Jon (SN3 Dev Box)

Jon is a HP ProLiant DL380p Gen 8 server running the proxmox virtual environment. Mesh service owners can use Jon to run VMs and LXC to host their mesh services. Jon is physically located in the DataVerge data center, network number 713 (SN3).

Jon was graciously donated to the mesh by Willard.

Hardware

- HP ProLiant DL380p Gen 8
- Dual Xeon E5-3670V2
- 128GB of DDR3 ECC memory
- 5x 2TB 3.5" SAS Drives

How It Works

Getting Access

Access can be requested from Willard.

How To Provide Access

The root password should not be shared. Instead, user accounts can be created for each user.

TBD

Resource Pools

Resource pools must be used to group resources. They can be used for easily providing permissions as well as organize resources that belong to a given service.

Tagging

Resources must be tagged to the owner(s) and service. Un-tagged resources are subject to automatic removal.

Tag Name	Tag Type	Description

jameso	Person	Maintained by James
meshdbdev	Service	Maintained by to the meshdb project
soc	Service	Maintained by the MeshDB SOC (a.k.a. James)
willard	Person	Maintained by Willard

Available Images

Save future you some time by using a cloud image. This will give you a pre-provisioned linux system without needing to go through the installer. When using these, remember:

- Do not start the template image, this will break it
- When cloning any template image, make sure that "Mode" is "**Full Clone**" NOT A "Linked Clone"

How debian-cloud (5001) was setup

If you are doing this yourself, you'll need to pick a number in the 5XXX range that is not already taken.

1. Get the cloud image, add the guest agent. You may need libguestfs-tools

```
wget https://cloud.debian.org/images/cloud/bookworm/20240429-1732/debian-12-generic-amd64-20240429-1732.tar.xz
tar -xf debian-12-generic-amd64-20240429-1732.tar.xz
virt-customize -a disk.raw --install qemu-guest-agent
```

2. scp the modified image to jon

```
scp disk.raw root@10.70.90.52:/root/debian-12-generic-amd64-20240429-1732-qemu-guest-agent.raw
```

3. On jon, create a template VM and import the image

```
qm create 5001 --memory 2048 --core 2 --name debian-cloud --net0 virtio,bridge=vmbr0
qm importdisk 5001 debian-12-generic-amd64-20240429-1732-qemu-guest-agent.raw local-lvm
qm set 5001 --scsihw virtio-scsi-pci --scsi0 local-lvm:vm-5001-disk-0
qm set 5001 --ide2 local-lvm:cloudinit
```

```
qm set 5001 --boot c --bootdisk scsi0
qm set 5001 --serial0 socket --vga serial0
qm set 5001 --ipconfig0 ip=dhcp
qm set 5001 --agent 1
qm template 5001
```

4. Find the VM (5001) in the proxmox UI. Look review configuration.

Using debian-cloud (5001)

1. Log into proxmox
2. Right click VM 5001 and click "Clone"
3. Make sure you use "Full Clone"
4. In you clone, go to "Cloud-Init" and set the username, password and/or ssh key
5. Make sure the disk size is large enough for your needs
6. Start the VM, give it a few minutes to go through the cloud-init process and update packages.
7. Do something great for the mesh!

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