**16 - R710 Proxmox Hypervisor - disable SWAP**

This sets up a bare-bones minimal system with a very small (~2GB disk) Ubuntu box

Most instructions came from this link:

<https://austinsnerdythings.com/2021/08/30/how-to-create-a-proxmox-ubuntu-cloud-init-image/>

from this video:

<https://www.youtube.com/watch?v=1sPG3mFVafE>

Do these steps:

1. Open proxmox root terminal and as root, add ‘sudo’ to proxmox:  
   **apt-get install sudo**
2. Also as root, do:  
   **apt update -y && apt install libguestfs-tools –y**
3. Open proxmox root terminal and as root, create user ‘rhys’:  
   **adduser rhys**  
   **usermod -a -G sudo rhys**
4. Log into ‘rhys’ and do:

**ssh-keygen -t rsa -b 4096**

1. Create directory named: ‘original’ and ‘cd’ into this.  
   Then we download the base Ubuntu image with:  
   **wget** [**https://cloud-images.ubuntu.com/focal/current/focal-server-cloudimg-amd64.img**](https://cloud-images.ubuntu.com/focal/current/focal-server-cloudimg-amd64.img)
2. Do: ‘cd ..’
3. Create file: ‘create-template.sh’:

**touch create-template.sh**  
**chmod +x create-template.sh**

in this file put:

**#!/usr/bin/bash**

**# run this with sudo**

**# change Data1 to local-lvm when needed**

**rm focal-server-cloudimg-amd64.img**

**cp original/focal-server-cloudimg-amd64.img focal-server-cloudimg-amd64.img**

**virt-customize -a focal-server-cloudimg-amd64.img --install qemu-guest-agent**

**# inject the SSH keys into the cloud image itself before turning it into a template and VM.**

**# You need to create a user first and the necessary folders:**

**virt-customize -a focal-server-cloudimg-amd64.img --run-command 'useradd rhys'**

**virt-customize -a focal-server-cloudimg-amd64.img --run-command 'mkdir -p /home/rhys/.ssh'**

**virt-customize -a focal-server-cloudimg-amd64.img --ssh-inject austin:file:/home/rhys/.ssh/id\_rsa.pub**

**virt-customize -a focal-server-cloudimg-amd64.img --run-command 'chown -R rhys:rhys /home/rhys'**

**# Create Proxmox VM using modified image**

**qm create 9000 --name "ubuntu-2004-cloudinit-template" --memory 2048 --cores 2 --net0 virtio,bridge=vmbr0**

**qm importdisk 9000 focal-server-cloudimg-amd64.img Data1**

**qm set 9000 --scsihw virtio-scsi-pci --scsi0 Data1:vm-9000-disk-0**

**qm set 9000 --boot c --bootdisk scsi0**

**qm set 9000 --ide2 Data1:cloudinit**

**qm set 9000 --serial0 socket --vga serial0**

**qm set 9000 –-agent enabled=1**

**# Convert VM to a template**

**qm template 9000**

**# Clone the template into a full VM and set some parameters**

**qm clone 9000 999 --name test-clone-cloud-init**

**#qm set 999 --sshkey ~/.ssh/id\_rsa.pub**

**qm set 999 --ipconfig0 ip=192.168.124.207/24,gw=192.168.124.1**

**qm start 999**

1. Create a file: ‘delete-template.sh’  
   **touch delete-template.sh**

**chmod +x delete-template.sh**

in this file put:

**#!/usr/bin/bash**

**# run this with sudo**

**qm stop 999**

**qm destroy 999**

**qm destroy 9000**

1. To create the template, create VM from template and run, do:

**sudo ./create-template.sh**

1. To log into the running machine:

**ssh** [**rhys@192.168.124.207**](mailto:rhys@192.168.124.207)

1. When done, log out of the machine
2. To delete the VM and template, do:  
   **sudo ./delete-template.sh**
3. Before repeating and running the above process again, the last entry in **~/.ssh/known\_hosts** will need to be deleted