INSTALLATION OF ZONE CONTROLLERS AND MMRS IN PROXMOX VIRTUALIZATION ENVIRONMENT

Steps

- 1. Install the Proxmox server on a Virtual box
- 2. Partition the storage
- 3. Make the partition as directory storage
- 4. Move the files from the host pc to your Proxmox server
- 5. Change the file format from vmdk to raw
- 6. Create 2 Virtual machines one for MMR and another for ZCs
- 7. set up the storage
- 8. Start the VM and Console
- 9. Setup the network

Make the partition as directory storage

3.Datacenter >>Storage>>Add>>Directory



Create a new directory storage

Add: Directory								
General	General Backup Retention							
ID:	Zoom	Nodes:	PV1	× ~				
Directory:	/mount/ <mark>sda</mark>	Enable:						
Content:	Disk image, ISO image, \vee	Shared:						
P Help			Advanced 🗌	Add				

You can see the new directory storage like this



4. Move the files from host PC to Proxmox nodes

Use SCP or WinSCP/Filezilla to upload the MMR and ZC files to proxmox nodes

SCP:scp /Users/mercy/Downloads/ZC.vmdkroot@192.248.4.96:/mount/sdb1 scp /Users/mercy/Downloads/MMR.vmdkroot@192.248.4.96:/mount/sdb1 Proxmox doesn't support OVF or VMDK format

5.Convert into .raw or .qcow2 format

- Cd /mount/sdb1 where the vmdk files are stored
- qemu-img convert -f vmdk mmr.vmdk -O raw MMR.raw
- Or
- qemu-img convert -f vmdk mmr.vmdk -O qcow2 MMR.qcow2
- 6. Create MMR and ZC virtual machines

Create: Virtua	I Machine								\otimes
General	S System	Disks	CPU	Memory	Network	Confir	m		
Node:	PV1			~	Resource Pe	pol:			~
VM ID:	100			$\hat{}$					
Name:	Zoom-MMI	٦							
P Help							Advanced 🗌	Back	Next

We do not need any media we will use the MMRand ZC and both support in linux



Create: Virtu	ual N	lachine						\otimes
General	OS	System Dis	sks CPU	Memory	Network Co	nfirm		
Graphic card	:	Default		\sim	SCSI Controller:	VirtIO SCSI single		\sim
Machine:		Default (i440fx)		~	Qemu Agent:			
Firmware								
BIOS:		Default (SeaBIC)S)	\sim	Add TPM:			
Help						Advanced 🗌	Back	Next

This disk will not be used and removed later. the ZC.raw and MMR.raw disk will be used

Create: Virtual Mach	Create: Virtual Machine							
General OS Sy	vstem Disks	CPU Memory Network	Confirm					
scsi0 🛍	Disk Bandw	idth						
	Bus/Device:	SCSI V 0	Cache:	Default (No cache)				
	SCSI Controller:	VirtIO SCSI single	Discard:					
	Storage:	local-lvm ~	IO thread:					
	Disk size (GiB):	32						
	Format:	Raw disk image (raw 💙						
🕂 Add								
Help			Adva	Inced Back Next				

Minimum number of CPU cores is 4

Create: Vi	tual N	lachine								\otimes
General	OS	System	Disks	CPU	Memory	Network	Cor	ıfirm		
Sockets:		1			\bigcirc	Туре:		Default (kvm64)		~
Cores:		4			$\hat{}$	Total cores:		4		
Help								Advanced	Back	Next

Minimum RAM size is 8GB

Create: Vir	tual M	achine						\otimes
General	OS	System	Disks	CPU	Memory	Network	Confirm	
Memory (M	iB):	[8192		\bigcirc			
								4
Help							Advanced Back Ne	<t th="" <=""></t>

Create: Vir	rtual N	lachine							\otimes
General	OS	System	Disks	CPU	Memory	Network	Cor	ıfirm	
🗌 No netw	ork de	vice							
Bridge:		vmbr0			\sim	Model:		VirtIO (paravirtualized)	\sim
VLAN Tag:		no VLAN			$\hat{}$	MAC addres	S:	auto	
Firewall:									
Help								Advanced 🗌 🛛 Back	Next

Create: Virtual Ma	chine	\otimes
General OS	System Disks CPU Memory M	Network Confirm
Key 1	Value	
cores	4	
ide2	none,media=cdrom	
memory	8192	
name	Zoom-MMR	
net0	virtio,bridge=vmbr0,firewall=1	
nodename	PV1	
numa	0	
ostype	126	
scsiO	local-lvm:32,iothread=on	
scsihw	virtio-scsi-single	
sockets	1	
vmid	100	
Start after create	d	
		Advanced 🗌 Back Finish

Remove the unused disk and CD/DVD

• Attaching MMR and ZC disks on MMR and ZC machines



6) Obtain VMID

- And the storage that will be assigned on the machines
- sudo qm importdisk <vmid> ZC.raw <Directory storage>
- sudo qm importdisk <vmid> MMR.raw <Directory storage>

7)Select Bus/Device as IDE

Add: Unused D	isk		\otimes
Disk Bandwi	dth		
Bus/Device:	IDE ~ 0 🗘	Cache:	Default (No cache)
Disk image:	zoom2:101/vm-101-disk \vee	Discard:	
		IO thread:	
P Help			Advanced 🗌 🛛 Add

8)Rearrange the boot order

Edit: Boot (Order			\otimes			
#	Enabled	Device	Description				
≡ 1		≓ net0	virtio=36:38:70:2E:AE:A6,bridge=vmbr0,firewall=1				
= 2		🖨 ide0	zoom2:101/vm-101-disk-0.raw,size=100G				
Drag and dro	Drag and drop to reorder						
P Help			OK Res	et			

9)Start the VM and access the console

Once you logged in change the password of the admin

Network Configuration of MMR and ZC

sudo vi /etc/sysconf ig/network-scripts/<ifcfg-xx>



Add

the static ip address

Gateway

Netmask

10)Restart the network service

sudo service network restart

11)Ping the ip to see if reachable

12)Open Browser

Browse to https://<ip-address>:5480