

Snapshot :-

at a particular given point of time

- Vmdk - Virtual machine disk file
- Vswp - Vm Swap memory / virtual memory
- Vmsn - Snapshot file
- Vmx - Vm execution file

* ADD Hard disk

- VM ware setting
- new HDD - 70GB
- restart guest
- login again for root
- Storage Datastore
- new datastore
- next
- name Storage
- next
- finish
- yes

Create 3 folder

① Custom

- I will later

- windows
Windows ser 2012

- name DC
location - VMware Admin - DC

- Store - 60GB

- finish
Select iso - Browse - WS R2 2012

- BIOS

- Standard R2

- Next

② New v/c

- custom

- later

- windows - version - W.S. 2016

- name - vcenter server

- Browse - VM admin - Vcenter server

- Store - 60 GB

- finish

- edit VM settings

- ISO - Win 10 Pro 2016 D9PS

- Advanced - BIOS

- O

- Next

- install now

- W.S. 2016 Standard

- Custom - install windows

③ Typical

- later

- Windows 10 X64

- Client - park VM admin - Client

- Store - 60GB

- finish

- edit

- iso - Browse - Win 10 X64 foreact

- option - adv - Bios

- power on

- next

- install now

- window 10 enterprise - next

- accept

- next

- next

- custom

- next

for every OS login as Admin

- Now on Client

- complete steps
- Name - Gondhar
- pass - Set@1234

Setting -
admin login

Do same with every OS.

- Start Services - in Local Servers & All Servers
 - Right click and start

- change computer name to normal name
- Restart machine

ADC
DSRM + 365
Repair mode 7:30

GC - (also no)
Database - all required
data of database
is stored

- Now DC
- Server manager
- Local server
- Net & Int
- Net. Conn.
- Eth0 props
 - Uncheck - IPv6 (to avoid unnecessary traffic)
 - IP - in IPv4
 - 162.168.10.
- Click refresh 
- Win Firewall - Public: on
 - Turn win Firewall on or off
 - Public net sett.
 - ⚡ Turn off wind. firewall.
 - (Both private & public)

~~SECRET~~ Vcenter 2016

- Now Vcenter 2016

- Server manager
- Local Server

- change IP add. - uncheck IPv6
192.168.10.2

- Pref DNS serve - 192.168.10.1

- Refresh

- Firewalls - Turn off

- Change computer name - Vcenter
- member of domain - CG.com

- CG\administrator

- pass word -

- OK

- restart now

- login as CG\admin (other user)

- on all the red services

- turn off firewall (all 3)

- AD users comp.

- CG.com - Computer - Vcenter

- Vcenter - Vcenter

★ Same goes for the client

give IP

- DNS 10.3

- Next

- Next

- Next

- Domain - CG.com

- ~~stuck~~ - Right click - Setting
= inc ram to 16 GB

- Now power off

- Processor - Select 2 option B

- DVD - Browse - C - Transsoft - Vmware

- power on machine

- login as domain admin (CG\administrator)

- This PC

- DVD drive D

- autorun

- install

- next

- accept

- Next

- Embedded Deploy

- Vcenter CG.com

- give password.

- Use windows local sys. acc

- Use embedded

- Next

- Next

- Next

- Install

7/01/2023

before this ptx check s.shots (7 Feb to 8.30AM)

Giving IP to esxi-1 & 2

7 Feb
8.30AM



Now on client

- on vcenter browser

- vcenter CG.COM - RC

- New DataCenter

- name Datacenter 1 / India

- inside created DC1 - RC - New cluster

- Name - Bangalore - OK

- Bangalore - RC - add host

- IP add - 192.162.10.7

- User name - root pass - Set @ 1234

- Yes

- Next

- Next

- finish

Now Esxi-2

- F2

- enter pass. - enter

- config man. net.

- IPv4 config

- Set Static - space bar

- IPv4 add - 10.9

- De gateway - 10.1

- DNS config

- pri DNS Serv. 10.1

- esc

- Y

- Test man. network

Ping #1 - 10.2
#2 - 10.7

① Clone to Vm - final
clone to temp

②

③

prodigy
tech

Cyber
friend

tech

- Ind
- Bang
- WIS 2012
- Check SS

~~Vcenter.eg.com~~
~~new datacenter~~

1 - Next
2 - Next
3 - Next
4 - Finish

→ ? opened vms in server 2012

- Opened vms in server 2012
- Name VM alarm
- Alarm
- VM CPU usage — VM state
- Warning — Suspend

- * Ind - Bang - win server 2012 - clone -
clone to temp.
- o Name - temp server
- Select IP 10.9.
- Storage - next
- finish

How to create alarm -

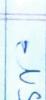
Project photo -

Q. - from SS 16:49 .

(B)

Group
Group of 5
a DC - Server 2012
Create users (G1)

Create users (G1)



Windows - Comp management

- Local users & Grps

- User

- New user

- Give any name (G2)

- Password

- Parvati

- Pass.

- OK

Now to Vcenter

- Comp management

- Local users & Grps

- User

- New user

- Parvati

- Pass.

Now on Client



- Administration

- User & Groups

- Domain: vsphere.local



- G1 user 1

- Pass.

- OK

- G2 user 2

- Pass.

- OK

7

Page No.

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Page No. 3

= logout from Admin@vsphere

- login to vcenter ~~parvati~~ local user
- show that it's working.

Logout

= login to vsphere.local \ CGUser1

- pass
- : loading

- Logout

= login to vsphere.local \ CGUser2

- Create ~~new~~ new VM
- tests

- Logout

= login administrator@vsphere.local

- assigned role
- no access
- Add .
- OK
- Now

CGUser2 = OK

- assigned role
- admin .
- add .

Diski Resource Scheduler

Vapp



- India
- Bangalore - config
- Vsphere DRS - edit
- Turn on
- Vsphere availability - edit
- D Tom on Vsphere HA
- D - Unprotective HA



17.05.17 screenshot

- make DRS & HA on
- Bangalore - (this is a cluster)
- new app
- next
- name vapp1
- select location
- Next
- finish

- Bangalore - RC
- New Resource pool
- Name - shares
- move a VM machine to shares
- Select machine (RC)
- move to
- shares
- 192.168.10.9

Resource - To restrict
Power - unnecessary use
of CPU from
users

Join esxi to domain

10.7

Configure

TCP/IP config

Edit

DNS config

Host name: ESXi-1

Domain: CG.com

OK

scroll down - Authentication

Service

join domain

Domain: CG.com

User name: administrator

Password: -

OK

DC

AD users & computers

Show ESXi -
Computers

(1)

Vms

Virtual machines

Create a Stand Switch
 - ESXi-1 (16.1) ESXi-2 (10.9)

- Hardware not supported
- Trial version
- Connection, Disconnection & maintenance mode

o maintain mode:-

- RC on host (IP)
- maintenance mode

o Connection / Discon.

- RC on host
- Disconnected

Global inventory lists

Go to Client +
 - Host (IP) 10.7.

- RC - Add networking

-① Vir mac...Stand Switch

-• new Stand S/w

- + OK

- next

- name - uswitch1

- next

- finish

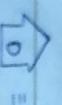
Now

- Config

- Networking

- Virtual Switches

- edit (just review)



Global inventory lists

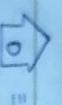


Switch

- Virtual Standard Switch

- Vir. distributed Switch

Uplink - load balancing.



Global inventory lists



Switch

- Virtual Standard Switch

- Vir. distributed Switch

Uplink - load balancing.

Some process

Some process

~~India~~ India (Data) (RC)

- Distribut S/w

- New Dis S/w

- Dswitch-1 - Name

- Dis Switch 6.5

- No. of uplinks: 4

- Port group name - Dport group name 100

- finish

To check:

- india

- networks

- Dis ~~switches~~ port group.

- Manage policies (3rd icon)

(Review)

- Now

~~OK~~ Actions ▾

- Add & manage hosts

- + New hosts

- + Add hosts

- + New hosts

- + Add hosts

- + New hosts

7 Finish ~~Kernel~~

5

10.7 VmKO

Ass. port grp.

Ass. port grp

Dport grp 106

Dport grp 100

OK

6 Next

Next

Host (ip 10.7)

- Add networking

- @Vmkernel

- next

- @Select existing network stand s/w

Browse

Vswitch1 - OK

- next

- name: Vmkernel1

~~D~~ Selected all

Next

Use static IPv4

+ IPv4 = 192.168.10.75

255.255.255.0

give 10.47 for

10.9 Vmnic0

Ass. uplink

Ass. uplink

Uplink 1

Uplink 2

OK

10.9

Vmnic1

Uplink1

Uplink2

OK

- Finish

PNS - 1071

better understanding)

(Here I have
mistakenly given
value 10.47 for
IPV4)

ANS See

Configure
VMkernel adapters

Same with 10.9

10.9

- add networking

@ VMkernel Net. adapter

④ Select ext 1 Stm. s/w

- VSwitch1 - OK

- Next

- Name VMkernel1

D Select all for all Services.

- Next

④ Use static IPv4 setting (give 10.99.1.100 for better understanding)

IPv4

192.168.10.100

D Subnet mask (give 10.99.1.0)

Gateway

DNS

192.168.10.1

Next

Finish

Vsan config

10.7

config

Netw.

config

Vir S/w

config

VSW O

config

edit

Create a new Vir. mac.

Typical - Next

Later - Next

Linux

Other & Linux 64-bit or Later Kernel 64-bit

Next

Name - VSAN

Folder - VMware admin

New folder

VSAN - Select

20GB - Store

Customize num to 1GB

Finish

Edit virtual mac.

CD/DVD - Use ISO - Browse

Drive - Insert soft - VMsoft - OPEN

Filer

203X86

- OK
- power machine

- Enter key 1st option
→ Skip

"Welcome!" → Next

"Keyboard" → Next

"Next"

"Automatically" → Next

"Yes"

"Keep all" → Next

"Next"

~~Enter~~ Using Spacebar uncheck DHCP

Edit → Enter

Check config using DHCP by

Space bar

→ P add 192.168.10.90

→ D eth0 (check by space)

Gateway 10.1

Pri DNS 10.1

→ Next

Supervisor password → Next

Root pass. Set @ 1234

→ Next

Reboot

Go to Client

New tab

192.168.10.90:446 (IP given in USM)

more info

Go onto the webpage

username - root
pass - set @ 1234

Logout

Login using Openfiler - username

password - password

Shared Storage

USAN

Setting

Add

Hard disk

SCSI

Create new

Next

8 GB - store - Next

Restart USAN

Client - Serv. stat.

Client

Service station - Block devices

Services

iSCSI target - enable

Volume tab

Block devices

/dev/sdb

(scroll down)

Create (Phy. vol.) creation

IGN qualified no label which
represents storage

- Volume group
volume grp name - "iscsi-storage"

dev/sdb1

Add volume grp

Add volume

- Volume name - ISCSI-VOL-1

Volume des: ISCSI-VOLUME-1

Required space (MB): copy from above

Filesystem: - ISCSI

Create

- iSCSI targets

- Add

(scroll down) Update

NOW, in iSCSI targets

- LUN mapping

- MAP

for creating network ACL

- Local network

- (scroll down)

- Net. access. Config. netmask type

192.168.10.0 192.168.10.0 255 ... 0 share

Update

- Volumes

- iSCSI targets

- Access - Allow

- update

Now, Client

Vsphere web client

login.

Host 10.7

Configure

Storage

Storage adapters.

FOR

+ soft. iSCSI adapter

- OK

iSCSI soft. adapter

Rm

- Network port B!

- Add ...

Add Lan card to esxi1

10.7

Name

With

1 - 0Vm kernel

2 - Open Stack - S/w

3 - vmlinuz2

10.9

OK - Next

4a Name - Vmkernel - 2

for 10.9

Select all

Next

4b Quse static
ip4 = 192.168.10.71

255 - - - 0

Override

5/2/2023

5 finish

6.7 Storage adapter
iscsi

copy step of



see screen shots of

18.00 10:30
8/02/2023

host 10.7. Reset to factory defaults.
(host section)
login again.

migration :-

✓ vir. NYC

Migrate.

1 - ① Change both.

host

2 - Select another host rather than selected host

3 - ~~host~~ Screen shot 10:30 PM : Shared data.

4 - Select networks - Next

5 ~~host~~: finish

go to another host.
showed data store.

JUST check IP change

o High availability

- Schedule DRS

- Go to cluster → Services → vsphere DRS

- edit →

- DRS → Fully automatic

- power man → automatic

of vsphere availability.

- Turn on both

Failover Responses

- (as it is)

Review Proactive HA failures

(as it is)

Admission Control

(as it is).

Heartbeat data shared data → OK

Advanced options → OK

- Create a Virtual machine

- New VM -

fault tolerance

- Delete all machines /

DRS - OFF

DRS →

DRS →

OFF → ON
Create new VM
Create reboot ESXi 5.1

Search for fault tolerance

NTP Server

- maintain time synchro.

for different

time zones.

- ESXi - Host -

- config time config

- Edit

- use network

- Give IP of vcenter Server

- Start & Stop manually

OK.

Do if for both

TOP