**Local Networking via Kubernetes**

**Summary:** In this process, we are connecting two isolated kubernetes namespaces via skupper to better understand and mimic a real application scenario.

**Prerequisite:** Docker Desktop with Kubernetes integrations, Unix-based OS

**Log:**

| Change Made | Signature | Date |
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| Created Initial Document | SP, AG | 10/26/2022 |
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**Common Commands**

List of all created Kubernetes namespaces

Inspect the available namespaces by doing the following

| > kubectl get namespaces |
| --- |

Get skupper status

Check to ensure that each namespace is correctly configured

| > skupper status |
| --- |

**Steps - Kubernetes Cluster 1**

Install Skupper

| > curl https://skupper.io/install.sh | sh |
| --- |

Create a new Kubernetes namespace

| > kubectl create namespace public |
| --- |

Set the current namespace

| > kubectl config set-context --current --namespace public |
| --- |

Initialize Skupper

| > skupper init |
| --- |

Configure separate console sessions

Set the kubeconfig environment variable to a different path in each session

| > export KUBECONFIG=~/.kube/config-public |
| --- |

Create Skupper connection token

Generates a secret token that signifies permission to create a link

| > skupper token create ./public.token |
| --- |

**Steps - Kubernetes Cluster 2**

Install Skupper

| > curl https://skupper.io/install.sh | sh |
| --- |

Create a new Kubernetes namespace

| > kubectl create namespace private |
| --- |

Set the current namespace

| > kubectl config set-context --current --namespace private |
| --- |

Initialize Skupper

| > skupper init |
| --- |

Configure separate console sessions

Set the kubeconfig environment variable to a different path in each session

| > export KUBECONFIG=~/.kube/config-private |
| --- |

Use token to create a link

Generates a secret token that signifies permission to create a link

| > skupper token link ./public.token |
| --- |

Check the link

Check to ensure that each namespace is successfully connected

| > skupper status |
| --- |