

Lab: Virtual Machines Network Topologies

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Goal

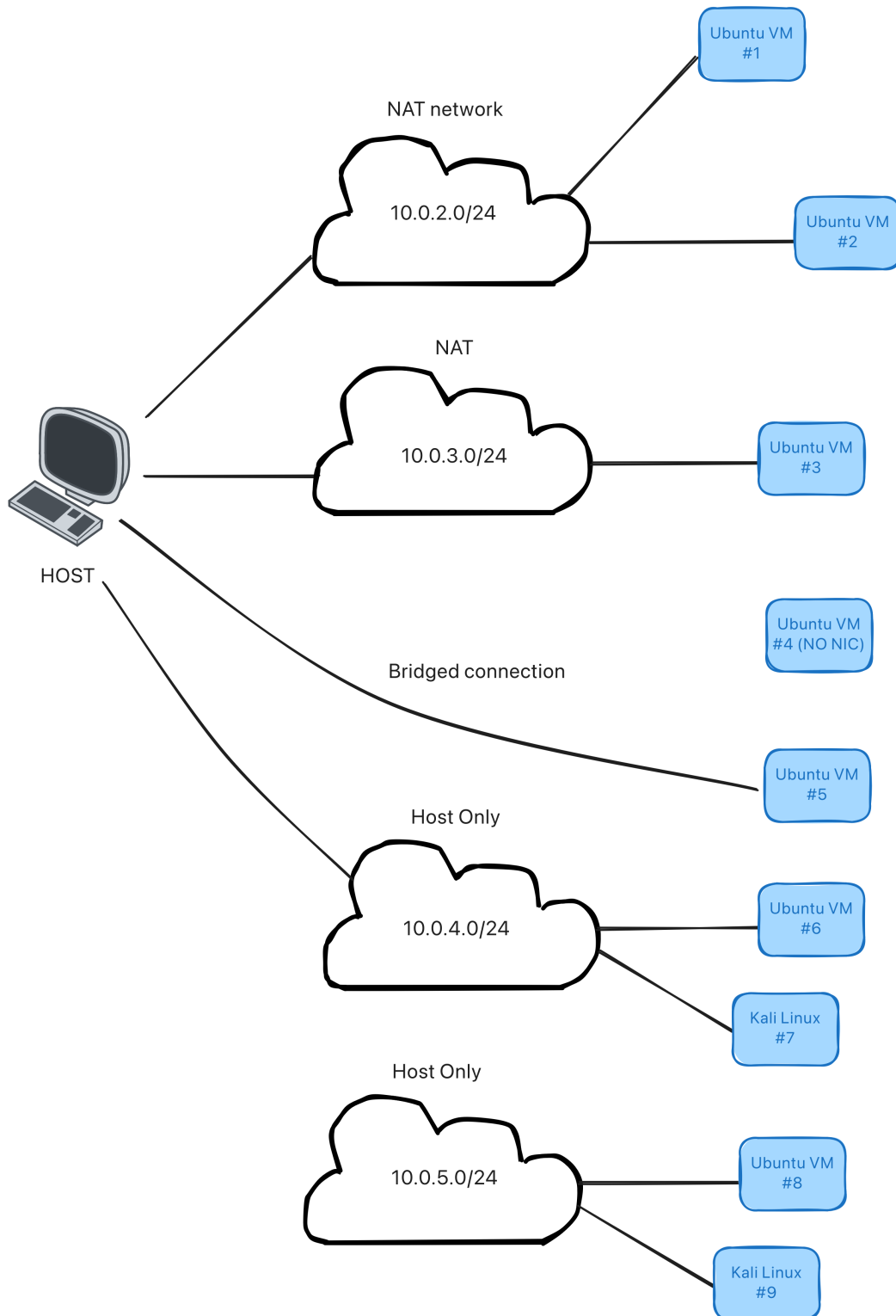
Build the network configurations from the virtualization slides twice:

1. In VirtualBox.
2. In QEMU/KVM with libvirt and virt-manager.

Rules

- Use the same logical topology in both hypervisors.
- Do not add extra adapters unless the exercise asks for them.
- Do not enable IP forwarding or routing inside Kali.
- If ICMP fails, check the guest firewall before changing the topology.
- You don't need to boot up everything (just the devices required for the ping tests).
- Be aware that you can work more efficiently if you understand how virtual disks work.

Topology



Questions

- Which devices can do ping the machine #1?
- Which devices can do ping the machine #2?
- Which devices can do ping the machine #3?
- Which devices can do ping the machine #4?
- Which devices can do ping the machine #5?
- Which devices can do ping the machine #6?
- Which devices can do ping the machine #7?
- Which devices can do ping the machine #8?
- Which devices can do ping the machine #9?
- How would you expose an http server (that it's allowed to be searchable on your home network / the internet) on machine #1?
- How would you expose an http server (that it's allowed to be searchable on your home network / the internet) on machine #3?
- How would you expose an http server (that it's allowed to be searchable on your home network / the internet) on machine #5?
- How would you expose an http server (that it's allowed to be searchable on your home network / the internet) on machine #6?
- Which host (or hosts) would you use to analyze a virus file?