How to create a XEN dom0 with Buster

Follow these instructions to create a XEN dom0 from scratch that uses pvgrub.

Prerequisites

1. Debian Buster
2. Internet

Create dom0

1. Install the xen-system package:

   ```bash
   apt-get install xen-system-amd64 -y
   ```

2. Create the bridged network:

   ```bash
   apt-get install bridge-utils -y
   cat /etc/network/interfaces.d/xen
   auto xenbr0
   iface xenbr0 inet dhcp
   bridge_ports enp2s0
   ```

3. Install and configure xen-tools:

   ```bash
   apt-get install xen-tools
   # Edit /etc/xen-tools/xen-tools.conf
   dir = /home/bl/ ## Change to your normal user
   passwd = 1      ## This enables a private root password for each domU
   ```

4. Create a trial domU:

   ```bash
   xen-create-image --hostname trial.blue.av --vcpus 2 --pygrub --dist buster
   xen create /etc/xen/trial.blue.av.cfg
   ```

Use PVgrub instead of pygrub

1. Boot the image using pygrub first then run these commands:

   ```bash
   mkdir /boot/grub
   apt-get install linux-image-amd64
   apt-get install grub2-common
   update-grub
   ```

2. Destroy the container:

   ```bash
   xen destroy $id ## where $id is the id of the container, you can find the id of the container using the command 'xen list'
   ```

3. Change parameters in the config file:

   ```bash
   # Change from
   bootloader = 'pygrub'
   # To
   kernel = /usr/lib/grub-xen/grub-x86_64-xen.bin
   ```
4. Recreate the container:

```bash
xen create /etc/xen/trial.blue.av.cfg
```

**Common issues**

If grub fails to load after changing from bootloader to kernel, you have missed step #1 or it has not been done properly.

**Source**

[https://wiki.debian.org/Xen](https://wiki.debian.org/Xen)