Technical Documentation

The challenges faced during the setup and the method adopted to overcome them have been discussed below.

Fitlet - Edge Device

- Using the web cockpit is a nice handy feature to check the pods running on fitlet.
- Also, it provides an extensive interface to monitor and administer the resources as well as services on fitlet. Hence, we end up using this more often.

Intel NUC - Edge Server

- Installing the Single Node Openshift was straight forward but configuring it was a challenge due to a Windows 10 home version OS present on the laptop.
- The challenges and their solutions are-
  - DNS configuring
    - To add records to the DNS server is not possible. For that, a Professional version is required.
    - There are workarounds present but none are concrete.
  - Windows Subsystem Linux (WSL) -
    - It is a great addition in windows using a Linux based CLI.
    - It lacks functionality to handle advanced resource management such as configuring DNS records.
- The USB burn process also had a few challenges.
  - A grub error is generated if the boot device - USB stick is formatted using the windows software Rufus.
  - Even after selecting the filesystem format which corresponds to the Linux it fails to detect hence, generating a grub error
  - The solution was to use Linux based command to burn the ISO image to the USB stick.