Tenant

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Get started

import { Render, TabItem, Tabs } from "~/components";

Having access to Cloudflare's provisioning capabilities allows you to more easily create and manage Cloudflare accounts. The following steps will get you started on making API calls to provision accounts, users, and services.

Before you begin

Channel and Alliance partner account setup

Before using the Tenant API, you need to create an account, verify your email address, and add your billing information.

After you sign your partner agreement with Cloudflare, Cloudflare will add certain entitlements to your account that allow you to provision and manage custom accounts. If you have signed your partner agreement and your account has not yet been enabled, MSP partners should contact `partners@cloudflare.com` and Agency Partners should contact `agency@cloudflare.com`.

API access

You also need to retrieve your API key to authenticate your requests to the Tenant API.

For more details on using the Cloudflare API, refer to our API overview.

Step 1 - Create an account

Step 2 - Grant user access

Now that you have created an account, you need to either give your customer direct access to Cloudflare or build an interface for them to interact with.

The first method gives customers control over all aspects of Cloudflare, while the latter allows you to integrate your customer's Cloudflare experience into a dashboard that you control and that they may already be familiar with.

Option 1 - Direct access to Cloudflare

When you grant user access to an account, Cloudflare will send an invitation to the user so they can get access to the account. If they do not already have a Cloudflare user, Cloudflare will take them through the process of creating one. Once created, they will be given access to the account and any zones already created.

Using the dashboard

If you want to give customers access to their individual accounts, it is the same as if you were inviting a teammate to help manage your account.

Using the API

You can also grant access to the Cloudflare dashboard by using the API.

```
curl 'https://api.cloudflare.com/client/v4/accounts/<CUSTOMER_ACCOUNT_ID>/members' \
--header "X-Auth-Email: <EMAIL>" \
--header "X-Auth-Key: <API_KEY>" \
--header "Content-Type: application/json" \
--data '{
  "email": "<CUSTOMER_EMAIL>",
  "roles": ["<USER_ROLE>"]
}'
```

In most cases, you will want to create new users with a role of `Administrator` which always has the ID `05784afa30c1afe1440e79d9351c7430`.

If your customer is on an Enterprise plan, they have access to a broader set of user roles. To get a full list of available roles, send a `GET` request to the API.

Option 2 - Access via an interface

If you want greater control over how customers use Cloudflare or if you want your customers to use an existing dashboard of yours that they already know, use the Cloudflare API to build this experience.

This means that you will be making API calls to Cloudflare on behalf of your customers. To avoid getting rate limited by our API, Cloudflare recommend that you create accounts and users for each of your customers. Changes made by customer `A` should go through user `A` and changes made by customer `B` should go through user `B`.

:::note

This capability is not enabled by default. If you need this functionality, contact Cloudflare Support.

:::

To grant access via an interface, you need to create a service user, as no one will log in to the dashboard with them. If you are planning to use this method, Cloudflare will enable you to see the API key in order to make API calls as this user.

```
curl "https://api.cloudflare.com/client/v4/users" \
--header "X-Auth-Email: <EMAIL>" \
--header "X-Auth-Key: <API_KEY>" \
--header "Content-Type: application/json" \
--data '{
  "email": "<ID@example.com>"
}'
```


```
{
  "result": {
    "id": "60758bd48392a06215ae817bc35084b6",
    "email": "<ID@example.com>",
    "first_name": null,
    "last_name": null,
    "username": "17bd2796b374cec14976ac3bced85c05",
    "telephone": null,
    "country": null,
```

```
□□"created_on": "2019-02-21T23:20:28.645256Z",
□□"modified_on": "2019-02-21T23:20:28.645256Z",
□□"two_factor_authentication": {
□□□"enabled": false,
□□□"locked": false
□□},
□□"api_key": "xxx"
□},
□"success": true,
□"errors": [],
□"messages": []
}
```


Step 3 - Create a zone

Now that you have a customer account and customer users (or service users), you need to create a zone.

To do this, send a `POST` request to the `/zones` endpoint (including the customer account ID you received in Step 1).

```
curl "https://api.cloudflare.com/client/v4/zones" \
--header "X-Auth-Email: <EMAIL>" \
--header "X-Auth-Key: <API_KEY>" \
--header "Content-Type: application/json" \
--data '{
  "name": "example.com",
  "account": {
    "id": "<CUSTOMER_ACCOUNT_ID>"
  }
}'
```

Step 4 - Create a zone plan subscription

Now that you have a zone provisioned for the customer, you can add the appropriate zone plan based on your reseller agreement.

Step 5 - Create other subscriptions

Depending on your agreement, you may be allowed to resell other add-on services. These are provisioned as account-level subscriptions.

Step 6 - Configure zone and services

Once you have added the necessary subscriptions, you or your customer can move on to configuring various services and fine-tuning account and zone settings.

Configuration can be done by anyone with access to the account (as well as the correct user permissions). This process does not differ from configuring any other Cloudflare account. For additional guidance, refer to our Product docs.

Glossary

import { Render } from "~/components";

The following terms are used throughout the Tenant API docs. For more details on how these concepts interact with each other, refer to Tenant structure.

Tenant

Tenant admin

Account

User

Resource

Cloudflare Tenant

The Cloudflare Tenant API is a provisioning mechanism to help Channel and Alliance partners set up and manage Cloudflare accounts and services for their customers.

These APIs are built into our Client v4 API library to provide a streamlined onboarding and setup experience.

Available resources

As you dive into the Tenant API, take advantage of the following resources:

- Tenant structure explains some basic ideas behind the Tenant API and how it works.
- Get started provides the quickest path to get your customer accounts up and running.
- How to offers step-by-step instructions for specific tasks.
- Reference topics contains detailed information about the Tenant API, including a list of available zone and account-level subscriptions.

Tenant structure

import { Render } from "~/components";

Cloudflare helps Channel and Alliance partners manage their and their customers' accounts through a Tenant structure.

Partner accounts contain a tenant, which is a container for customer accounts and zones. For more

Tenants and Tenant admins

Accounts, users, and resources

This Tenant structure gives your account streamlined administrative access to customer:

- Accounts[^1]
- Users[^2]
- Resources[^3]

At the same time, this structure keeps your customers' data and settings separate from each other.

Get account details

```
import { Render } from "~/components";
```

Get tenant details

```
import { Render } from "~/components";
```

How to

import { DirectoryListing } from "~/components"

Manage accounts

import { Render, TabItem, Tabs } from "~/components";

Create account

View accounts

When you create an account with the Tenant API, your Cloudflare user owns that account from creation, ongoing management, and finally deletion.

To view any accounts owned by your tenant using the dashboard:

1. Log into the Cloudflare dashboard.
2. Go to **Tenants** > **Managed Accounts**.

To fetch any accounts owned by your tenant using the API, send a `GET` request to the `/accounts` endpoint.

You will get back a list of all the accounts you have created plus any accounts your user already had access to.

```
curl https://api.cloudflare.com/client/v4/accounts \
--header "X-Auth-Email: <EMAIL>" \
--header "X-Auth-Key: <API_KEY>"
```

```
{
  "result": [
    {
      "id": "a34bd6cc645a31486aa2ef71f1b9afb6",
      "name": "My Personal Account",
      "settings": {
        "enforce_twofactor": false
      }
    },
    {
      "id": "1b16db169c9cb7853009857198fae1b9",
      "name": "Created Account",
      "settings": {
        "enforce_twofactor": false
      }
    }
  ],
  "result_info": {
    "page": 1,
    "per_page": 20,
    "total_pages": 1,
    "count": 2,
    "total_count": 2
  },
  "success": true,
  "errors": [],
  "messages": []
}
```


Update account

To update an account, send a `PUT` request to the `/accounts/{account_id}` endpoint.

Delete account

To delete an account you have created, send a `DELETE` request to the `/accounts/{account_id}` endpoint.

Account deletion is permanent and will delete any zones or other resources under the account.

:::caution[Some resources require manual deletion] The following resources are **not** automatically deleted when you delete an account and must be removed manually beforehand:

- **Logpush jobs**: Will continue delivering logs after account deletion.
- **Zero Trust Gateway configurations**: May continue resolving DNS queries after account deletion.

To ensure complete cleanup, delete these resources before deleting the account by calling the following endpoints in sequence:

1. Delete Zero Trust Gateway configuration:

```
curl --request DELETE \
https://api.cloudflare.com/client/v4/accounts/{account_id}/gateway \
--header "X-Auth-Email: <EMAIL>" \
--header "X-Auth-Key: <API_KEY>"
```

2. Delete Access organization:

```
curl --request DELETE \
https://api.cloudflare.com/client/v4/accounts/{account_id}/access/organizations \
--header "X-Auth-Email: <EMAIL>" \
--header "X-Auth-Key: <API_KEY>"
```

3. Then delete the account (see below). :::

```
curl --request DELETE \
https://api.cloudflare.com/client/v4/accounts/{account_id} \
--header "X-Auth-Email: <EMAIL>" \
--header "X-Auth-Key: <API_KEY>"
```

A successful request will return the id to confirm the operation:


```
{
  "result": {
    "id": "1b16db169c9cb7853009857198fae1b9"
  },
  "success": true,
  "errors": [],
```

```
"messages": []
}
```

Manage subscriptions

import { Render } from "~/components";

Once your customer has a zone provisioned, you can add zone and account-level subscriptions.

Zone subscriptions

Create zone subscription

Get zone subscription details

To get the details of a zone subscription, send a `GET` request to the `/zones/<ZONE_ID>/subscription` endpoint.

Update zone subscription

To update a subscription on a zone, typically used to update an existing subscription's 'component_values' or to downgrade a zone's subscription, send a `PUT` request to the `/zones/<ZONE_ID>/subscription` endpoint.

Account subscriptions

Depending on your agreement, you may be allowed to resell other add-on services. These are provisioned as account-level subscriptions.

Create account subscription

Get account subscription details

To get all subscriptions for an account, send a `GET` request to the `/accounts/<ACCOUNT_ID>/subscriptions` endpoint.

Update account subscription

To update a subscription on an account, send a `PUT` request to the `/accounts/<ACCOUNT_ID>/subscriptions/<SUBSCRIPTION_ID>` endpoint.

Delete account subscription

To delete a subscription on an account, send a `DELETE` request to the `/accounts/<ACCOUNT_ID>/subscriptions/<SUBSCRIPTION_ID>` endpoint.

Reference

import { DirectoryListing } from "~/components"

Available subscriptions

When provisioning services for an account, you need to include certain values with each API call to specify a particular service.

The subscriptions available to you will vary depending on your current partner program (Agency Partner Program or Enterprise Resellers and MSP Program).

The following values are samples and not exhaustive. For the complete list of subscription values available to you, make an API call to the zone subscriptions or account subscriptions endpoints.

Zone plans

When creating or updating a zone plan, Partners can use one of the following values for the `id` of the `rate_plan` field (which controls the zone-level plan subscription).

Partner program	Available subscriptions
Enterprise and self-serve resellers	`PARTNERS_FREE`, `PARTNERS_PRO`, `PARTNERS_BIZ`, `PARTNERS_ENT`
Agency partners	`CF_FREE`, `CF_PRO_20_20`, `CF_BIZ`
MSP partners	`msp_biz`

Other subscriptions

When you create an account subscription, it provisions an add-on service for that account.

Zero Trust subscriptions

The following table lists sample values for various Zero Trust subscriptions.

Feature	Subscription IDs
Access	`PARTNERS_ACCESS_BASIC`, `PARTNERS_ACCESS_ENT`, `PARTNERS_ACCESS_PREMIUM`, `TEAMS_ACCESS_ENT`, `TEAMS_ACCESS`

Feature	Subscription IDs
Gateway	`TEAMS_GATEWAY_ENT`, `TEAMS_GATEWAY`
Cloudflare Zero Trust	`TEAMS_ENT`, `TEAMS_FREE`, `TEAMS_STANDARD`

Developer subscriptions

The following table lists sample values for various Developer platform subscriptions.

Feature	Subscription IDs
Images	`IMAGES_ENT`, `IMAGES_BASIC`
Image transformations	`IMAGE_RESIZING_ENT`, `IMAGE_RESIZING_BASIC`
Stream	`PARTNERS_STREAM_ENT`, `PARTNERS_STREAM_BASIC`, `STREAM_BASIC`
Workers	`PARTNERS_WORKERS_ENT`, `WORKERS_PAID`, `PARTNERS_WORKERS_SS`, `PARTNERS_WORKERS_BASIC`

Application performance and security

The following table lists sample values for various application performance and security subscriptions.

Feature	Subscription IDs
API Shield	`API_SHIELD_ZONE`
Advanced certificate manager	`ADVANCED_CERT_MANAGER_FREE`, `ADVANCED_CERT_MANAGER`
Argo smart routing	`PARTNERS_ZONE_ARGO`, `ARGO_ZONE_BASIC`
Ethereum gateway	`WEB3_ETHEREUM_ENT`, `WEB3_ETHEREUM_ENT_CONTRACT`, `WEB3_ETHEREUM_ENT_PAYGO`
IPFS gateway	`WEB3_IPFS_ENT`, `WEB3_IPFS_ENT_CONTRACT`, `WEB3_IPFS_ENT_PAYGO`
Load balancing	`PARTNERS_LOAD_BALANCING`, `PARTNERS_LOAD_BALANCING_ENT`, `LOAD_BALANCING_BASIC_PLUS`
Rate limiting	`PARTNERS_RATE_LIMITING`
Spectrum	`PARTNERS_SPECTRUM`
Waiting Room	`WAITING_ROOMS_BASIC`, `WAITING_ROOMS_ADV`

Network services

The following table lists sample values for various network services subscriptions.

Feature	Subscription IDs
Cloudflare Network Firewall	`MAGIC_FIREWALL_BASIC`, `MAGIC_FIREWALL_ADVANCED`
Cloudflare WAN	`MAGIC_WAN`

Getting new subscriptions

If your reseller plan does not have access to a specific subscription, you will receive the following error when making an API call:

```
"errors": [
        {
            "code": 1225,
            "message": "Your account does not have access to this product. Contact
billing@cloudflare.com for assistance."
        }
]
```

To change your program or - in some cases - get a specific subscription added to your reseller plan, contact `partners@cloudflare.com`. Agency Partners should contact agency@cloudflare.com