

Documentation

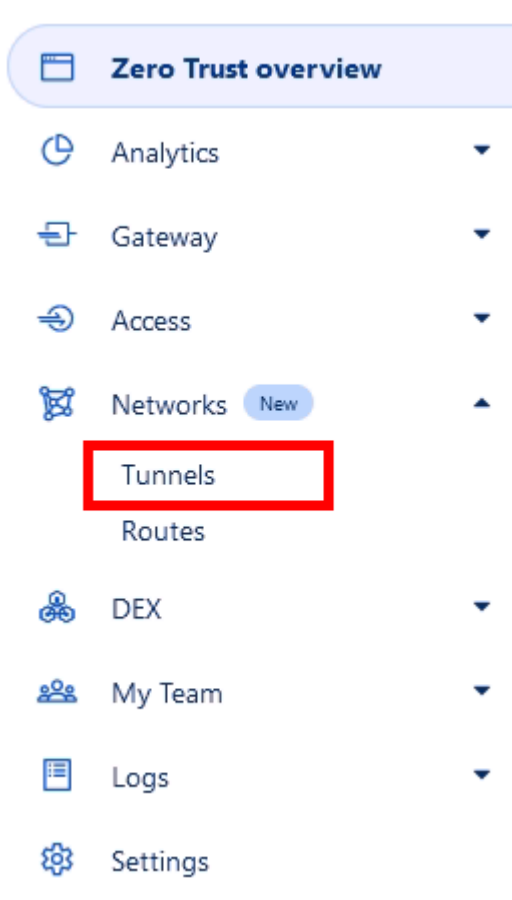
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Docker Compose Deployments

Backup Architecture

Cloudflare Tunnel Configuration

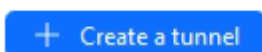
1. Navigate and sign in to the [Cloudflare Zero Trust dashboard](#).
2. Using the sidebar, navigate to `Networks -> Tunnels`.



3. Click the blue 'Create a tunnel' button.

Your tunnels *Showing 1 - 1*

Manage the configurations of your existing tunnels.



4. Select the default 'Cloudflared' connector type, and then click 'Next'.


Select your connector

Choose the method used to connect your resources to Cloudflare's global network.

Cloudflared

Recommended


Establishes a secure, outbound-only connection to Cloudflare for user-to-network connectivity.

 [Learn more](#)

WARP Beta

Linux distros only

Supports on-ramping and off-ramping traffic for site-to-site, bidirectional, and mesh networking connectivity.

 [Learn more](#)

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[Next](#)

5. Give the tunnel a name, then click 'Save tunnel'.

Name your tunnel

Use a descriptive name based on the network you want to connect. We recommend creating only one tunnel for each network.

Tunnel name (Required)

gitea

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[Save tunnel](#)

You will then be presented with a list of connector installation options.

6. Copy the token and use it with your preferred connector. For Docker instructions, see [Docker Compose Template](#)

Install and run a connector

To connect your tunnel to Cloudflare, copy-paste one of the following commands into a terminal window. Remotely managed tunnels require that you install cloudflared 2022.03.04 or later.

ⓘ **Store your token carefully.** This command includes a sensitive token that allows the connector to run. Anyone with access to this token will be able to run the tunnel. ✕

```
$ docker run cloudflare/cloudflared:latest tunnel --no-autoupdate run --token eyJhIjoizD...
```

[View Frequently Asked Questions](#) ↗

8. Once connected, your connector should appear at the bottom of the page. Click 'Next'.

Connectors

Connector ID	Status	Version
a3497c42-e0dd-473f-9362-0b7edf21ddb4	Connected	2024.4.0

9. Finally, assign your service a subdomain, and point it to the backend.

Add public hostname for test

Public hostname

Subdomain

gitea

Domain (Required)

3t.network

Path

(optional) path

Service

Type (Required)

HTTP

URL (Required)

gitea:3000

For example, https://localhost:8001

[Additional application settings](#) ▶

Please note, when using Docker networking (as per [Docker Compose Template](#)), there is no requirement to 'expose' the port with a port mapping. You can use the name of the container, as defined in the `docker-compose.yml` file with the appropriate listening port.

Docker Compose Template

Guidelines

These guidelines are suggested in order to maximise reliability of hosted services.

- Store secrets and tokens in a `.env` file adjacent to the `docker-compose.yml` file.
 - The environment variables are automatically interpolated when `docker compose up` is called.
 - If multiple `.env` files are required (for separation of secrets), then use `.env.<CONTAINER_NAME>` (e.g. `.env.gitea`) and add an override in the `docker-compose.yml` file. See the [Docker documentation](#) for more details.
- Always use tagged images.
 - Avoid using `latest`. By default, Docker hub automatically tags the most recently pushed image as `latest`, unless overridden by the image maintainer. This means that you might be running bleeding edge/alpha/vulnerable versions.
 - Often images expect a specific version of a container to be running in order for DB migrations to work. This is especially important with Postgres where major versions are not always forwards compatible.
- Separate frontend and backend services using different networks.
 - Docker Compose manages the creation/destruction of these networks for you. Please see the examples below.
- Volumes should be placed in a volumes directory adjacent to the `docker-compose.yml` file.
 - Prefix volume directories with the name of the container.
 - See the directory structure below for an example.
- Mount `/etc/timezone` and `/etc/localtime` where timestamps are used by the container.
 - See below for an example.

An example directory structure is shown below:

```
.
├── .env.db
├── .env.gitea
├── .env.tunnel
├── docker-compose.yml
├── start.sh
└── volumes/
```



```
├─ gitea_config/
│  └─ ...
├─ gitea_data/
│  └─ ...
└─ postgres_data/
   └─ ...
```

See [Cloudflare Tunnel Configuration](#) for instructions on how to configure a tunnel and get a tunnel token.

Gitea

.env.db

```
POSTGRES_USER=gitea
POSTGRES_PASSWORD=gitea
POSTGRES_DB=gitea
```

.env.gitea

```
GITEA__database__DB_TYPE=mysql
GITEA__database__HOST=db:3306
GITEA__database__NAME=gitea
GITEA__database__USER=gitea
GITEA__database__PASSWD=gitea
```

.env.tunnel

```
TUNNEL_TOKEN=abc...
```

docker-compose.yml

```
services:
  tunnel:
    image: cloudflare/cloudflared:2024.4.0    # Use version tags to ensure only stable software is used.
    restart: unless-stopped                 # This restart command helps with crashing services.
```

```
command: tunnel run
depends_on:
  - gitea                # Ensure dependencies start in the correct order.
networks:
  - frontend              # Use multiple networks to isolate services.
env_file:
  - .env.tunnel           # Use environment variables loaded via a .env file for tokens.
gitea:
  image: gitea/gitea:1.21-rootless
  restart: unless-stopped
  healthcheck:             # Use healthchecks if possible.
    test: curl --fail http://localhost:3000/api/healthz || exit 1
    interval: 60s
    retries: 5
    start_period: 20s
    timeout: 10s
  depends_on:
    - db
  networks:
    - frontend
    - backend
  volumes:
    - './volumes/gitea_data:/var/lib/gitea' # Mount volumes into the ./volumes directory.
    - './volumes/gitea_config:/etc/gitea'   # Relative volumes must be wrapped in single quotes.
    - '/etc/timezone:/etc/timezone:ro'      # Mount timezone/localtime so that timestamps are correct.
    - '/etc/localtime:/etc/localtime:ro'
  env_file:
    - .env.gitea
db:
  image: postgres:14
  restart: unless-stopped
  healthcheck:
    test: ["CMD-SHELL", "pg_isready", "-d", "db_prod"]
    interval: 60s
    retries: 5
    start_period: 20s
    timeout: 10s
  networks:
    - backend
  volumes:
    - './volumes/postgres_data:/var/lib/postgresql/data'
```

env_file:

- .env.db

networks:

backend:

frontend: