

Kubernetes+Cloudflared でトラブった話！！

NTSK

自己紹介

NTSK にとすけと読みます

♥→Debian

立川某所のゲームセンターに生息しています

HolloをKubernetes (k0s) で動かしている

<https://in-deep.blue/archives/1256>

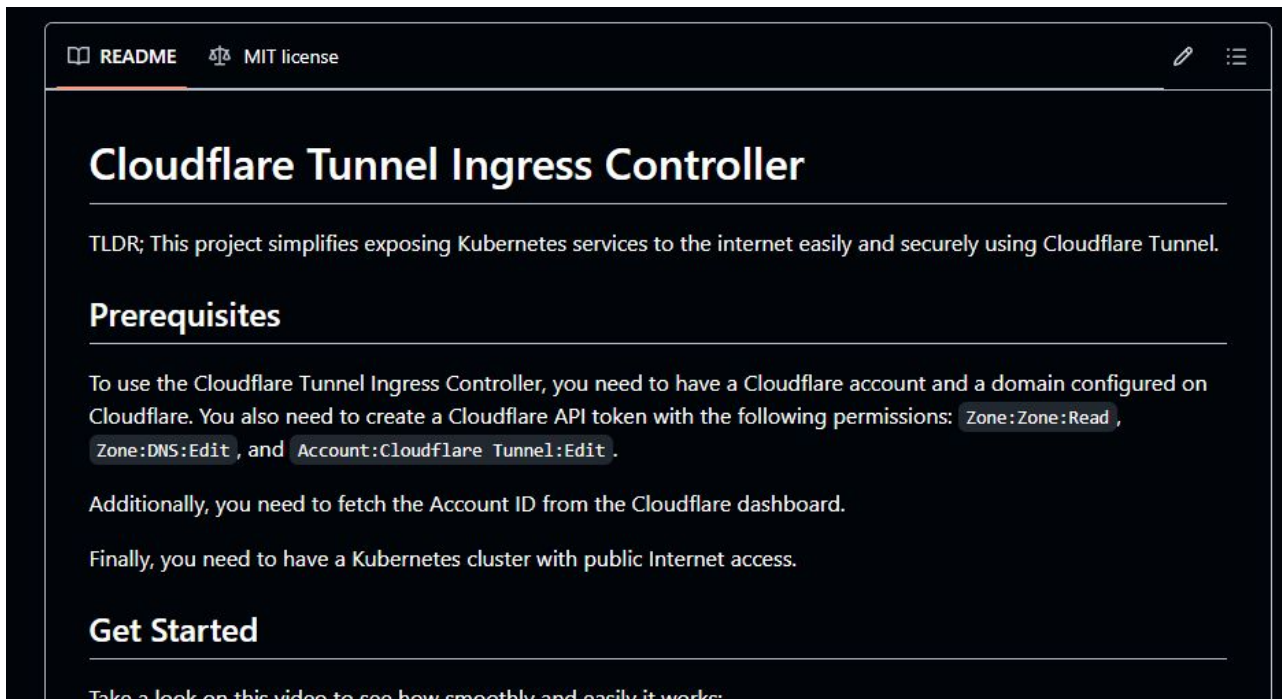
```
User:      admin
K9s Rev:   v0.32.7
K8s Rev:   v1.31.5+k0s
CPU:       1%
MEM:       35%
```

```
<2> hollo-1
<3> nsd
<4> devmil-oyasumi-dev
<5> default
```

NAME	PF	READY	STATUS
db-pool-5df7999b46-4xclc	●	1/1	Running
db-pool-5df7999b46-kb28r	●	1/1	Running
db-pool-5df7999b46-zhh15	●	1/1	Running
hollo-app-ccdd96c6c-27z2q	●	1/1	Running
hollo-db-cluster-3	●	1/1	Running
hollo-db-cluster-5	●	1/1	Running
hollo-frontend-b9cf66446-6cnv7	●	1/1	Running
hollo-frontend-b9cf66446-jxtb8	●	1/1	Running
z-release-autoupdater-28982423-ngkb5	●	0/1	Completed
z-release-autoupdater-28983203-f2ji9	●	0/1	Completed

Cloudflaredをk8s Ingressリソースとして使う(非公式)

<https://github.com/STRRL/cloudflare-tunnel-ingress-controller>



The screenshot shows the GitHub README for the 'Cloudflare Tunnel Ingress Controller' project. At the top, there are links for 'README' and 'MIT license'. The main heading is 'Cloudflare Tunnel Ingress Controller'. Below it, a TLDR summary states: 'This project simplifies exposing Kubernetes services to the internet easily and securely using Cloudflare Tunnel.' The 'Prerequisites' section follows, explaining that users need a Cloudflare account, a domain, and specific API permissions: 'Zone:Zone:Read', 'Zone:DNS:Edit', and 'Account:Cloudflare Tunnel:Edit'. It also mentions the need to fetch the Account ID from the Cloudflare dashboard and have a Kubernetes cluster with public Internet access. The 'Get Started' section begins with the instruction: 'Take a look on this video to see how smoothly and easily it works:'.

README MIT license

Cloudflare Tunnel Ingress Controller

TLDR; This project simplifies exposing Kubernetes services to the internet easily and securely using Cloudflare Tunnel.

Prerequisites

To use the Cloudflare Tunnel Ingress Controller, you need to have a Cloudflare account and a domain configured on Cloudflare. You also need to create a Cloudflare API token with the following permissions: `Zone:Zone:Read`, `Zone:DNS:Edit`, and `Account:Cloudflare Tunnel:Edit`.

Additionally, you need to fetch the Account ID from the Cloudflare dashboard.


Finally, you need to have a Kubernetes cluster with public Internet access.

Get Started

Take a look on this video to see how smoothly and easily it works:

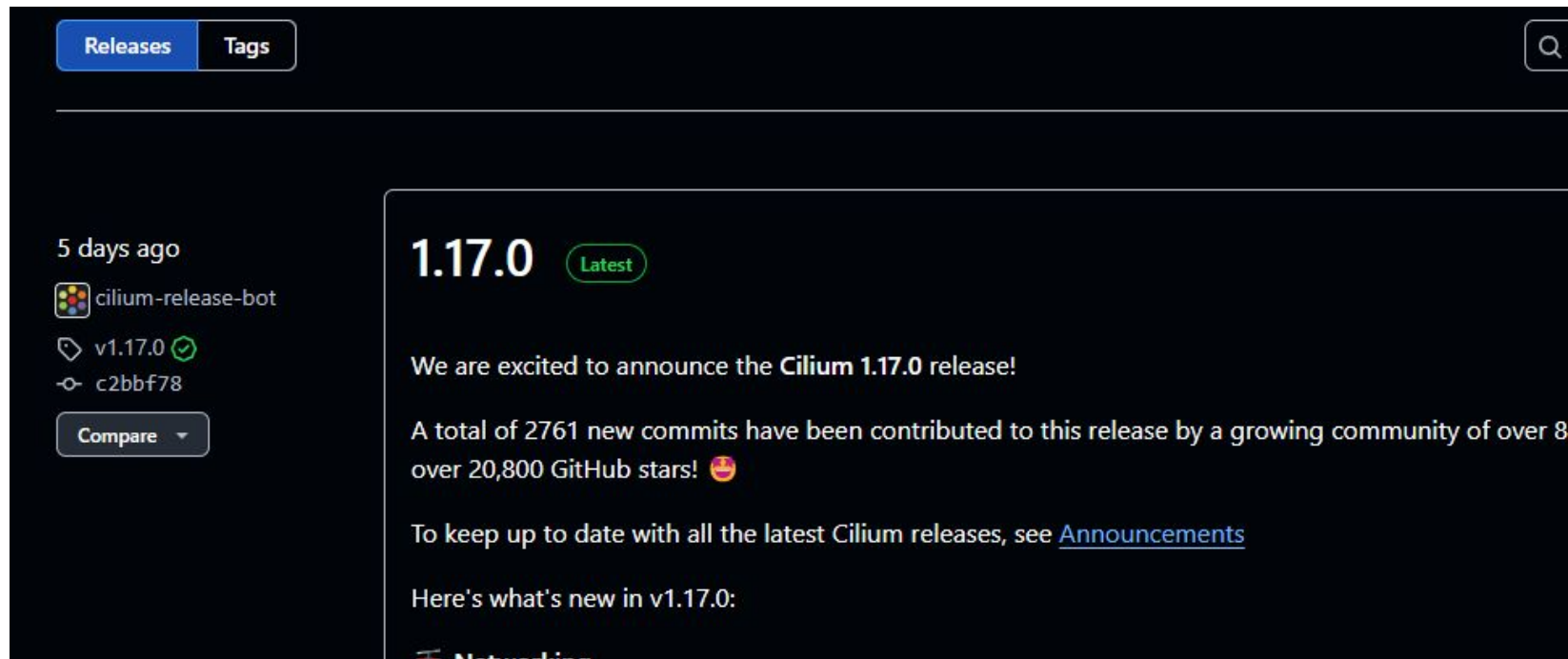
CNIとしてCiliumを使用している

k0sのデフォルトではない(標準はCalico)

```
user@k-cp-1: $ cilium status

Cilium:           OK
Operator:         OK
Envoy DaemonSet:  OK
Hubble Relay:     OK
ClusterMesh:      disabled

DaemonSet          cilium             Desired: 4, Ready: 4/4, Available: 4/4
DaemonSet          cilium-envoy       Desired: 4, Ready: 4/4, Available: 4/4
Deployment          cilium-operator    Desired: 2, Ready: 2/2, Available: 2/2
Deployment          hubble-relay       Desired: 1, Ready: 1/1, Available: 1/1
Deployment          hubble-ui          Desired: 1, Ready: 1/1, Available: 1/1
Containers:
  cilium            Running: 4
  cilium-envoy      Running: 4
  cilium-operator   Running: 2
  hubble-relay      Running: 1
  hubble-ui         Running: 1
Cluster Pods:      37/37 managed by Cilium
Helm chart version: 1.17.0
Image versions
  cilium            quay.io/cilium/cilium:v1.17.0@sha256:51f21
  cilium-envoy      quay.io/cilium/cilium-envoy:v1.31.5-173753
  cilium-operator   quay.io/cilium/operator-generic:v1.17.0@sh
  hubble-relay      quay.io/cilium/hubble-relay:v1.17.0@sha256
```

Cilium 1.17.0リリース@2025-02-04 ?



The image shows a screenshot of a GitHub release page for Cilium 1.17.0. At the top, there are tabs for "Releases" and "Tags", with "Releases" selected. A search icon is visible in the top right corner. The main content area displays the release information:

- Time: 5 days ago
- Author: cilium-release-bot
- Version: v1.17.0 (with a green checkmark icon)
- Commit hash: c2bbf78
- Action: Compare (with a dropdown arrow)

The release title is **1.17.0**, with a "Latest" badge. The release text reads:

We are excited to announce the **Cilium 1.17.0** release!

A total of 2761 new commits have been contributed to this release by a growing community of over 8 over 20,800 GitHub stars! 🎉

To keep up to date with all the latest Cilium releases, see [Announcements](#)

Here's what's new in v1.17.0:

🔧 Networking

早速更新したら

CloudflaredからCloudFlareに対してQUIC接続できなくなった……

※未解決 何らかのPolicyあたり……？

結果、Cloudflaredが再起動するたびに数分間、Holloなどに接続できなくなる事態に
……

应急处置

http2強制

```
user@k-cp-1: $ helm get values cloudflare-tun
USER-SUPPLIED VALUES:
cloudflare:
  accountId:
  apiToken:
  tunnelName: k-cluster1
cloudflared:
  protocol: http2
  replicaCount: 1
```


Deploymentが更新されなくて焦る

cloudflare-tunnel-ingress-controllerのPodが、

CloudflaredのDeployment「controlled-cloudflared-connector」を作成する

→急いでいたので原因未解明

k8sの文化(諸説)に基づき困ったらとりあえずDelete(審議)

```
$ k delete deploy -n cloudflare-tunnel-ingress-controller \  
controlled-cloudflared-connector
```

教訓

実験用環境を作って

更新前に問題が発生しないか

試すべし