

<https://www.perkin.org.uk/posts/create-virtualbox-vm-from-the-command-line.html>

Create VirtualBox VM from the command line

```
$ VM='Ubuntu-64-DR'
```

Create a 64GB "dynamic" disk.

```
$ VBoxManage createhd --filename $VM.vdi --size 64768
```

list of the OS types VirtualBox recognises using  
:

```
$ VBoxManage list ostypes
$ VBoxManage createvm --name $VM --ostype "Ubuntu_64" --register
```

Add a SATA controller with the dynamic disk attached.

```
$ VBoxManage storagectl $VM --name "SATA Controller" --add sata \> --controller IntelAHCI
$ VBoxManage storageattach $VM --storagectl "SATA Controller" --port 0 \> --device 0 --type hdd --medium $VM.vdi
```

Add an IDE controller with a DVD drive attached, and the install ISO inserted into the drive:

```
$ VBoxManage storagectl $VM --name "IDE Controller" --add ide
$ VBoxManage storageattach $VM --storagectl "IDE Controller" --port 0 \> --device 0 --type dvddrive --medium /path/to/Ubuntu server.iso (wget http://mirror.stjschools.org/public/ubuntu-release/16.04.1/ubuntu-16.04.1-server-amd64.iso)
```

Misc system settings.

```
$ VBoxManage modifyvm $VM --ioapic on
$ VBoxManage modifyvm $VM --boot1 dvd --
boot2 disk --boot3 none --boot4 none
$ VBoxManage modifyvm $VM --memory 4096 --
vram 128
$ VBoxManage modifyvm "guest" --nic1 nat
$ vboxmanage modifyvm "guest" --
natpf1 "ssh,tcp,,10022,,22"
```

Configuration is all done, boot it up! If you've done this one a remote machine, you can RDP to the console via vboxhost:3389.

```
$ VBoxManage startvm $VM --type headless
install the server
follow the instruction
username vannberglab
password vannberglab
```

Power off

```
$ VBoxManage controlvm $VM poweroff soft
eject the DVD
$ VBoxManage storageattach $VM --
storagectl "IDE Controller" --port 0 \
> --device 0 --type dvddrive --medium none
```

take regular snapshots

```
$ VBoxManage snapshot $VM take
```

revert back to a particular snapshot:

```
$ VBoxManage snapshot $VM restore
```

```
$ VBoxManage import Ubuntu-64-DR.ova
$ VBoxManage startvm $VM --type headless
```

```
$ ssh vannberglab@localhost -p 10022
```

```
$ VBoxManage controlvm $VM poweroff soft
```

```
$ vboxmanage unregistervm Win7ult32nl --delete
```