

Virtual Machine Setup

Download the `debian-12-generic-amd64.raw` file from <https://cloud.debian.org/images/cloud/bookworm/latest/>.

1. Create the virtual machine
2. Add a cloud-init drive on the VM
3. Import the cloud image: `qm importdisk $VMID /mnt/pve/assets/template/iso/debian-12-generic-amd64.raw local-lvm --format qcow2`
4. Setup cloud-init: `qm set $VMID --cicustom "user=cloud-init:snippets/user.yaml,network=cloud-init:snippets/network.yaml"`

Example config files:

user.yaml

```
#cloud-config
hostname: zsottvXX
manage_etc_hosts: true
fqdn: zsottvXX.zsnet.ca
user: zsadmin
ssh_authorized_keys:
  - ssh-rsa KEY COMMENT
chpasswd:
  expire: False
users:
  - default

# Setup ntp
ntp:
  enabled: true
  ntp_client: chrony
  servers: []
  pools:
    - time.zsnet.ca

# Add gnupg
bootcmd:
```

- DEBIAN_FRONTEND=noninteractive apt-get -yq update
- DEBIAN_FRONTEND=noninteractive apt-get -yq install gnupg

Configure apt repositories

apt:

primary:

- arches: [default]
- uri: http://mirror.csclub.uwaterloo.ca/debian/

security:

- arches: [default]
- uri: http://mirror.csclub.uwaterloo.ca/debian-security/

sources_list: |

```
deb $PRIMARY $RELEASE main contrib
deb $PRIMARY $RELEASE-updates main contrib
deb $SECURITY $RELEASE-security main contrib
```

package_update: true

package_upgrade: true

package_reboot_if_required: true

Install packages

packages:

- qemu-guest-agent

network.yaml

version: 1

config:

- type: physical
- name: eth0
- mac_address: 'xx:yy:zz:aa:bb:cc'
- subnets:
 - type: dhcp4
 - type: ipv6_slaac
- type: nameserver
- address:
 - '2602:815:9000::53'
 - '2602:815:9000:1::53'
- search:
 - 'zsnet.ca'

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