

Configuring Identity & Authentication Providers

AppGateSDP Access, evolved.

Cyxtera proprietary

Training Topics

Next...

We will take you through adding users to AppGate.

Topics:

Identity Types

Secondary Authentication

Demo: One Time Passwords

Local Users

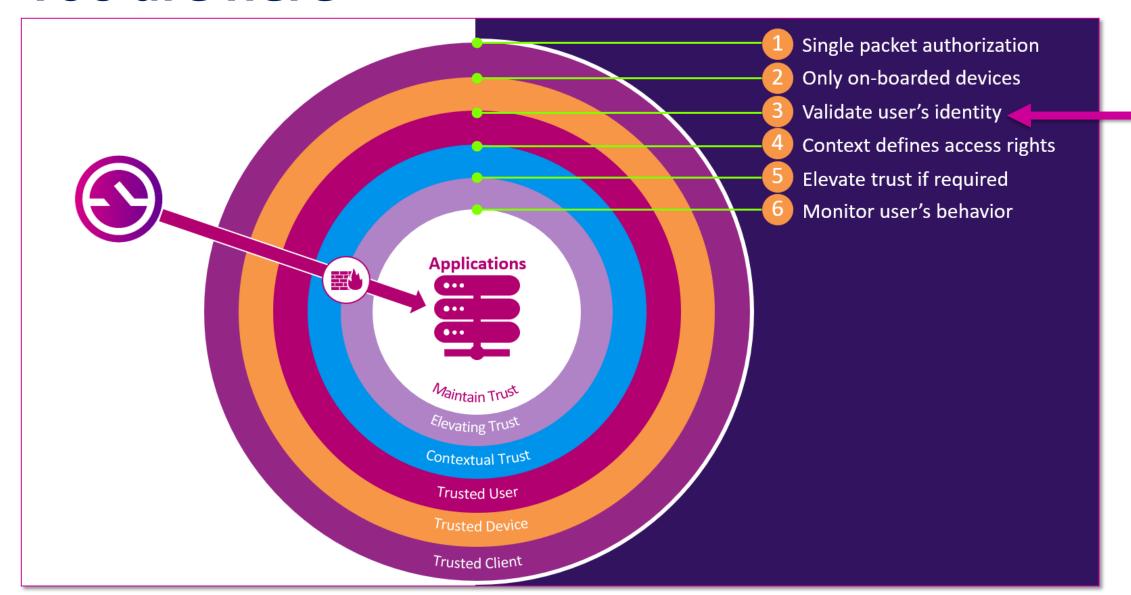
Active Directory/Radius

Demo: Onboarding

Lab: Creating a Policy for AD users

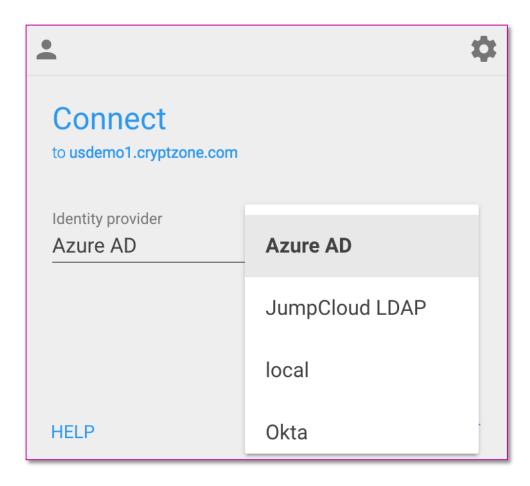


You are here



User Sources

- Built-in
 - Local user accounts
- Integrated
 - LDAP/Active Directory
 - Radius
 - SAML



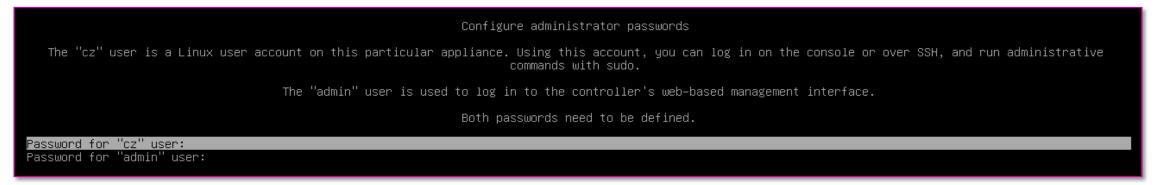
Identity Provider (IdP)

- Validates login information
 - Username & Passwords, Certificates.
- Built-in IdP for local users
- SAML, LDAP, LDAP with Certificate and Radius support
- Source for user claims
 - Attributes such email, groups, age, location are mapped as claims
- Admin can configure attribute mapping



Local user database

- During installation, two users are created
 - cz (ssh)
 - admin (GUI access via TCP 444)





```
A ssh cz@192.168.42.111

Authorized uses only. All activity may be monitored and reported.

cz@192.168.42.111's password:

Last login: Tue Feb 6 08:34:35 2018

Welcome to Ubuntu 16.04.3 LTS (GNU/Linux 4.10.0-35-generic x86_64)

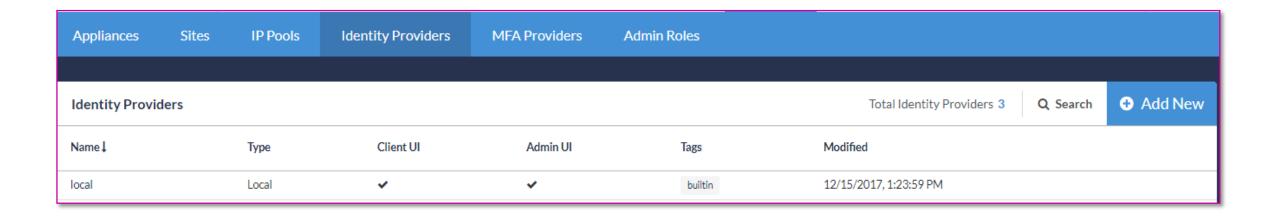
AppGate 3.2.2-7203-release (image1)

Hint: run 'sudo cz-setup' for appliance management.

cz@sdp1:~$ whoami
cz
```

Local user database (Cont.)

- Users can be added/managed/removed locally
- Often used for admin accounts
- Has the same capabilities as external IdPs
- Best Practice: add admins (see <u>Admin Guide Admin Roles</u>)





External user database

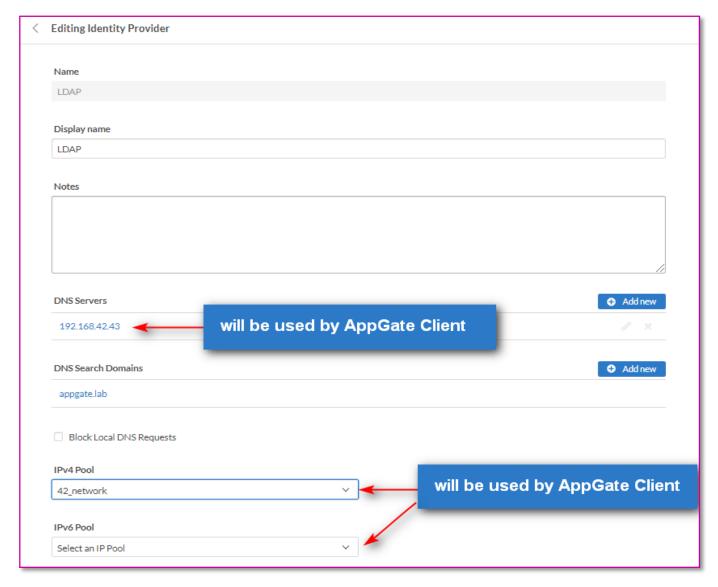
- AppGate supports
 - LDAP/Active Directory (AD)
 - Radius
 - Security Assertion Markup Language (SAML)

Appliances	Sites	IP Pools	Identity Providers	MFA Providers	Admin Roles		
Identity Providers Total Iden						Total Identity Providers 3 Q Search	Add New
Name↓		Туре	Client UI	Admin UI	Tags	Modified	
local		Local	~	~	builtin	12/15/2017, 1:23:59 PM	
LDAP		Ldap	~	~		12/15/2017, 2:35:27 PM	
Free-Radius		Radius	•	•		4/12/2018, 1:28:55 PM	

External user database

- AppGate SDP Supports
 - LDAP/Active Directory (AD)
 - Radius
 - Security Assertion Markup Language (SAML)

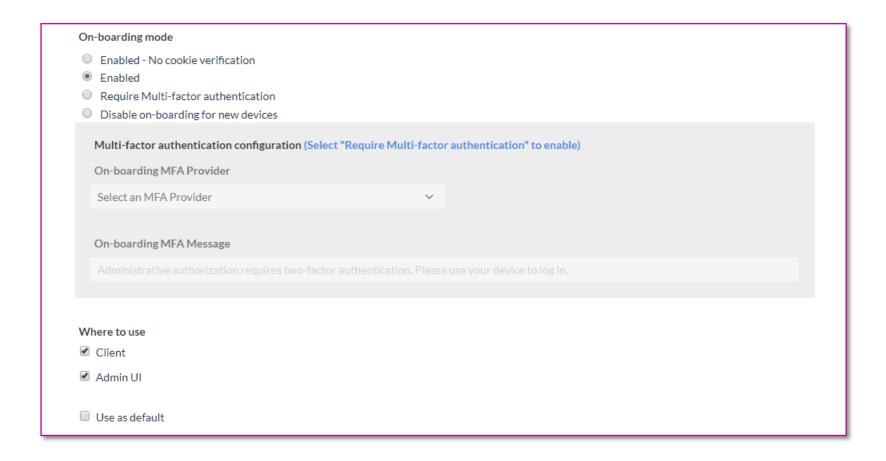
External user database – LDAP/AD



External user database – LDAP/AD cont'd

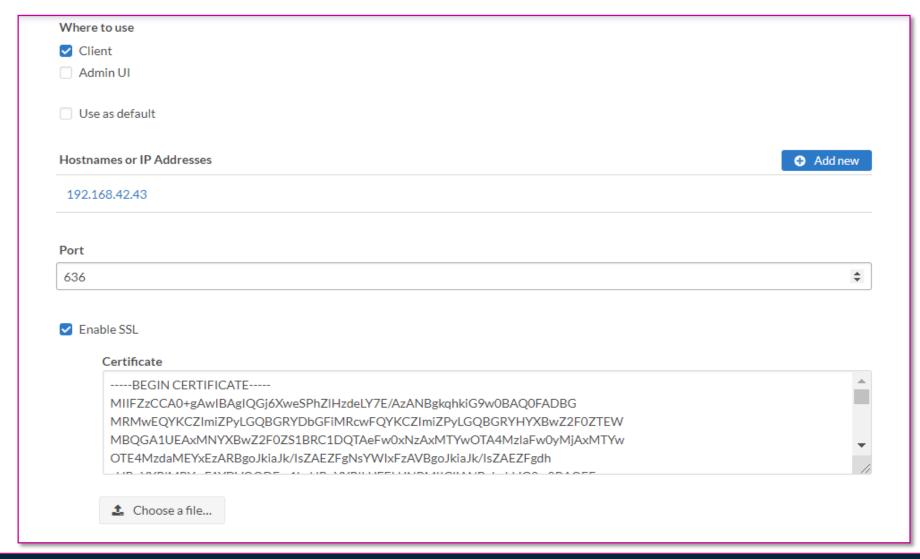
Required items

- On-boarding Mode
- Where to use

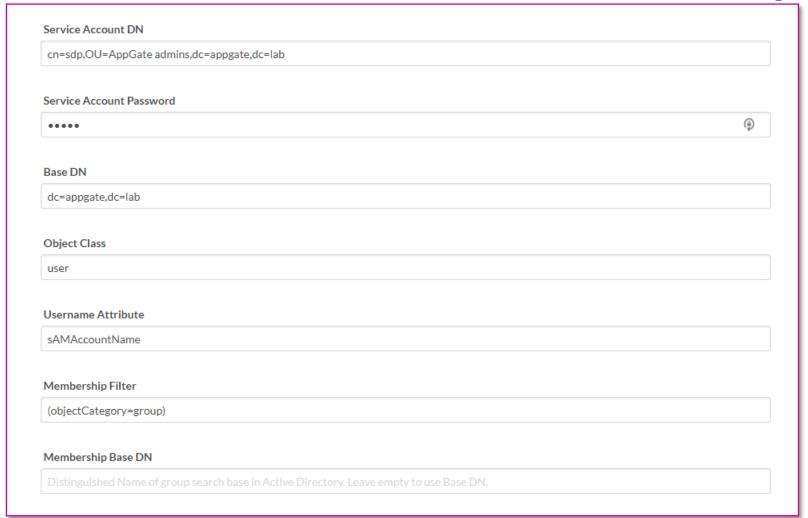


External user database – LDAP/AD cont'd

LDAPS (recommended) is supported via X.509 Certificate



External user database - LDAP/AD cont'd

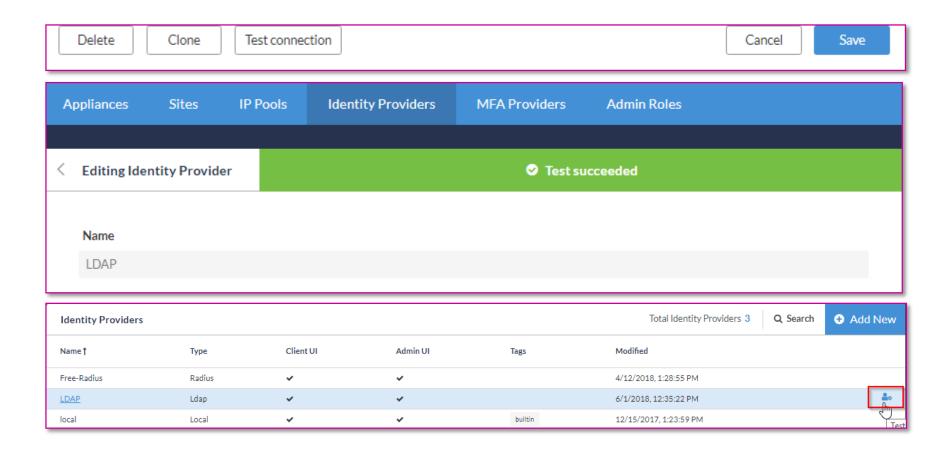


External user database – LDAP/AD cont'd

Test your access!

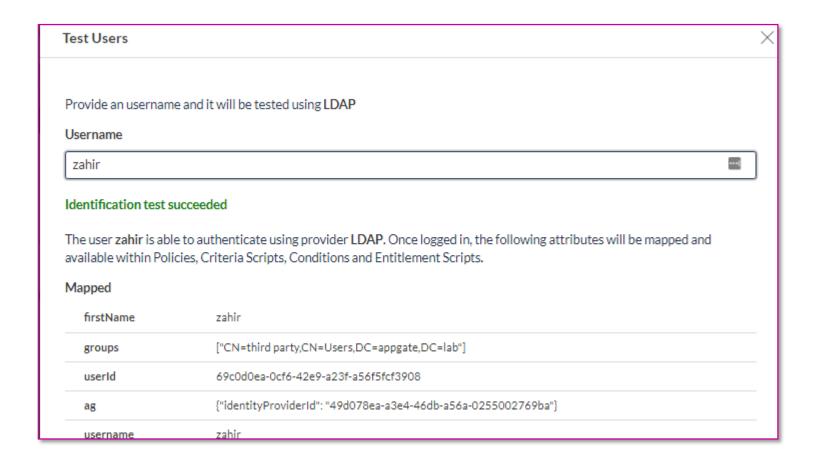
1. LDAP(S)

2. Test a User



External user database – LDAP/AD cont'd

Test your access!



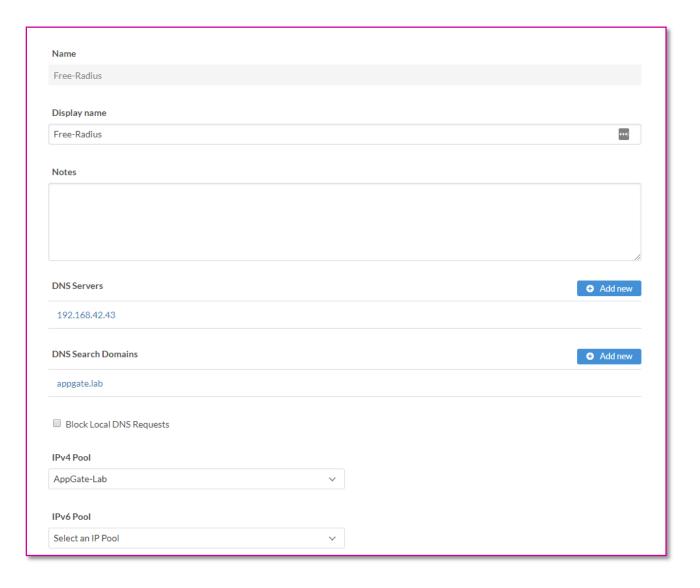
External user database

AppGate SDP supports

- LDAP/Active Directory (AD)
- Radius
- Security Assertion Markup Language (SAML)

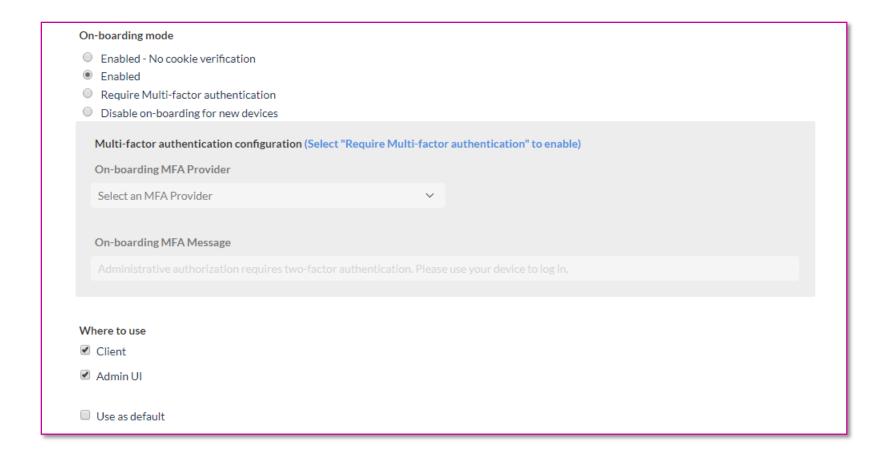
Required items:

- Name/Display Name
- DNS
- IP Pool



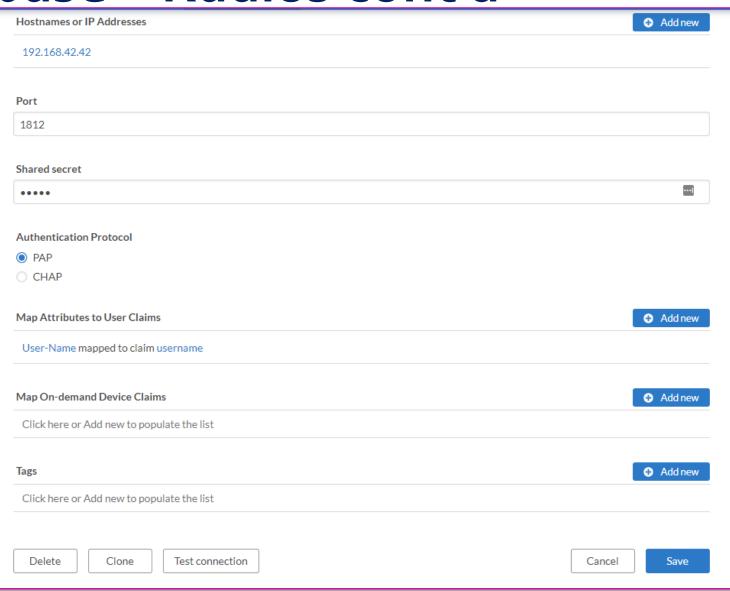
Required items

- On-boarding Mode
- Where to use

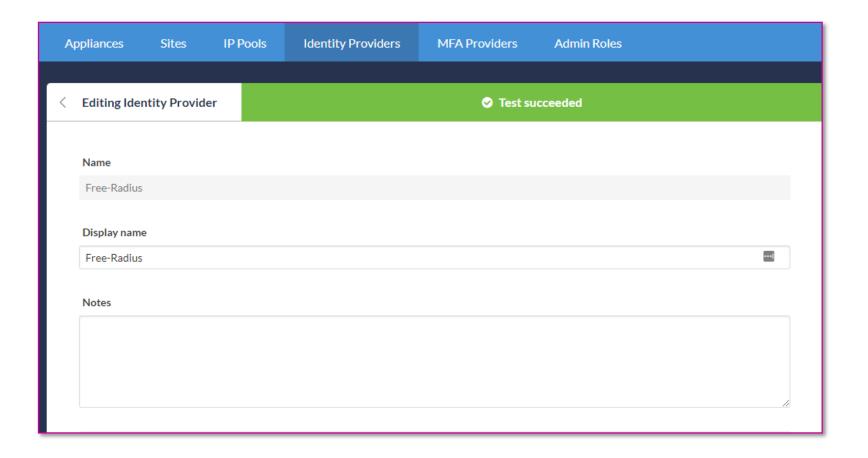


Required items

- Hostname/IP
- Shared Secret
- Authentication protocol



Test your access!





Device On-Boarding

- Configured per IdP
 - One group of users (admins)
 might be allowed to use any
 devices while others require onboarded devices
- Controls the inventory of allowed devices
- Controller sends a cookie to the device
 - Added Security with optional 2FA allows self-registration
- Environment lockdown possible



Device On-Boarding (Cont'd)

- Enabled No cookie verfication
 - Controller will send another cookie if the client doesn't have one
- Enabled
 - First login, controller will silently send the cookie
 - Controller will require cookie in following connections
- 2FA Required
 - First login, controller will require 2FA to send the cookie
- Disabled
 - Controller will not issue any new cookie
 - Existing cookies will work
- Cookies stored on OS User Context
 - Credential manager or Keychain





Multi-Factor Authentication Providers

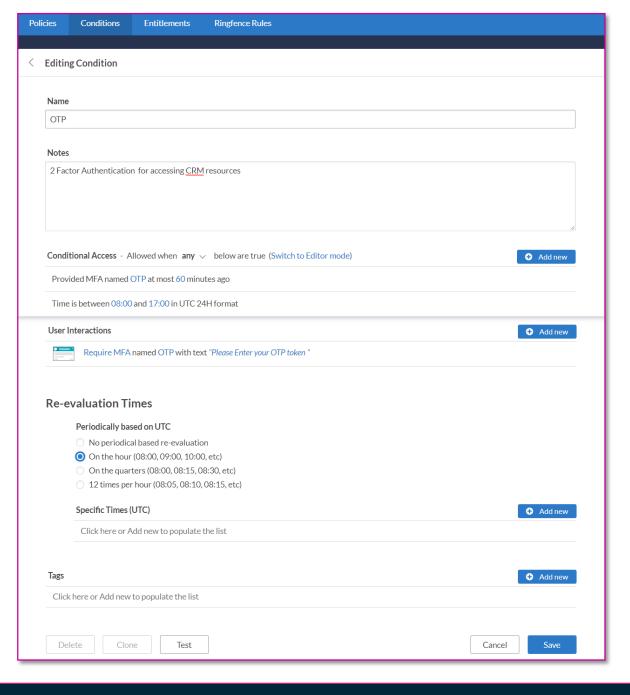
- Validates MFA input
- Built-in Time Based OTP and Radius support
- Not full Radius implementation?
 - But works with Nordic Edge, SecurID

Built-in Time Based OTP

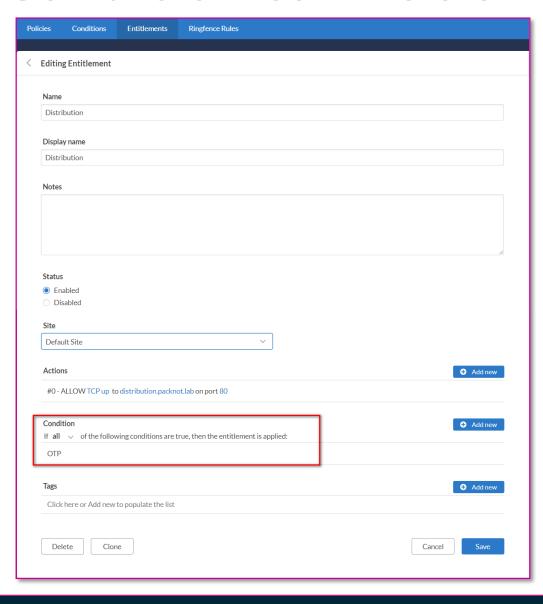
- SDP has a built-in time-based OTP
- 30 seconds window to enter OTP
 - https://time.is good way to check sync
- Compatible with almost every OTP app
 - Google Authenticator, Microsoft Authenticator, 100x other app
- Max drift between OTP device and system (5 min)



Setup MFA Provider

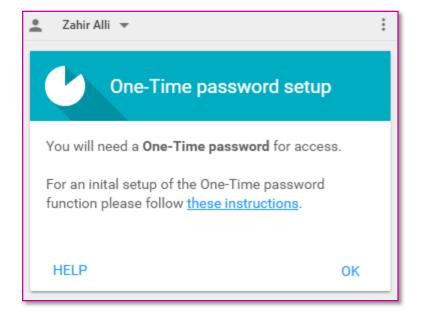


Attach OTP Condition to Entitlement



Verify OTP Condition

Connect with the AppGate SDP Client









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AppGateSDP

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