

Cloudbrink How-To Guide: Publish an App to a User Group

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Introduction

Cloudbrink adheres to zero trust network access (ZTNA) philosophy. This means that simply deploying a Brink Connector into your data center or cloud environment does not allow network access to applications within that environment. A Cloudbrink administrator must specifically allow users or user groups to access a given application. This document walks you through publishing an application to a user (group) to permit access to that application.

Prerequisites

In order to successfully follow this documentation, please ensure the following prerequisites are met:

- 1.1. An Identity Provider (IDP) has been registered in your Cloudbrink Enterprise Portal
- 1.2. **If** publishing an internal application, a Brink Connector has been deployed in your data center or cloud environment
- 1.3. A Cloudbrink account with Super-Admin or Delegated-Admin privileges

Instructions

Login

- 2.1. Navigate to <https://admin.cloudbrink.com>, and enter your **email** to be redirected to your organization's identity provider **login**.

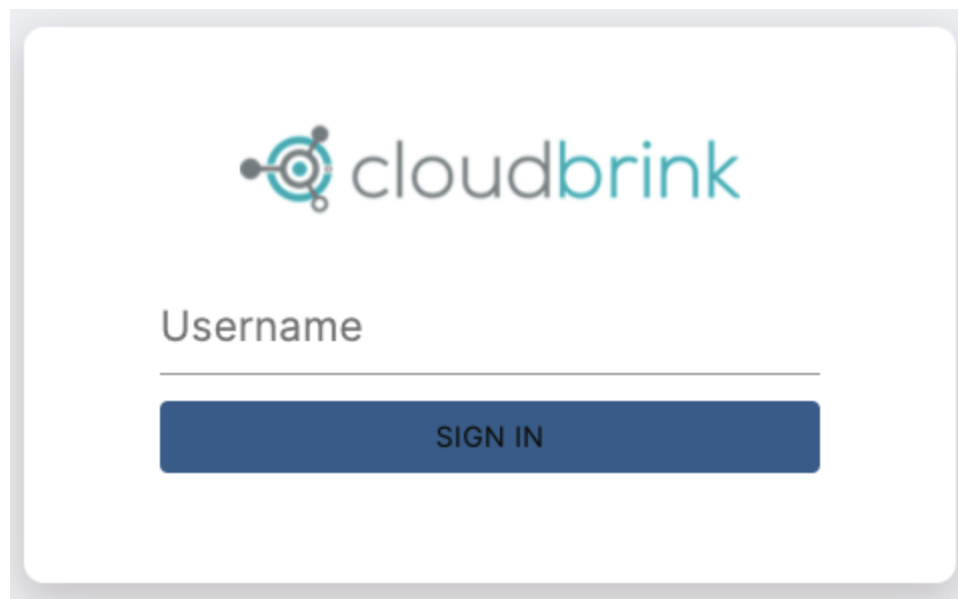


Figure 1: Cloudbrink Portal Login

- 2.2. After a successful login you'll be redirected to the Cloudbrink Dashboard.

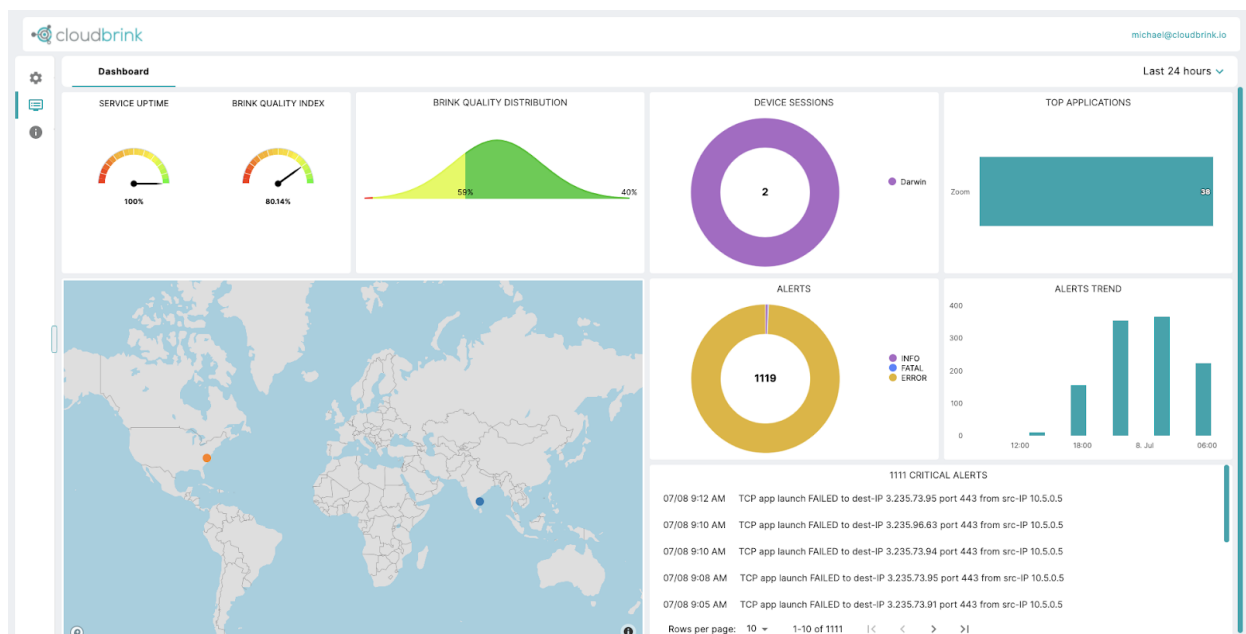


Figure 2: Cloudbrink Portal Dashboard

Creating a User Group

As mentioned above, Cloudbrink adheres to zero trust network access principles. In order to assign a user group to an application, the user group must first be defined within the Cloudbrink portal. This user group must exactly match the name of the user group in your associated identity provider.

- 3.1. In the upper left corner of the Cloudbrink Portal, click either the **Gear Icon** or the **Configure** button (depending on whether the left menu is collapsed or expanded, respectively)

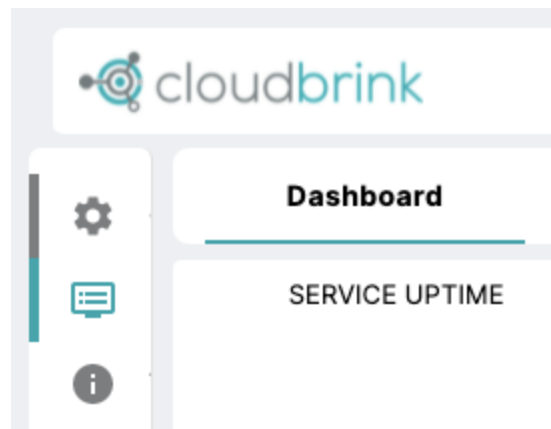


Figure 3: Gear Icon

- 3.2. There will be four tabs along the top on the page that appears, leave the default **User Groups** tab selected

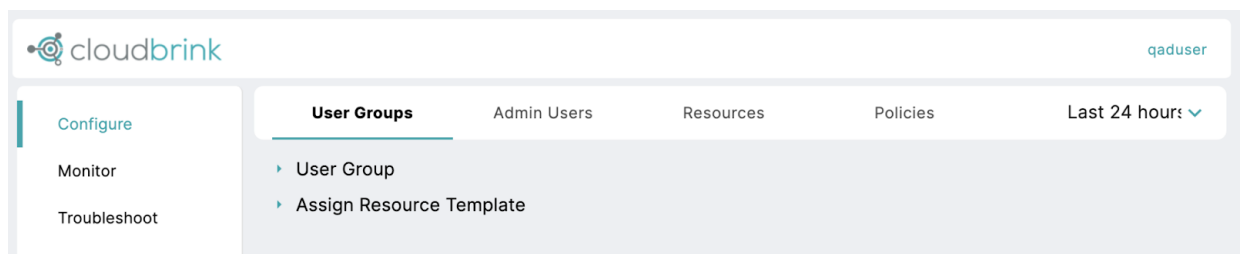


Figure 4: Configure: User Groups

- 3.3. Expand the **User Group** section, and then click the **teal +** icon

User GroupsAdmin UsersResourcesPoliciesLast 24 hours

User Group

User Groups 7

USER GROUP	USER GROUP DESCRIPTION
qaducaas	QAD ucaas group
qadsplit	split for adaptive
qaducaasvpn	qad adaptive enabled with v4 and v6
qadv6v4full	qad with v4v6 full tunnel
tstgroup	testing group
testgrp2	new testing group
qadfull	qad adaptive grp

Assign Resource Template

Figure 5: User Groups: User Group

- 3.4. In the configuration pane that appears, fill in the following information and then click the ✓ icon:
- 3.4.1. **User Group:** the *exact* name of the user group in your identity provider
 - 3.4.2. **User Group Description:** a friendly description of the user group

New User Group		✓	🗑️
USER GROUP	it-users		
USER GROUP DESCRIPTION	IT Users at Organization		

Figure 6: User Group Creation

Application and Enterprise Services

Under the **Configure: Resources** section of the Cloudbrink Portal, you'll notice two entities which have many similarities, **Application Services** and **Enterprise Services**. Customer administrators new to Cloudbrink often ask the difference between these two resources, and it comes down to how the resource is able to be accessed: public internet or via a Connector?

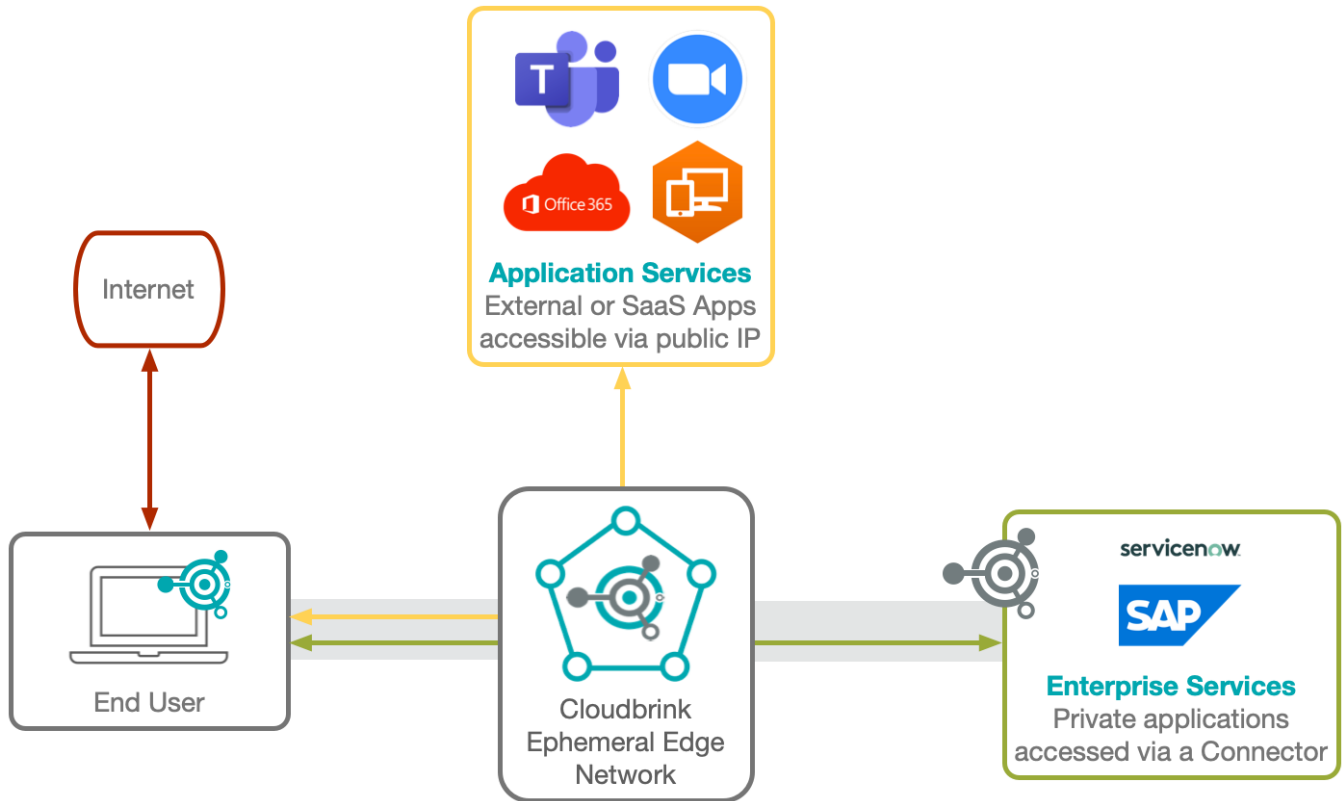


Figure 7: Application Services vs Enterprise Services

Application Services are typically external or SaaS apps that are managed via a third party, and are able to be accessed via the public internet. Enterprise Services are resources that can only be accessed through a Cloudbrink Connector, and typically reside in the customer's on-premises data center or cloud environment.

Create an Application Service

An **application service** in the Cloudbrink context is a publicly accessible application (often provided by a third party), and publishing this application to a user group ensures Cloudbrink applies quality of experience (QoX) optimizations to the application traffic.

Some of the most common third party applications are automatically created for every Cloudbrink customer for convenience. If you've already created an application in the Cloudbrink Portal or plan on only using the pre-created applications, skip ahead to the **Create a Resource Template** section to assign the app to a user group.

- 4.1. In the upper left corner of the Cloudbrink Portal, click either the **Gear Icon** or the **Configure** button (depending on whether the left menu is collapsed or expanded, respectively)

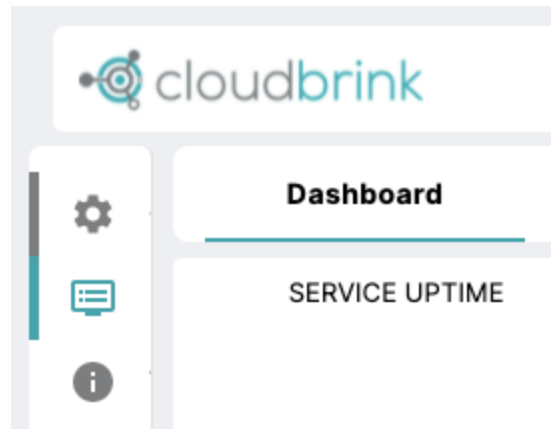


Figure 8: Gear Icon

4.2. On the page that appears, click the **Resources** tab

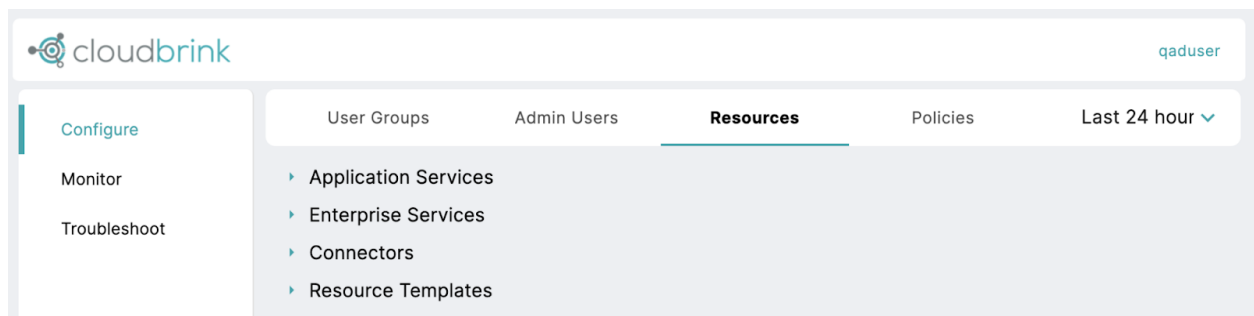


Figure 9: Configure: Resources

4.3. On the page that appears, expand the **Application Services** section, and click the **teal +** button

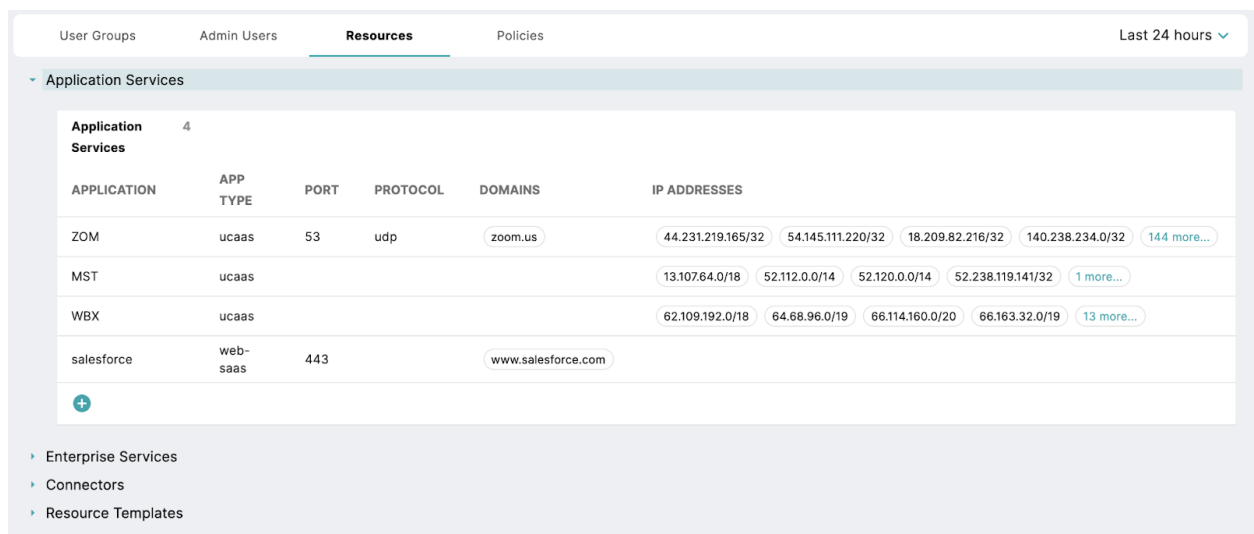
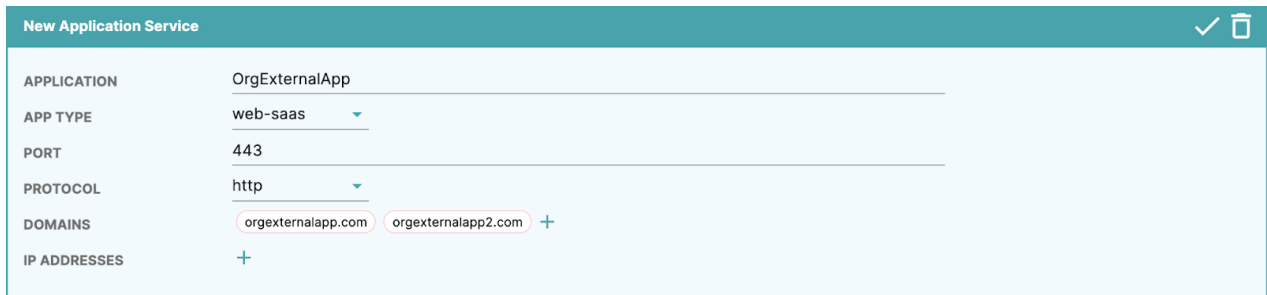


Figure 10: Resources: Application Services

- 4.4. In the configuration pane that appears, fill in the following information and then click the **✓ icon**:
 - 4.4.1. **Application**: a friendly name for this application
 - 4.4.2. **App Type**: select **UCaaS** for unified communication applications, or **Web-SaaS** for all other applications
 - 4.4.3. **Port**: the port used for this application (optional)
 - 4.4.4. **Protocol**: the protocol used for this application (udp, tcp, or http)
 - 4.4.5. **Domains**: any number of fully qualified domain names of this application (at least one domain or IP address must be entered)
 - 4.4.6. **IP Addresses**: any number of IP addresses of this application (at least one domain or IP address must be entered)



New Application Service	
APPLICATION	OrgExternalApp
APP TYPE	web-saas
PORT	443
PROTOCOL	http
DOMAINS	orgexternalapp.com orgexternalapp2.com +
IP ADDRESSES	+

Figure 11: Application Service Creation

Create an Enterprise Service

An **enterprise service** is an individual application in your data center or cloud environment, or internal network(s) that you wish end users to access. For instance, you could add an enterprise service which represents an individual, internally hosted web application (for example 10.0.1.10/32), or an individual network (for example 10.0.1.0/24), or a group of networks (for example 10.0.1.0/24 and 10.0.128.0/20).

Publishing an enterprise service requires a Brink Connector, and ensures both quality of experience (QoX) optimizations and end-to-end security through mTLS. If you've already created an enterprise service in the Cloudbrink Portal, and are looking to assign the enterprise service to a user group, skip ahead to the next section.

- 5.1. In the upper left corner of the Cloudbrink Portal, click either the **Gear Icon** or the **Configure** button (depending on whether the left menu is collapsed or expanded, respectively)

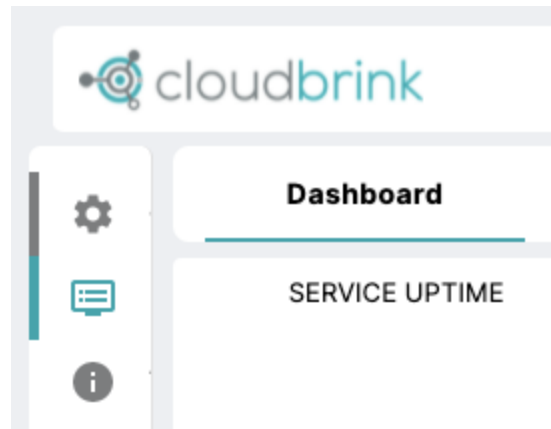


Figure 12: Gear Icon

- 5.2. On the page that appears, click the **Resources** tab

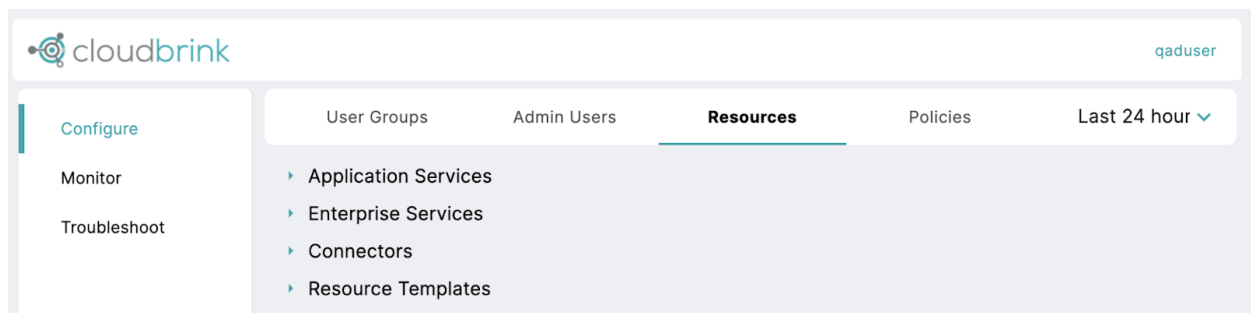


Figure 13: Configure: Resources

- 5.3. On the page that appears, expand the **Enterprise Services** section, and click the **teal +** button

User GroupsAdmin UsersResourcesPoliciesLast 24 hours

Application Services

Enterprise Services

Enterprise Service 6

NAME	DOMAIN	BRINK VNET
QADNS	fleed.ad	10.1.1.0/2410.1.2.0/2410.1.3.0/2410.1.4.0/241 more...
split-ns-1	fleed.ad	10.1.1.0/2410.1.2.0/2410.1.3.0/2410.1.4.0/241 more...
ipv4andv6-ns-01	brinkv6.com	10.1.1.0/242001:db8:abcd:12::/64
qad-adiabl-v4v6-ns-02	brinkv6.com	10.1.1.0/242001:db8:abcd:12::1/64
ipv6-dhcp-ns-01	secondv6.com	0.0.0.0/0::/0
default-adaptive-ns-01	secondv6.com	0.0.0.0/0::/0
+		

Connectors

Resource Templates

Figure 14: Resources: Enterprise Services

- 5.4. In the configuration pane that appears, fill in the following information and then click the ✓ icon:
- 5.4.1. **Name:** a friendly name for this enterprise service
 - 5.4.2. **Domain:** one or more domain names to enable end-users to access the resource(s) in question via hostname(s)
 - 5.4.3. **Brink Vnet:** one or more IPs or network addresses and subnet masks of the resource, in CIDR notation

New Enterprise Service

NAME

myinternalapp

DOMAIN

example.com +

BRINK VNET

10.0.1.10/32 +

Figure 15: Enterprise Service Creation

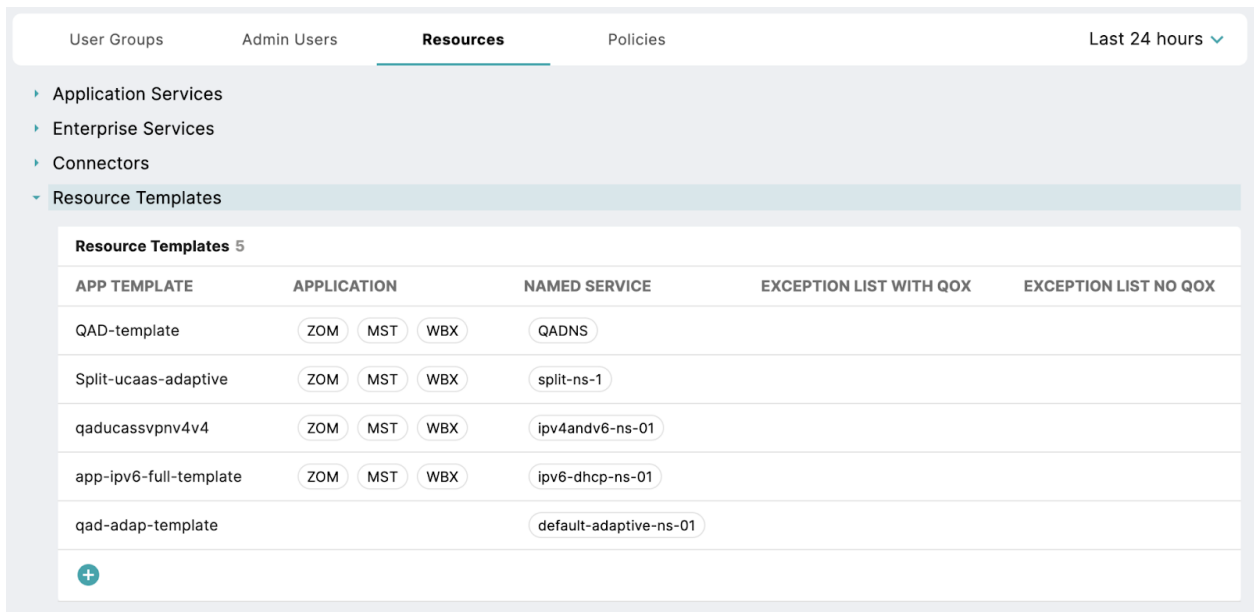
Create a Resource Template

Resource Templates are a way to logically group a set of application and/or enterprise services, based on a set of similar characteristics. For example, you may want to group all unified communication applications into the same resource template. Or you may want to group a set of applications utilized

by your Sales or Engineering teams. A single application or enterprise service can be in any number of resource templates.

Once these resources are grouped together in a resource template, you can assign the resource template to a user group for access. If you've already created a resource template in the Cloudbrink Portal, and are looking to assign the app to a user group, skip ahead to the next section.

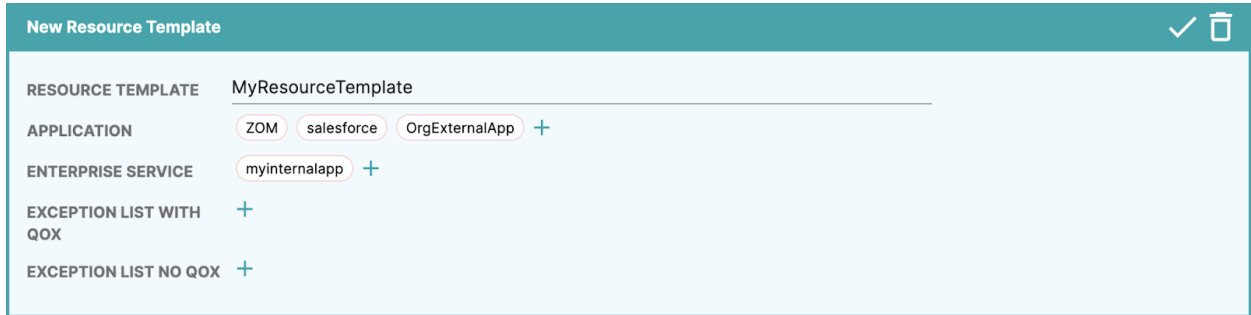
- 6.1. If you're not already in the **Configure: Resources** section, click the **Gear Icon** in the upper left corner of the portal, and in the page that appears click the **Resources** tab.
- 6.2. Expand the **Resource Templates** section and click the **teal +** button.



User Groups Admin Users Resources Policies				
Last 24 hours ▼				
<ul style="list-style-type: none"> Application Services Enterprise Services Connectors Resource Templates 				
Resource Templates 5				
APP TEMPLATE	APPLICATION			NAMED SERVICE
				EXCEPTION LIST WITH QOX
				EXCEPTION LIST NO QOX
QAD-template	ZOM	MST	WBX	QADNS
Split-ucaas-adaptive	ZOM	MST	WBX	split-ns-1
qaducassvpnv4v4	ZOM	MST	WBX	ipv4andv6-ns-01
app-ipv6-full-template	ZOM	MST	WBX	ipv6-dhcp-ns-01
qad-adap-template				default-adaptive-ns-01
+				

Figure 16: Resources: Resource Templates

- 6.3. In the configuration pane that appears, fill in the following information and then click the **✓ icon**:
 - 6.3.1. **Resource Template**: a friendly name for this resource template
 - 6.3.2. **Application**: optionally select one (or more) application services to be part of this app template
 - 6.3.3. **Enterprise Service**: optionally select one (or more) enterprise services to be part of this app template
 - 6.3.4. **Exception List with QoX**: optionally select one (or more) application services to override an enterprise service definition and instead have the application traffic split at the Brink Edge rather than be carried to the Connector (useful for default route 0.0.0.0/0 use cases)
 - 6.3.5. **Exception List No QoX**: optionally select one (or more) application services to override an enterprise service definition and instead have the application traffic split at the end-user device rather than be carried to the Connector, meaning the application traffic is not handled by Cloudbrink at all (useful for default route 0.0.0.0/0 use cases)



New Resource Template ✓ 🗑️

RESOURCE TEMPLATE

APPLICATION ZOM salesforce OrgExternalApp +

ENTERPRISE SERVICE myinternalapp +

EXCEPTION LIST WITH QOX +

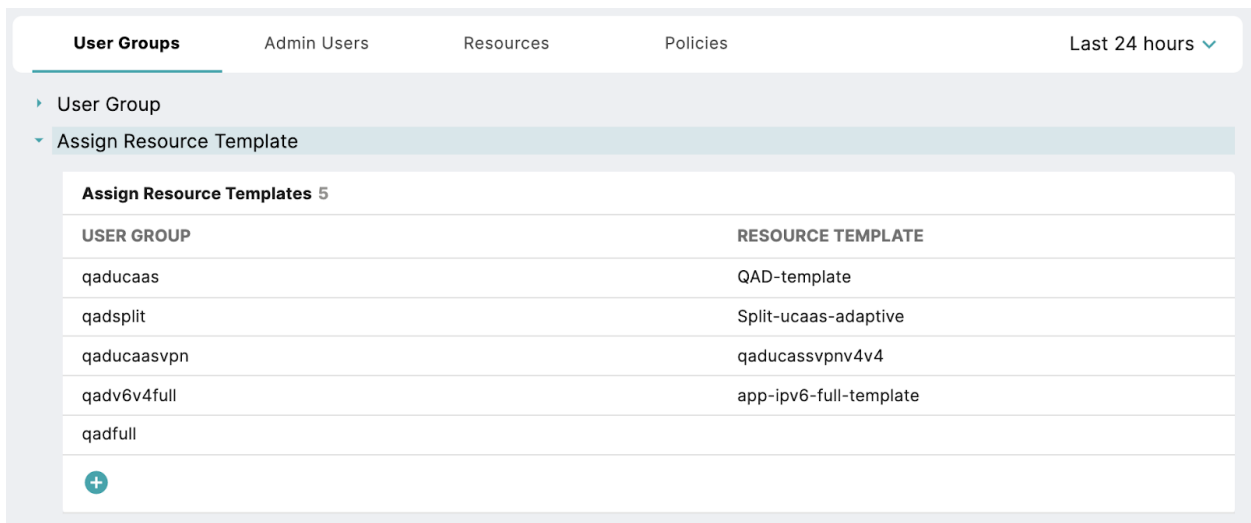
EXCEPTION LIST NO QOX +

Figure 17: Create Resource Template

Assign Resource Template to User Group

Now that we have created our resource template (or a group of applications or enterprise services), we're ready to assign it to a user group. This enables users that are members of the group to access the applications and enterprise services which belong to the resource template.

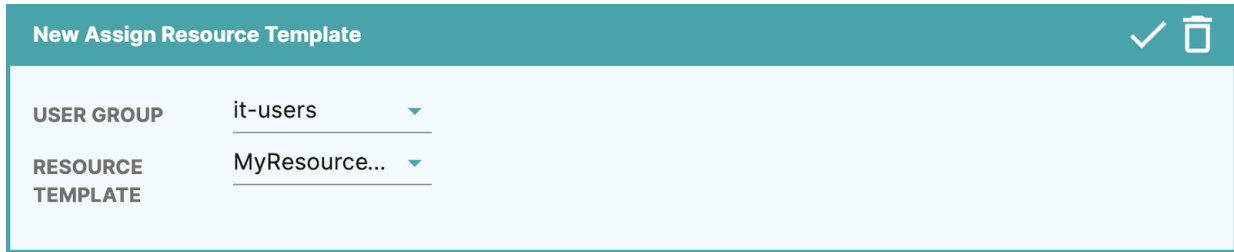
- 7.1. If you're not already in the **Configure** section, click the **Gear Icon** in the upper left corner of the portal, and in the page that appears click the **User Groups** tab
- 7.2. Expand the **Assign Resource Template** section and click the **teal +** button.



User Groups		Admin Users	Resources	Policies	Last 24 hours ▼
▶	User Group				
▼	Assign Resource Template				
Assign Resource Templates 5					
USER GROUP	RESOURCE TEMPLATE				
qaducaas	QAD-template				
qadsplit	Split-ucaas-adaptive				
qaducaasvpn	qaducassvpn4v4				
qadv6v4full	app-ipv6-full-template				
qadfull					
+					

Figure 18: User Groups: Assign Resource Templates

- 7.3. In the **Assign Resource Template** pane that appears, fill in the following information and then click the **✓** icon:
 - 7.3.1. **User Group:** select the previously created User Group which requires access to the Resource Template
 - 7.3.2. **Resource Template:** select the previously created Resource Template



New Assign Resource Template	
USER GROUP	it-users
RESOURCE TEMPLATE	MyResource...

Figure 19: Assign Resource Template

Published Application Validation

- 8.1. In a workstation of a user that belongs to the previously configured user group, either start the Cloudbrink App, or if already running, restart the Cloudbrink App to pick up the new resource template configuration
- 8.2. Using a web browser (or your custom application client), enter in the FQDN or IP address of an application that's part of the previously configured resource template
- 8.3. Ensure the application is accessible