

Project - Infrastructure

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Outline

- VPN
- Workstation
- Web
- NFS
- DNS
- Mail
- LDAP
- K8s

VPN

- Setup an VPN server for accessing intranet
- Recommendation: Wireguard or OpenVPN

Workstation

- A server for everyone to use
- Like current `cnmc.tw`

Web

- Setup a web server
- At least re-build cnmc.tw
- HTTPS is required
 - Let's Encrypt
- Recommendation: **Ng**inx

NFS

- Setup an NFS server
- At least export the home directory and mail data

DNS

- Setup an DNS server for intranet
- Recommendation: `bind`

Mail

- Setup a mail server for both sending and receiving mails
- SPF, DKIM and DMARC are recommended
- Recommendation: **Postfix & Dovecot**

LDAP

- Setup an LDAP server for all users
- At least for current club members
- Consider scheme design first
- Recommendation: OpenLDAP

K8s

- Setup an K8s cluster
- Maybe `microk8s` or `k3s` is better since they are more lightweight
- Try to deploy your own projects on it