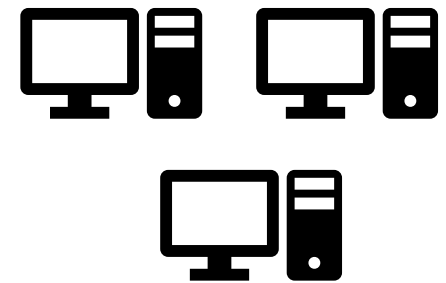
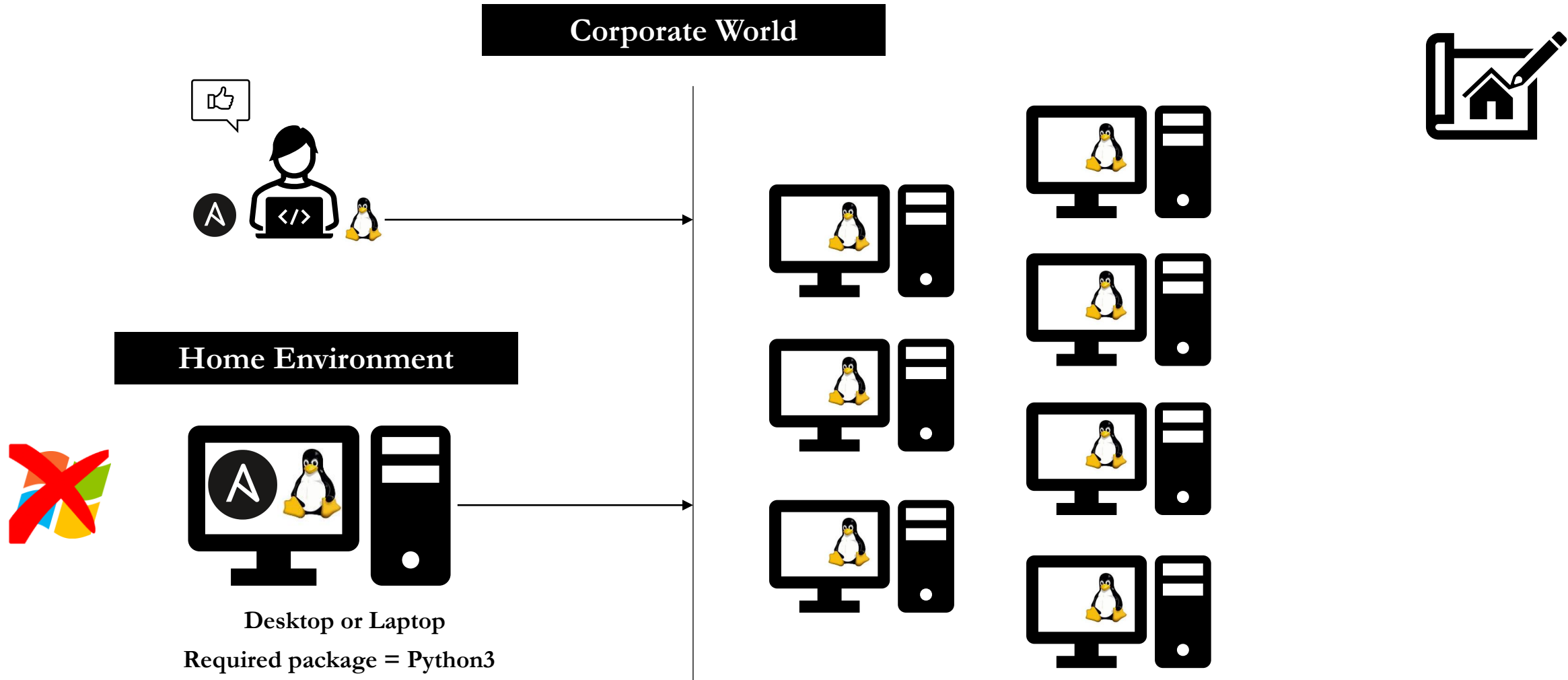


Complete Ansible Automation Training

Lab Design and Setup



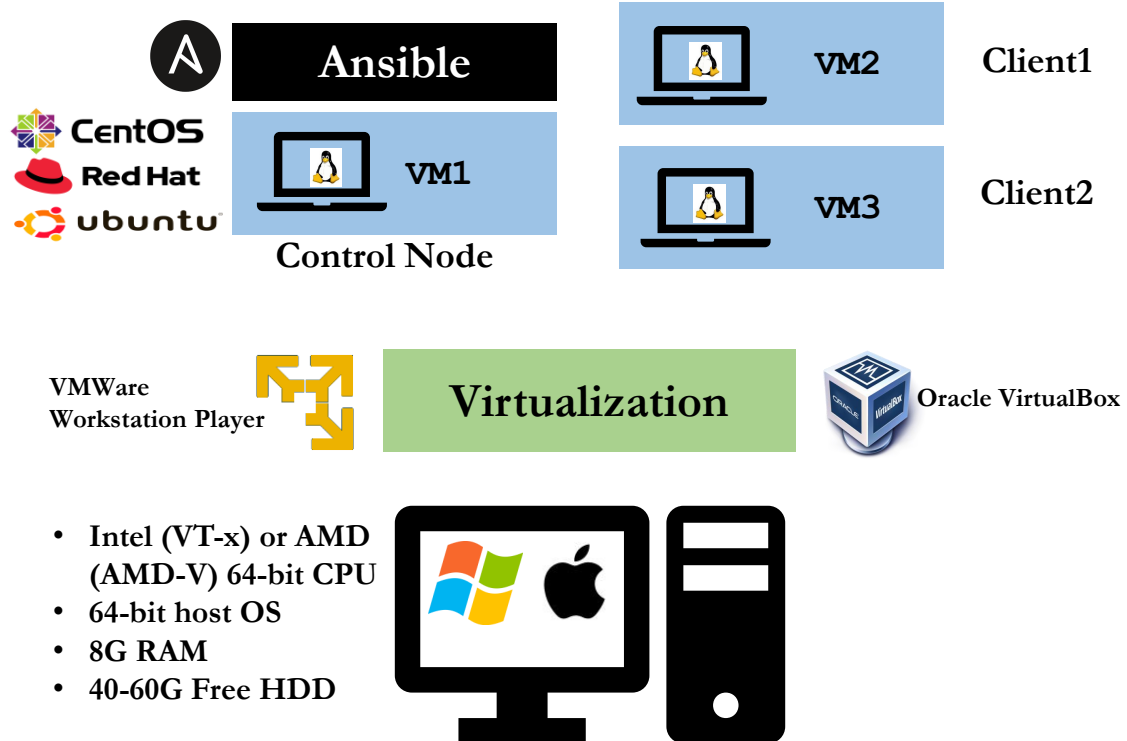
Lab Design



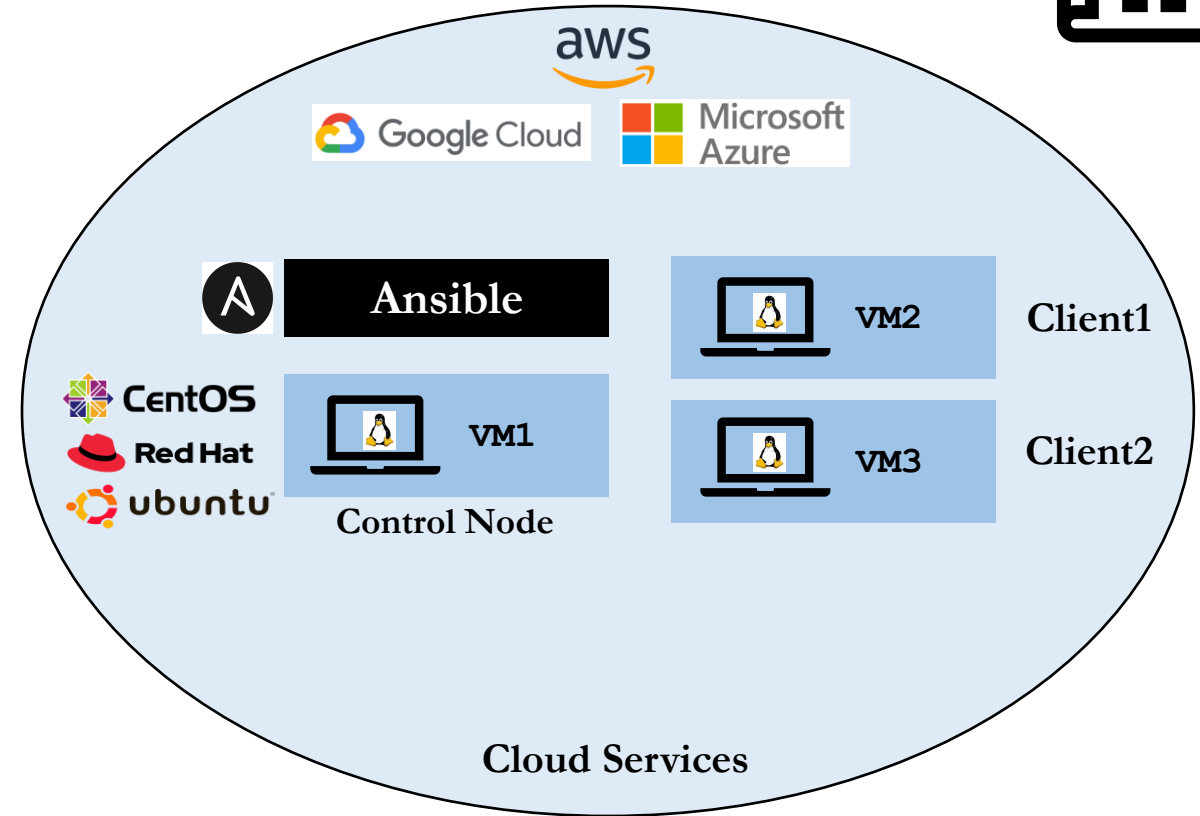
Lab Design

2 Options

Option 1



Option 2



Installing Virtualization Software

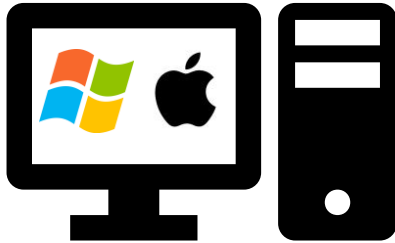
Option 1

2

Virtualization



1

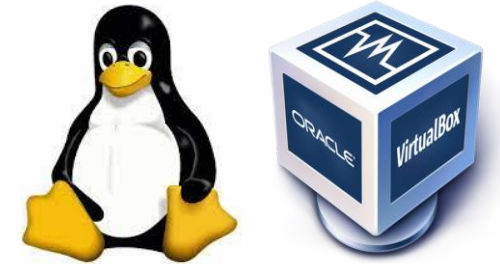
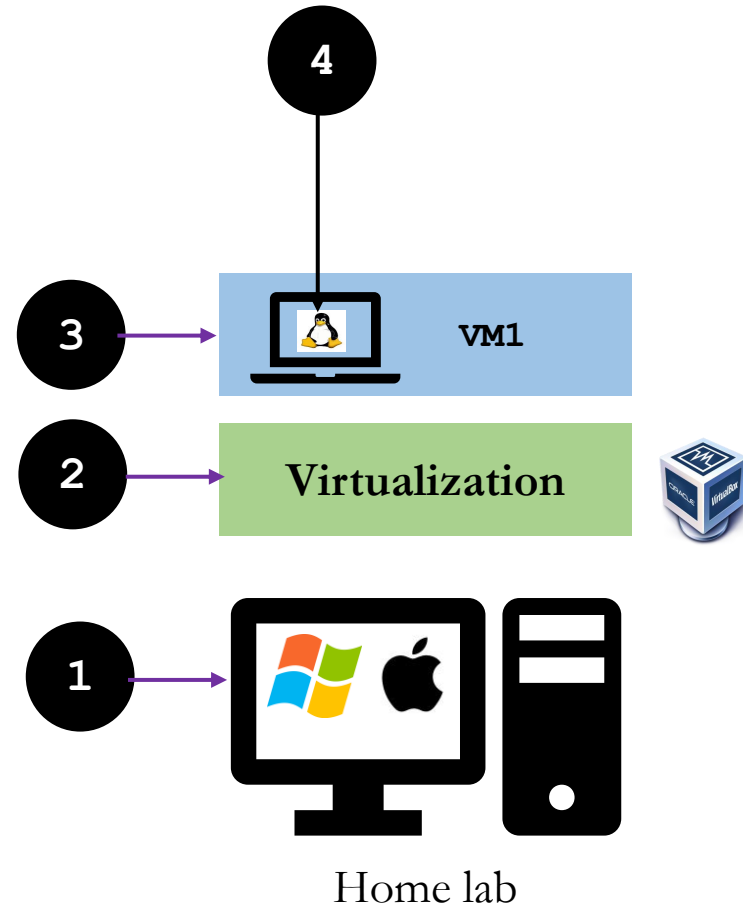


Home lab

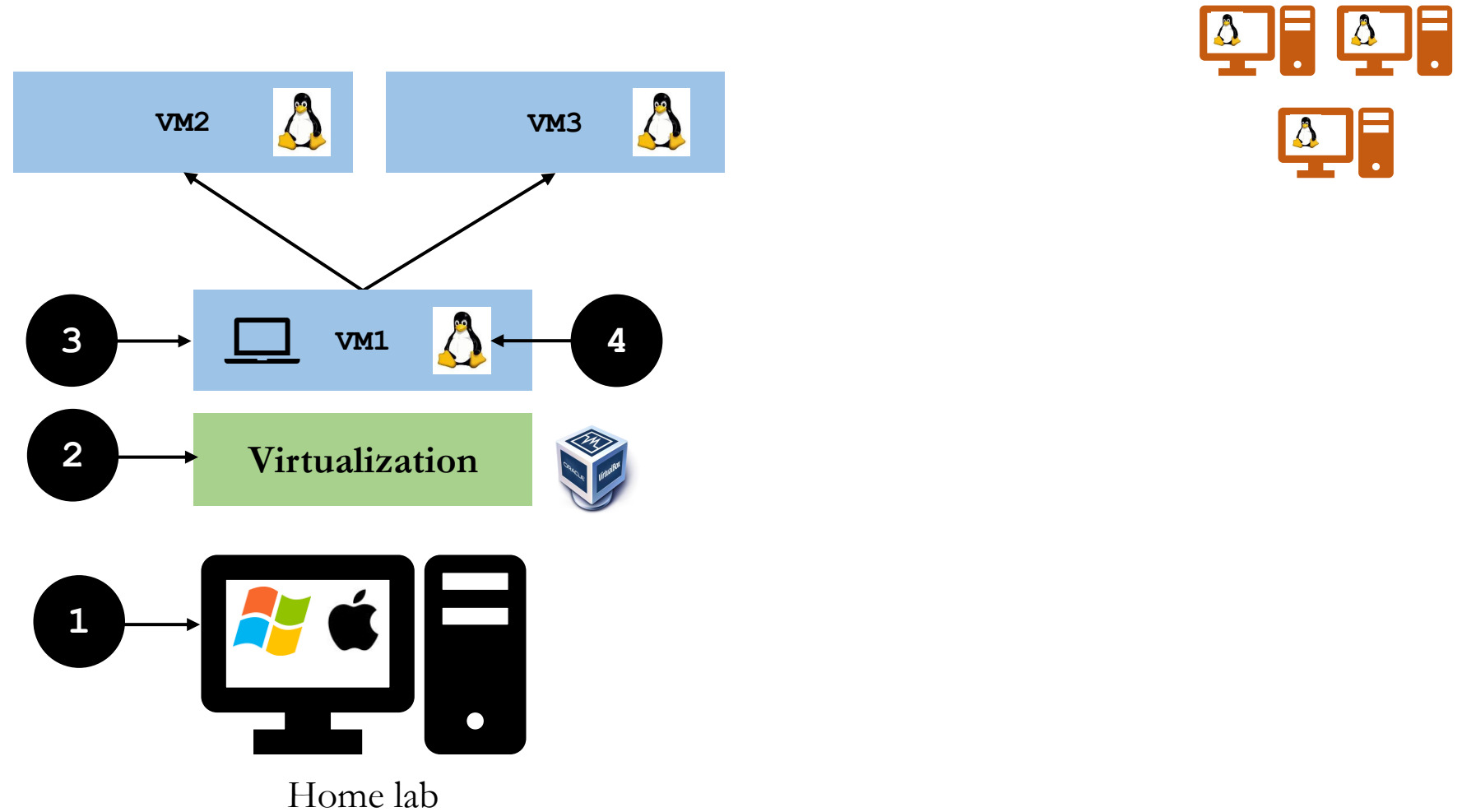
- What is Virtualization software?
- What is Oracle VirtualBox?
- Download Oracle VirtualBox
- Install Oracle VirtualBox



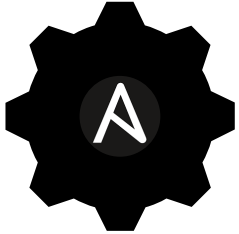
Creating a VM and Installing Linux



Creating Ansible Clients



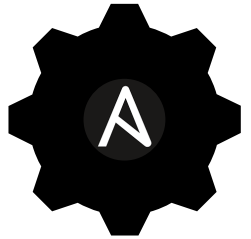
Installing Ansible



IMPORTANT: Take VM snapshot

- Ansible Installation guide can be found on:
https://docs.ansible.com/ansible/latest/installation_guide/intro_installation.html
- CentOS/Red Hat/Fedora 7
 - `yum/dnf install epel-release`
 - `yum/dnf install ansible`
- For version 8:
 - `yum install epel-release`
 - `yum install python -y` (*should be installed already*)
 - `yum install ansible ansible-doc`
- CentOS 8 (*In case the above steps don't work*)
Usually, version 8 will come with Python3 already installed by default. However, if for whatever reason Python3 is not installed, then install it using the following commands
 - `yum/dnf install python3`
- Installing PIP – The Python Package Installer
 - `yum/dnf install python3-pip`
- Install Ansible as a regular user
 - `pip3 install ansible ansible-doc`

Installing Ansible



- Red Hat 8 (enable the Ansible Engine repository to install Ansible)
 - `subscription-manager repos --enable ansible-2.8-for-rhel-8-x86_64-rpms`
 - `yum/dnf install ansible`
- Check Ansible version and run ping module without Playbook to check Ansible status
 - `# ansible --version`
 - `# ansible localhost -m ping`
- Ansible config files
 - `/etc/ansible` → Default directory
 - `/etc/ansible/ansible.cfg`
 - `/etc/ansible/hosts`
 - `/etc/ansible/roles`

Please note:

If you have **SELinux** enabled on remote nodes, you will also want to install **libselinux-python** on them before using any copy/file/template related functions in Ansible. You can use the yum module or dnf module in Ansible to install this package on remote systems that do not have it.