**Xen** **Essentials**

**Xen xl commands**

* xl create
* xl shutdown
* xl console
* xl info

**VM Conf file**

<%= @hostname -%> = hostname

<%= @disk label -%> = xvdX in PV, hdX in HVM

<%= @vm\_number -%> = VM ID

<%= @ip2mac -%> = IP to MAC, from hex->dec to hex

<%= @vlan -%> = network VLAN

<%= @mtu -%> = network MTU

**{{BOTH PV/HVM}}**

name="<%= @hostname -%>.dev.edss.pool"

memory = 2048

vcpus = 2

cpu\_weight = 256

on\_poweroff = "destroy"

on\_reboot = "restart"

on\_crash = "restart"

##DISKS

disk=[

"tap:raw:/media/storage/images/infrastructure/dev.edss.pool/<%= @hostname -%>/system.raw,<%= @disk label -%>a,w",

"tap:raw:/media/storage/images/infrastructure/dev.edss.pool/<%= @hostname -%>/media/storage.raw,<%= @disk label -%>b,w",

"tap:raw:/media/storage/images/infrastructure/dev.edss.pool/<%= @hostname -%>/media/storage\_meta.raw,<%= @disk label -%>y,w",

]

##NET

vif =[

"mac=AA:00:<%= @ip2mac -%>,bridge=vlannet\_ovs-light\_<%= @vlan -%>\_<%= @mtu -%>",

]

**{{PV}}**

maxvcpus = ..

maxmem = ..G

bootloader = "pygrub"

bootargs = "--entry=xvda1:/boot/vmlinuz-xen,/boot/initrd-xen"

extra = "CPUFREQ=no panic=15 barrier=off"

vfb = [ 'type=vnc,vnclisten=0.0.0.0,vncdisplay=<%= @vm\_number -%>,vncpasswd=vnc' ]

**{{HVM}}**

device\_model\_version = 'qemu-xen'

device\_model\_override = '/usr/lib/xen/bin/qemu-system-i386'

builder = 'hvm'

boot='cn'

pae = 1

acpi = 1

apic = 1

vnc=1

vnclisten="0.0.0.0"

vncdisplay=<%= @vm\_number -%>,

vncpasswd="vnc"

keymap='en-us'

usbdevice="tablet"

keymap='en-us'

usbdevice="tablet"

**Path**

/media/storage/templates/ - direct copy templates

/media/storage/images/\!master/ - used templated

/media/storage/images/infrastructure/ - chef-based VM creation

/media/storage/images/manual/ - manual VM creation

/media/storage/xl/ - VM config files

/media/storage/backup/ - VM snapshots

**OVS**

ovs-vsctl show – show current topology

ovs-dpctl dump-flows – current OVS flows

ovs-ofctl dump-flows vlannet – current openflow rules

**VM misc**

Make a VM disk allocation

fallocate -l 10G /media/storage/images/infrastructure/dev.edss.pool/test01/media/storage.raw

Make a disk reflink (clone disk)

* reflink /media/storage/images/\!master/template.raw -p -t /media/storage/images/infrastructure/dev.edss.pool/test01

Действия с образами VM производятся с правами пользователя vmadmin