

Project Working Plan

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The network topology contains 3 machines in total, A single Host which is running Archlinux [Linux] as an operating system, And two guest VMs on top of the host one for Containerization & the other is for Virtualization running Fedora and Archlinux respectively.

I. The main machine or the host is running the following

- Qemu/KVM
- Libvirt
- VirtManager
- Openvswitch (OVS)

II. The first guest is a Fedora containerization VM running

- Docker
- Docker Compose
 - Nextcloud
 - Syncthing
 - Duplicati
 - Perkeep
 - PostgreSQL
 - Adminer
 - Jellyfin
- SELinux
- cgroups

III. The Second guest is an Archlinux virtualization VM running Qemu/KVM

- Qemu/KVM
- Apache Web Server
- Custom Qemu/KVM Web UI