setting and then click the `Select` button. You are now in the edition mode and you can select the group you want in the left LDAP tree just by clicking on it.

In this example, I reconfigure the setting `LoginMode` to `LDAPMFA` for the group `CN=domain admins,CN=Users,DC=yorcdevs,DC=com` .

Per-group policy overrides the default policy configuration.

5.3 Per-network extra policy (weight 6)

In the same way, a client policy can be overridden for login coming from a specific network. In

Per-Network Extra Policies section, check the box on the left of **Internal Networks** setting and put the network value for which network you want to reconfigure the policy. In **Application Settings (Internal)**, click the **Edit** button and you can now reconfigure the application you want for the specified network.

In this example, I reconfigure the setting **LoginMode** to **LDAP** for login requests coming from 192.168.3.0/24 network.

Per-Network policy overrides per-group policy.

Note

WebADM can match a policy with a client application through a client ID, NAS-Identifier or IP of the client application. A dedicated section for Client ID is described below.

Warning

To be able to use that setting, your client application should be configured to forward the user IP address to WebADM.

6. How to match my client policy with my client application

The matching between a client policy configured under WebADM and a client application can be done in different ways.

6.1 Client ID

With RCDevs products/plugins (e.g : OpenOTP Credential Provider, ADFS plugin, Spankey client...) a setting named **Client ID** can be configured during the plugin/application installation.

For OpenOTP Credential provider for Windows:

I can put **WINDOWS** in the Client ID field and create a client policy named **WINDOWS** on WebADM and then the matching will operate.

6.2 Nas-Identifier

In some third-party product, you can define a setting named **NAS-Identifier**. In this example with Pulse Secure, I configured a **NAS-Identifier** named **MyPulse**. So I will create a client policy named **MyPulse** in WebADM to match the policy with my Pulse VPN.

6.3 Client application IP(s)

If you are not able to configure a NAS-ID or Client ID on your application, you can match a client policy with the IP address of your client application. The IP address of your client should be configured in the client policy itself. When you edit the client policy, you can find a setting named `Client Name Aliases`. Put the IP address of your client here and policy will match during an authentication.

Note

With the Client Name Aliases setting, you are able to match many clients with only one client policy. You just have to put IPs comma-separated.

7. Web Application policy

You can define client policy for Self-User registration, Self-Service Desk and Password Reset applications. To do it, you just have to create a client policy with the short name of the application. Short names are:

- > pwreset
- > selfdesk
- > selfreg

Create a client policy for the application you want and reconfigure the Application settings under the client policy configuration menu.

8. Check policy matching through WebADM logs

Try an authentication on your client application, log in on the WebADM GUI and click on `Databases` tab. In the **System Log Files** section, click on `WebADM Server Log file`.

```
[2017-12-06 14:21:01] [172.17.0.12] [OpenOTP:R8MFCYSQ] New openotpSimpleLogin SOAP request
[2017-12-06 14:21:01] [172.17.0.12] [OpenOTP:R8MFCYSQ] > Username: administrateur
[2017-12-06 14:21:01] [172.17.0.12] [OpenOTP:R8MFCYSQ] > Domain: yorcdevs.com
[2017-12-06 14:21:01] [172.17.0.12] [OpenOTP:R8MFCYSQ] > Password: xxxxxxxx
[2017-12-06 14:21:01] [172.17.0.12] [OpenOTP:R8MFCYSQ] > Client ID: NETSCALER
[2017-12-06 14:21:01] [172.17.0.12] [OpenOTP:R8MFCYSQ] > Source IP: 172.17.0.12
[2017-12-06 14:21:01] [172.17.0.12] [OpenOTP:R8MFCYSQ] Enforcing client policy: NETSCALER (matched client ID)
[2017-12-06 14:21:01] [172.17.0.12] [OpenOTP:R8MFCYSQ] Registered openotpSimpleLogin request
[2017-12-06 14:21:01] [172.17.0.12] [OpenOTP:R8MFCYSQ] Resolved LDAP user:
```

```

CN=Administrateur,CN=Users,DC=yorcdevs,DC=com (cached)
[2017-12-06 14:21:01] [172.17.0.12] [OpenOTP:R8MFCYSQ] Resolved LDAP groups:
propri\xc3\xa9itaires cr\xc3\xa9ateurs de la strat\xc3\xa9gie de groupe,admins du
domaine,administrateurs de l\%e2%80%99entreprise,administrateurs du
sch\xc3\xa9ma,administrateurs,utilisateurs du bureau \xc3\xa0 distance,groupe de
r\xc3\xa9plication dont le mot de passe rodc est refus\xc3\xa9
[2017-12-06 14:21:01] [172.17.0.12] [OpenOTP:R8MFCYSQ] Started transaction lock for
user
[2017-12-06 14:21:01] [172.17.0.12] [OpenOTP:R8MFCYSQ] Found user language: EN
[2017-12-06 14:21:01] [172.17.0.12] [OpenOTP:R8MFCYSQ] Found 1 user mobiles:
+3520000000
[2017-12-06 14:21:01] [172.17.0.12] [OpenOTP:R8MFCYSQ] Found 1 user emails:
xxxxxx@rcdevs.com
[2017-12-06 14:21:01] [172.17.0.12] [OpenOTP:R8MFCYSQ] Found 3 user certificates
[2017-12-06 14:21:01] [172.17.0.12] [OpenOTP:R8MFCYSQ] Found 38 user settings:
LoginMode=LDAPOTP,OTPTType=TOKEN,OTPLength=6,ChallengeMode=Yes,ChallengeTimeout=90,Mobile1
1:HOTP-SHA1-6:QN06-
TIM,SMSType=Normal,SMSMode=Ondemand,MailMode=Ondemand,LastOTPTime=300,ListChallengeMode=9
[2017-12-06 14:21:01] [172.17.0.12] [OpenOTP:R8MFCYSQ] Found 10 user data:
LoginCount,RejectCount,OTPPrefix,TokenType,TokenKey,TokenState,TokenID,Device1Name,Device
[2017-12-06 14:21:01] [172.17.0.12] [OpenOTP:R8MFCYSQ] Found 1 registered OTP token
(TOTP)
[2017-12-06 14:21:01] [172.17.0.12] [OpenOTP:R8MFCYSQ] Requested login factors: LDAP &
OTP
[2017-12-06 14:21:01] [172.17.0.12] [OpenOTP:R8MFCYSQ] LDAP password Ok
[2017-12-06 14:21:01] [172.17.0.12] [OpenOTP:R8MFCYSQ] Challenge required
[2017-12-06 14:21:01] [172.17.0.12] [OpenOTP:R8MFCYSQ] Sent push notification for token
#1
[2017-12-06 14:21:01] [172.17.0.12] [OpenOTP:R8MFCYSQ] Waiting 28 seconds for mobile
push response
[2017-12-06 14:21:05] [192.168.3.56] [OpenOTP:LZ33NOWW] Received mobile request
(authentication)
[2017-12-06 14:21:05] [192.168.3.56] [OpenOTP:LZ33NOWW] > Session: kq7sxP30abLXpygI
[2017-12-06 14:21:05] [192.168.3.56] [OpenOTP:LZ33NOWW] > Encoded OTP Password: xxxxxx
[2017-12-06 14:21:05] [192.168.3.56] [OpenOTP:R8MFCYSQ] Found challenge session
started 2017-12-06 14:21:01
[2017-12-06 14:21:06] [172.17.0.12] [OpenOTP:R8MFCYSQ] PUSH password Ok (token #1)
[2017-12-06 14:21:06] [172.17.0.12] [OpenOTP:R8MFCYSQ] Updated user data
[2017-12-06 14:21:06] [172.17.0.12] [OpenOTP:R8MFCYSQ] Sent success response

```

You can show in the previous transaction logs, that the Nas-Identifier passed by the client application is NETSCALER and the client match with the corresponding policy.

```
[2017-12-06 14:21:01] [172.17.0.12] [OpenOTP:R8MFCYSQ] > Client ID: NETSCALER
...
[2017-12-06 14:21:01] [172.17.0.12] [OpenOTP:R8MFCYSQ] Enforcing client policy:
NETSCALER
(matched client ID)
```

So my client policy is applied and settings defined in this policy will be required/available during an authentication coming from that client.

You can check in the same way if a Client ID or IP address match with your client policy.

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