

CLOUD INTEGRATION

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Token RCDevs in the Cloud Cloud Services Cloud Authentications Cloud Badging

1. General overview

This documentation provides a brief overview of a few integrations after you have created and configured your OpenOTP cloud tenant on RCDevs Mutualized Cloud Infrastructure or subscribed to the Dedicated Cloud Infrastructure. Please note that the descriptions of each product in this documentation are not fully comprehensive. For more detailed information about a specific product, I recommend referring to the "Advanced Configuration" sections where you will find the relevant references and resources for further exploration.

The "Advanced Configuration" sections will provide you with more in-depth information on each product, including detailed explanations, configuration steps, and additional resources to help you better understand and configure the specific integration. Feel free to refer to those sections for a more comprehensive understanding of the products and their advanced configuration options.

2. User creation, activation and token enrollment

The following steps outline how to create a user account in WebADM, activate the account, enroll a software token using the Push mechanism, and conduct a test login via the WebADM Admin portal prior to commencing your integration.

2.1 Account Creation

Login on WebADM Admin portal with your Administrator account.

We	bADM
Cloud E	Edition v2.3.0 (Preview)
Please enter	your username and password
Username:	admin
Password:	
Domain:	Default 🗸
	Login
Recovery Lo	gin 🚯

Click on the create button in order to create a test account.



Select User/Administrator and then click **Proceed**.

06	WebADM Option Set	0 💄	WebADM Account
	OptionSet, Mountpoint, Domain, Client		LDAP user with WebADM attributes
0 4	User / Administrator	0 📽	Static Group
	Administrator or LDAP user		LDAP group of users
0 8	Dynamic Group	0 💄	UNIX Account
	LDAP group with dynamic contents		UNIX POSIX Account
0 🖁	UNIX Group	0 4	Organizational Unit
	UNIX POSIX Group		LDAP organizational unit container
08	Organisation	0 🖸	Country
	LDAP organization container		LDAP country container
0	Domain	0 🔒	Password Policy
	LDAP domain container		LDAP password policy configuration

On the next page, provide user's information and then click **Proceed**.

	Create Object of Type User / Administrator
	Mandatory attributes
Container	[ROOT] Select
Last Name	test
Common Name	user
	Optional attributes
Password	
Country	[Not Set]
Description / Note	
First Name	
Email Address	test_user@domain.com
Mobile Phone Number	
	Use international format with space separator (ex. +33 612345678).
Organization	
Login Name	[test_user
User Certificate	You can create a user certificate one object is created.
Preferred Language	[Not Set] 🗸
Organizational Unit	
	Proceed

A recap is prompted, check your inputs and click create object.

Confirm objec	t creation for cn=user
Attribute	Value
DN	cn=user
Last Name	test
Common Name	user
Password	****
Email Address	test_user@domain.com
Login Name	test_user

Your user account is now created.

	Object cn=user 1	
LDAP Actions	Object Details	
Delete this object Copy this object Move this object Export to LDIF	Object class(es): person Account is unique: Yes (in [ROOT]) Account badged-in: No User activated: No Activate Now! (1)	
 Change password Create certificate Advanced edit mode 		
Object Name	user	Renar
Add Attribute (9)	Country	✓ Ar
Add Extension (2)	UNIX Account	✓ Ar
Last Name [add values]	test	
Last Name (add values) Email Address (add values) [delete attribut	e] test_user@domain.com	

2.2 Account Activation

Now, we need to activate the account. On the user account, in **object details**, click **Activate now** button followed by **Proceed** button.

	On the set of the stars		
	Optional attributes		
WebADM Settings	You can edit this attribute once object is created.		
WebADM User Data	This attribute cannot be created manually.		
WebADM Voice Model	You cannot set this attribute manually!		
Preferred Language	[Not Set] 🗸		
Mobile Phone Number			
	Use international format with space separator (ex. +33 612345678).		
Description / Note			

Finally click on **Extend object**:

Add Extension WebADM Account to cn=user	
The object will be extended with the objectclass WebADM Account . No new attribute will be added to the object during extension. Extend Object Cancel	

Account is now activated. You can now see the Application Actions menu.

	Object cn=user 🚯	
LDAP Actions LDAP Actions LDAP Actions LDAP Actions LDAP Actions Copy this object Actions object Actions object Copy this object Copy this object LDAP Actions Copy this object LDAP Actions LDAP Actions Copy this object LDAP Actions LDAP A	Object Details Application Actions Object class(es): person, webadmAccount Account is unique: Yes (in [ROOT]) Account badged-in: No WebADM settings: None [CONFIGURE] WebADM data: None [EDIT] User activated: Yes Deactivate () Logs and inventory: WebApp, WebSry, Inventory, Record	s) tions)
Dbject Name Add Attribute (12)	User	Renar
Add Extension (1)	UNIX Account	✓ Ar
	(b. d.	
Last Name [add values] Email Address	test	

2.3 Token Enrollment

We are going now to enroll a software token. We advise you to use <u>OpenOTP Token application</u> in order to take advantage of all features provided by OpenOTP. In <u>Application Actions</u> menu, click on <u>MFA Authentication Server</u> > <u>Register/Unregister OTP Tokens</u>. Select I use a <u>QRCode-based Authenticator</u> (time-based or event-based), then the enrollment QRCode is prompted. Open the OpenOTP Token application (or another authenticator app), then click the camera button and scan the QRCode.

Register / Unregister OTP Tokens for cn=user

You must register a Hardware or Software Token for the user to start using it. The registration consists in synchronizing a Secret Key and an initial Token state.

Instructions to register a QRCode-based Software Token:

- 1. Install the software Token on the mobile device.
- 2. Start your software Token and Scan the QRCode displayed below.
- 3. Click the 'Register' button below after scanning.

Detached registration let you send the QRCode to the user via email for self-registration. The registration is done when the suer scans the QRCode within the configured expiration time. The protection PIN can optionally be sent via SMS.

Register Token: Primary Token I use a Hardware Token (Inventoried) I use a Hardware Token (Inventoried or YubiCloud) I use a Yubikey Token (Inventoried or YubiCloud) I use a QRCode-based Authenticator (Time-based) I use a QRCode-based Authenticator (Event-based) I use another Token (Manual Registration)
 I use a Hardware Token (Inventoried) I use a Yubikey Token (Inventoried or YubiCloud) I use a QRCode-based Authenticator (Time-based) I use a QRCode-based Authenticator (Event-based) I use another Token (Manual Registration)
I use a QRCode-based Authenticator (Time-based) I use a QRCode-based Authenticator (Event-based) I use another Token (Manual Registration)
I use a QRCode-based Authenticator (Event-based) I use another Token (Manual Registration)
I use another Token (Manual Registration)
QRCode:
(entarge) 1 20 and 1 and
Optional Information
Expiration Date: Edit
Registered UserID: test_user V
Registered Domain: Default 🗸
Mobile Push Data: [Waiting for Mobile Response]
Detached Registration
Expiration Time: 30 Mins 🗸
QRCode Format: JPG V
Send QRCode: O Yes (Email) O No
Enrolment PIN: 867440

If the QRCode has been scanned with OpenOTP token, you don't need to click **Register** button. If the QRCode has been scanned with another token application, you need to click **Register** button once the token is registered on your device.

Register / Unregister OTP Tokens for cn=user	
TOTP Token has been registered	

Your token has been registered successfully, we can now try to perform a login with it.

2.4 Test login

Come back on the user account, you will see now the token metadata registered on the account:

	Object cn=user (1)	
LDAP Actions	Object Details Application Action Object class(es): person, webadmAccount Account is unique: Yes (in [ROOT]) Account badged-in: No WebADM settings: None [CONFIGURE] WebADM data: 7 data [EDIT] User activated: Yes Deactivate ① Logs and inventory: WebApp, WebSry, Inventory, Record	ns 1 actions) actions) rr (16 actions) actions)
Object Name	user	Renam
Add Attribute (11)	Country	✓ Add
Add Extension (1)	UNIX Account	✓ Add
Last Name [add values]	test	
Email Address [add values] [delete attribute]	test_user@domain.com	
Login Name [add values]	test_user	
WebADM User Data	Edit Application Data	
[delete attribute]	OpenOTP.TokenID: IOS:7bd73cb16fa859e10f4d11b51b71a53b5868fa7484948a	
	OpenOTP.TokenKey: [BINARY APPLICATION DATA - 20 Bytes]	
	OpenOTP.TokenModel: Apple iPhone13,3 (iPhone)	
	OpenOTP.TokenSerial: 906B8FFE-C4F5-42DD-9189-C573F1B42DBE	
	OpenOTP TekenState: 0	
	I DODT I P TOYOD WOO' TITLE	

The enrollment here has been performed with OpenOTP Token and Push mecanism are by default enabled. We will now perform a test login with Push authentication.

In Application Actions menu, click on MFA Authentication Server >

Test OTP & FIDO Authentication



	Test OTP	& FIDO Authentication for <u>cn=user</u>
You can use this page to test a user Op Some fields are optional and depend on	enOTP authentication rec your OpenOTP configura	quest. ation.
Server Status: Accepting Requests		
Server: MFA Authentication Server 2.2.4 (Web/ System: Linux 5.14.0-284.11.1.el9_2.x86_64 xi Listener: 127.0.0.1:8080 (HTTP/1.1 SSL) Uptime: 2763s (0 days) Cluster Node: 2/2 (Session Server 2) Local Memory: 0M (42M total) Shared Memory: 5M (0M total) Connectors: OK (4 alive & 0 down)	ADM 2.3.0) 86_64 (64 bit)	
	Login Method:	Normal Simple
	Username:	test_user V
	Domain:	Default 🗸
	LDAP Password:	
	OTP Password:	
	Simulated Client:	[Default] V
	Simulated Source:	37.65.55.113
	Simulated Options:	
	Request Settings:	1
	Virtual Attributes:	
	-	9d1f11a598dd4ca83ec2b86ab9829bf1
	Browser Context:	

Provide the LDAP password that you previously configured during the user account creation, then click Start. A push notification should be prompted on your phone. Approve the request. The test login has been performed successfully.

Test OTP & FIDO Authentication for cn=user	
Re	essage: Authentication success
	Ok Cancel

If you didn't regiter the token with OpenOTP token application, then an OTP challenge is sent if you only provided the LDAP password. In that case, provide the OTP code generated by your token application and click Continue.

Test OTP & FID	O Authentication for cn=user	
Result: Message: Timeout:	Challenge (OTP) Enter your TOKEN password 56 seconds	
OTP Password:	nue Cancel	

The test login has been performed successfully.

If the test login failed, you can browse the WebADM server logs to identify the problem. You can access the logs by accessing the **Databases** tab > WebADM Server Log File. The following <u>troubleshooting documentation</u> will provide help and resolution on common issues.

ome Admin Create Search Import Da	bases Applications About Logout
	SQL Databases and Log Files
	SQL Log Tables
	2 Administrator Logs
	Admin Portal logs (admin audit)
	💣 Manager Logs
	Manager Interface logs (admin audit)
	VebApp Logs
	Web Application logs (user audit)
	WebSrv Logs
	Web Service logs (user audit)
	Alert Logs
	System Alerts from applications
	SQL Data Tables
	Localized Messages
	Message translations for applications and services
	Monthannia Devices
	OpenOTP hardware Tokens and SpanKey PIV keys
	Recorded Sessions & Transactions
	Transaction records and SpanKey sessions' audit
	Physical Access & Mobile Badging
	Dashboard with badging records and presence reports
	Client, Server and Mobile Certificates
	Provides review and revocation for services your certificates
	Web Services API Keys
	Access Tokens required for web services with secure access
	System Log Files
	WebADM Shared Event Logs
	WebADM mixed event logs from all cluster nodes
	WebADM Server Log File

3. Credential Provider for Windows Login

All features of the plugin are fully supported with OpenOTP Cloud. To ensure smooth operation and avoid any password-related issues or mismatches between accounts created on your OpenOTP cloud solution and your domain accounts, we recommend disabling the "Remote LDAP Password Check" setting in the OpenOTP Credential Provider plugin. By doing so, only the second factor will be validated by OpenOTP, while LDAP password validation will remain within the Windows perimeter.

For the integration of local accounts, you have several options. LDAP passwords can be managed either by OpenOTP Cloud solutions or within the Windows perimeter. To configure local users and computers outside the domain, please refer to the documentation on Local users and computers out of domain. The provided link directs you to the specific documentation that outlines the configuration steps for integrating local users and computers outside the domain with OpenOTP. It will provide you with detailed instructions and guidance the different supported scenarios using local accounts.

3.2 WebADM Domain configuration

Please refer to that topic for the whole WebADM Domains configuration.

To be able to use UPNs and/or SAMAccountName attributs with Windows integrations and OpenOTP cloud solutions, you need to configure your WebADM domain and OpenOTP cloud accounts correctly.

When you create an account on OpenOTP cloud, the uid attribut of the cloud account must match the value of the SAMAccountName attribut of the corresponding account in your Active Directory (or local login name for local Windows accounts).

For the WebADM domain configuration, here is an example on how to configure it.

Windows Domain information used for that configuration example:

- > NETBIOS Domain name: SUPRCDEVS
- > Domain Name: support.rcdevs.com
- > User account UPN: <u>Administrator@support.rcdevs.com</u>
- > SAMAccountName: Administrator

Edit your WebADM Domain configuration from WebADM Admin GUI > Admin tab > User Domains > Default > CONFIGURE

- > User Search Base and Group Search Base: [ROOT] or [Respectively pointing to your Users and Groups OUs]
- > UPN Suffix : support.rcdevs.com
- > UPN Mode : Implicit (Default)
- > Domain Name Aliases:SUPRCDEVS

Your WebADM domain configuration is ready for Windows integrations.

3.3 Client SSL Certificate or API key Creation

3.3.1 SSL Certificate generation

To utilize OpenOTP in the cloud with OpenOTP Credential Provider for Windows, there are two solutions available to secure communications between your Windows machine and the cloud infrastructure. The first option is to obtain a client SSL certificate for the Windows client machine. To acquire an SSL certificate, you can refer to the following documentation. It is important to note that when the client certificate expires, it must be manually renewed. If the certificate expires, the Windows client will be unable to authenticate with OpenOTP. Please consider that the provided link is a placeholder and should be replaced with the actual documentation or instructions specific to obtaining a client SSL certificate for Windows machines. The documentation will outline the necessary steps to acquire and manage the SSL certificate to ensure secure communication between the Windows client and OpenOTP Servers in the cloud.

By following the <u>documentation</u>, you will have the necessary guidance to obtain and renew the client SSL certificate, enabling uninterrupted authentication with OpenOTP for your Windows client machine.

- > The **Certificate type** must be set to **Client**.
- > The Restricted Application setting can be set to OpenOTP if you want to restrict the usage of that certificate to OpenOTP only (optional).

After obtaining the certificate and key from the WebADM internal PKI, you can download them separately. To use them with the OpenOTP Credential Provider plugin, you need to merge the two files into a single file with the .crt extension. When merging, ensure that you add the key first, followed by the certificate.

During the installation of the OpenOTP Credential Provider, you will be prompted to provide the merged certificate file. This step ensures that the plugin can establish a secure connection between the Windows machine and the OpenOTP cloud infrastructure.

Please note that the exact steps and prompts during the installation process may vary based on the specific version and configuration of the OpenOTP Credential Provider. Follow the installation instructions carefully and provide the merged certificate file when prompted to ensure a successful setup.

Found below, an example of a client certificate in the format accepted by OpenOTP Credential Provider for Windows plugin:

-----BEGIN PRIVATE KEY-----

MIIEvQIBADANBgkghkiG9w0BAQEFAASCBKcwggSjAgEAAoIBAQD3fGHtbz2LB7TH 2oq8McFqNmd5f3s23fMzNB6Y1SHMxHJ6jSqCFXJA6Ek7OaYVJaW4vP1XaCAjioUW O53HiKtHfJw9GcwVeV91/cNXefBKadgBjHstfX/msNjfKJBfNvc1EDITkk/tIAvx S3DSZIA4KeSIqiGwD19INT6G/x8LZzo+f0F+cp7rzKHGAlki81P3N9P6rVhsh+z+ adam2t0RsJ2msXNLe4S+pUAcT+ES1LfmRAbEeFIOYYzMZgCi12IOkLy9TA+h+/eC kM/BC6XGDWD4Mjnhcw8Mz+cEtRlyS3BiEL/XTacsm68bGvWQkKAsBy4oR3VQgGQf dFOOvNUvAgMBAAECggEAUtvsFYim/ENqPXdn97ZY3hOY9U6/PBF3eW87x0Oke2BS S8Gzt7XieOTMj+2vM2IVYNK1p2wPRpb8FAOFweZ6IgcQcEyQzafDVEfP/RuwXdmu HmagXwyjo+MV2TFFIPtcLQHvj5Fu/R87oF/3uBk57JPqFe+QM9gRwIrfQmdsR25x vJaMOTi6+BpszuAsWgmVFAOq362Ix+G8GmulvOawwcd+zIZ3jFKZofwwRsOJa/xd zs4rNSMgVQgFuj/ApS8jRqWHYpS0ok91kVrbMBXk8HzvHRWPri0z4M2Ojk8UWvxT TbtB80LsTuyl6a6vZDeveK2y9jJgJN/xJu00e5t8QQKBgQD+t9/lcwV1G50LDuP7 270xJq4RrrXU6HidUDfisINt809bvXbyUYfppvw3tq5u6X6pdQaLCkHpajXyyZI8 skTez2OLwj2SZpOoaNxho+8Hx6WldHKAnX1l4ulkrHkdYLzUYC4MyJ322QKXc+G/ FDks084JZBXswaK5r1qNPec6/wKBgQD4uzERrTcGkZxK1ylNJ0IStP65lk96fgiX Vo37PHS491DA31fnc394yMTwAGir61bsFKZwyq7HKNa/2yRIDBv4J2O5HIRQHXfx

wQGjBlkoVopFlUnUhd5ZaELX4jy39kzxhtZn8DmTas3vR/dT5lAshVx/y2NfFBp5 ePap3KFV0QKBgE62S3UJ9jnGGrV8GH+P2Ot5ZHkaYB426G7UhzCKE1M6yN80oTko cLOHYpFk5mpnxThgbXEx7kRPCfTlzWPsQtQHil952sUO5bo5DUEvA4KH82w5m9ia 0IFV10Q1+AdYCYInZpOUuxu429Apgy0k9rYfjZ/hSdUr0TllMtdKtdXJAoGAX58/ ZwdLbzgNeOws0Z91FFIG10+sdG/9h4jb/qkoSm+x2OREHBPX/qxYodfWZbmM6ieq MRSKisBVht6NnTEik405FllzP8WEdil4Ip9vKUXT1JpnDtAEQiUGBY7RPvvuarAm v0CoMddOol3tZJDXY7ZFcE/VvRiycN6jHXxXffECgYEA0g9Fz9RBNp121wPoKI63 1/pxHultKucK1lbLdFGKyGDk75UpYeawSqjnEnIf/eWjmNgmDIoM1+RWAb+LNYZN phs7w1kALVx7aVClv75jpl99e2W6XfqnglJ3r/5uAV9lldFXpwE1CsQvR9m5YYOd N+gHq64AniJ2Bxk5+OGJzYc=

-----END PRIVATE KEY-----

-----BEGIN CERTIFICATE-----

MIIDhzCCAm+gAwIBAgIBAzANBgkqhkiG9w0BAQsFADAeMRwwGgYDVQQDDBNXZWJB RE0qQ0EqIzExZTI2OTRjMB4XDTIzMDIyODExMjIwOFoXDTI0MDIyODExMjIwOFow ODEIMCMGA1UEAwwcd2luZG93cy5ob3N0aW5nLm9wZW5vdHAuY29tIDEPMA0GA1UE DQwGQ0xJRU5UMIIBIjANBgkqhkiG9w0BAQEFAAOCAQ8AMIIBCgKCAQEA93xh7W89 iwe0x9qKvDHBYDZneX97Nt3zMzQemNUhzMRyeo0qghVyQOhJOzmmFSWluLz9V2gg I4qFFjudx4irR3ycPRnMFXIfdf3DV3nwSmnYAYx7LX1/5rDY3yiQXzb3NRA5U5JP 7SAL8Utw0mSAOCnkiKohsA9fZTU+hv8fC2c6Pn9BfnKe68yhxgCJlvNT9zfT+q1Y blfs/mnWptrdEbCdprFzS3uEvqVAHE/hEtS35kQGxHhZTmGMzGYAotdiDpC8vUwP ofv3gpDPwQulxg1g+DI54XMPDM/nBLUSMktwYhC/102nLJuvGxr1kJCgLAcuKEd1 UIBkH3RTjrzVLwIDAQABo4G1MIGyMAsGA1UdDwQEAwIF4DATBgNVHSUEDDAKBggr BqEFBQcDAjBIBqqrBqEFBQcBAQRZMFcwIwYIKwYBBQUHMAGGF2h0dHA6Ly8xMC4x MC4xLjIyL29jc3AvMDAGCCsGAQUFBzAChiRodHRwOi8vMTAuMTAuMS4yMi9jYWNI cnQvP2Zvcm1hdD1kZXIwJwYDVR0fBCAwHjAcoBqgGIYWaHR0cDovLzEwLjEwLjEu MjIvY3JsLzANBgkghkiG9w0BAQsFAAOCAQEAhgXuX1RZoJ0fmySF4aRQ9ngNLlly GU+mgsHJw1BCGIWt5a893yZIMrPS/mN5DTU1jeN4gtqiZDTf3fDTmI79a5S+ZcO2 hfH55JmMDvp4UKXqOl8Ye2VpBubUVs/ZJdCTRiUYPAIIzU38WP7OZOvKC6QvuBHY F+XWFD5GsIIVKNDds4gFkUDphcY2AgOKYGO9y8m+WTsJfQIaYiQBWnEHacuC1Mzy FS/I9nFBmUVVyxiwy2Ch4BETgbGUfsSubIPDCbyuX7uofuqKExjaknNQM26/Lx6W av+mYfvwENvywokel8f57b90UZ9/ZWDIMQvuAge4Kdj/kNif/p7uXYV+ZQ== -----END CERTIFICATE-----

3.3.2 API Key generation

Instead of using an SSL certificate, you have the option to utilize an API key, which can serve as an alternative for secure communication between your Windows machine and the OpenOTP cloud infrastructure. One advantage of using an API key is that it potentially does not have an expiration date if you choose not to set one when issuing it.

By opting for an API key, you can establish a secure connection without the need to manage certificate expirations. However, it's important to note that the API key should be treated with the same level of security as a certificate, as it grants access to the OpenOTP cloud infrastructure.

When using an API key, ensure that it is securely stored and only accessible to authorized individuals. Follow the necessary procedures to generate and configure the API key within the OpenOTP Credential Provider, adhering to the security guidelines provided by RCDevs.

Please refer to the relevant documentation for the specific steps to generate and utilize an API key as an alternative to SSL

3.4 OpenOTP Credential Provider for Windows configuration

When installing the OpenOTP-CP plugin for Windows with OpenOTP Cloud, we recommend following the instructions below to ensure a successful configuration:

- Avoid setting the OpenOTP-CP plugin as the default plugin on your Windows machine until you have confirmed that your configuration is working correctly. Otherwise, you may encounter login process issues, preventing access to your Windows machine. This is the first step of the installer where you choose the components that you want to install. Keep default values will not enforce OpenOTP-CP as default provider. Enable Credential Provider Filter will enforce the OpenOTP-CP as default authentication provider. Be careful!
- 2. Enable the "Offline mode" setting to allow login when the Windows computer cannot establish a connection with the OpenOTP service.
- 3. Disable the "Remote LDAP password check" setting to ensure that password validation occurs solely on the Windows side. Otherwise, you will need to synchronize passwords between your LDAP infrastructure and OpenOTP Cloud.

You can find detailed instructions for the entire configuration in the <u>OpenOTP Credential Provider for Windows</u> documentation. The primary difference lies in the inclusion of either a "client certificate" or an "API key" as new requirements. On the initial page, you will need to provide the minimum information, which is the WebADM server URL. Typically, this URL points to your WebADM tenant URL. If you have selected the Auto mode (recommended), enter your tenant URL and click the <u>Configure</u> button. The Server URL setting must be afterward auto-completed with the whole OpenOTP URLThe Server URL setting will automatically be populated with the complete OpenOTP URL. Provide any additional information if needed and click <u>Next</u> to proceed.

RCDevs OpenOTP-CP (64 bit) Setup	×			
Configuration 1/5				
Setup server URLs, default domain, login text and client ID	security solutions			
	· ·			
Auto Manual				
WebADM URL:				
https://fdn6jl.eu1.openotp.com/	Configure			
Server URL: (mandatory)				
	0			
additional Server URL: (optional)	-			
 agin Tayte (antional)	•			
Work Resources				
	U			
Loading Text: (optional)				
	U			
Client ID: (optional)				
	0			
	Next			
Back	Next Cancel			

At this step, the Certificate Authority file must be auto-completed, and you need to generate a client certificate or issue an API key from WebADM and place it here. Here is an example with a client certificate.

RCDevs OpenOTP-CP (64 bit) Setup				
Configuration 2/5				
Setup security using a PKI.				
Client and server authentication settings.				
Certificate Authority File (optional) :				
C:\Program Files\RCDevs\OpenOTP Credential Provider\ca.				
Client authentication O API key Certificate 				
Certificate File (optional) :				
gram Files\RCDevs\ObenOTP Credential Provider\cert-v.crt				
Certificate Password: (optional)				
Confirm Password:				
Back Next Cancel				

On the page 3/5, enable the offline mode setting and configure other settings that you want to enable, then click Next button. On the next page, set Remote LDAP password check to No. If you are using local accounts on Windows side, then please refer to the following documentation to achieve a working setup.

RCDevs OpenOTP-CP (64 bit) Setup	×
Configuration 4/5	DC Dove
Setup Credential Provider infos	
Authentication Form (optional) :	
Simple (Default)	~ (
Password Tile Image (*.bmp - 72px X	72px) (optional) :
Http Proxy Host and Port (optional) :	
Remote LDAP Password Check:	
No	• • • • • • • • • • • • • • • • • • •
Auto Create Local Accounts :	
No (Default)	
	Select groups
	Rack Next Cancel
	Dack Next Callel

Once the configuration is finished click **Next** then **Install**. Once the installation is performed successfully, you can try to perform a login.

A RDP logins

Note that the RDP login with MFA to the machine where the plugin has been installed and configured will not be prompted until the Credential Provider is enforced as default provider on that machine. Test first the local login, if the local login is working fine, then you can enforce the CP as default provider and try the RDP login with MFA.

Once the login has been performed, you can check the logs from WebADM GUI > Databases > WebADM Shared Event Logs:

[2023-05-19 15:31:54] [10.10.2.2:45662] [OpenOTP:G22GEZ08] New openotpNormalLogin SOAP request [2023-05-19 15:31:54] [10.10.2.2:45662] [OpenOTP:G22GEZ08] > Username: administrator [2023-05-19 15:31:54] [10.10.2.2:45662] [OpenOTP:G22GEZ08] > Domain: SUPRCDEVS [2023-05-19 15:31:54] [10.10.2.2:45662] [OpenOTP:G22GEZ08] > LDAP Password: xxxxxxxxxxx [2023-05-19 15:31:54] [10.10.2.2:45662] [OpenOTP:G22GEZ08] > Context ID: kCjLzPTD3FBJNg0N4XHoTfYUIV3I1qQc [2023-05-19 15:31:54] [10.10.2.2:45662] [OpenOTP:G22GEZ08] > Options: NOVOICE, -LDAP [2023-05-19 15:31:54] [10.10.2.2:45662] [OpenOTP:G22GEZ08] > Virtual: preferredLanguage=EN [2023-05-19 15:31:54] [10.10.2.2:45662] [OpenOTP:G22GEZ08] Registered openotpNormalLogin request [2023-05-19 15:31:54] [10.10.2.2:45662] [OpenOTP:G22GEZ08] Resolved LDAP user: cn=administrator,ou=TARIK,ou=WebADMs (cached) [2023-05-19 15:31:54] [10.10.2.2:45662] [OpenOTP:G22GEZ08] Started transaction lock for user [2023-05-19 15:31:54] [10.10.2.2:45662] [OpenOTP:G22GEZ08] Found user language: EN [2023-05-19 15:31:54] [10.10.2.2:45662] [OpenOTP:G22GEZ08] Found 47 user settings: LoginMode=OTP,OTPType=TOKEN,PushLogin=Yes,ChallengeMode=Yes,ChallengeTimeout=90,OTPLength=6 1:HOTP-SHA1-6:QN06-T1M,U2FPINMode=Discouraged,SMSType=Normal,SMSMode=Ondemand,MailMode=Ondemand,PrefetchExp [2023-05-19 15:31:54] [10.10.2.2:45662] [OpenOTP:G22GEZ08] Found 5 user data: TokenType,TokenKey,TokenState,TokenID,TokenSerial [2023-05-19 15:31:54] [10.10.2.2:45662] [OpenOTP:G22GEZ08] Found 1 registered OTP token (TOTP) [2023-05-19 15:31:54] [10.10.2.2:45662] [OpenOTP:G22GEZ08] Requested login factors: OTP [2023-05-19 15:31:54] [10.10.2.2:45662] [OpenOTP:G22GEZ08] Authentication challenge required [2023-05-19 15:31:54] [10.10.2.2:45662] [OpenOTP:G22GEZ08] Sent push notification for token #1 (session qiAWhyZppV722coQ) [2023-05-19 15:31:54] [10.10.2.2:45662] [OpenOTP:G22GEZ08] Waiting 28 seconds for mobile response [2023-05-19 15:32:07] [10.10.2.1:8950] [OpenOTP:G22GEZ08] Received mobile login response from 213.135.242.3 [2023-05-19 15:32:07] [10.10.2.1:8950] [OpenOTP:G22GEZ08] > Session: giAWhyZppV722coQ [2023-05-19 15:32:07] [10.10.2.1:8950] [OpenOTP:G22GEZ08] > Password: 16 Bytes [2023-05-19 15:32:07] [10.10.2.1:8950] [OpenOTP:G22GEZ08] Found authentication session started 2023-05-19 15:31:54 [2023-05-19 15:32:07] [10.10.2.1:8950] [OpenOTP:G22GEZ08] PUSH password Ok (token #1) [2023-05-19 15:32:07] [10.10.2.2:45662] [OpenOTP:G22GEZ08] Updated user data [2023-05-19 15:32:07] [10.10.2.2:45662] [OpenOTP:G22GEZ08] Sent login success response

3.5 Advanced configuration

For advanced configuration of OpenOTP Credential Provider for Windows and detailed explanations, have a look on the product documentation.

3.6 Troubleshooting

If you encounter any issues with the integration, we recommend following these steps to troubleshoot and resolve the problem:

1. Check the WebADM server logs: To identify the root cause of the issue, examine the logs generated by the WebADM server. The

logs may provide valuable information about the specific error or misconfiguration that is causing the problem.

2. Refer to the <u>troubleshooting documentation</u>: For step-by-step instructions on resolving common integration issues, consult the troubleshooting documentation. This resource is designed to assist you in diagnosing and resolving problems that may arise during the integration process.

By reviewing the WebADM server logs and utilizing the troubleshooting documentation, you can effectively identify and address any issues that may be impacting the integration of OpenOTP-CP for Windows with OpenOTP Cloud.

4. SAML/OpenID

There is no significant change for OpenID/SAML integrations with RCDevs cloud edition software. Please refer to the RCDevs Identity Provider documentation to setup your service provider with RCDevs cloud solutions.

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