1. **Installing** Servers OS on clients

2. LAN : Bring all users in LAN

   Rename Systems : Client 1 , DC , Client2

   Client1   IP :10.0.0.2

   DC : IP :10.0.0.1

   Client2: IP :10.0.0.3

3 .**Configure DC**

   3.1 Prequisite to install AD

   1. System should have Server OS
   2. System should be in a workgroup
   3. Static IP address
   4. NTFS Partition
   5. DNS

   3.2 Steps to Configure active directories

   1. Go to m/c you want to make DC
   2. Make sure you are logged in with Administrator
   3. run – dcpromo.exe
      - Features : DNS server
      - Installation Wizard
        i. Create a new domain in new forest
        ii. FQDN : say for example "cloud.com"
        iii. db folder
        iv. log files
        v. password

   3.3 Verification for DC to check all services are properly installed

   3.3.1 Go to   →Start → Administrative tools (Now you will see this 5 features)

   i. 1.Active Directory Administrative Center
   ii. Active Directory Domains and Trust
   iii. Active Directory Module for Windows Power Shell
   iv. Active Directory Sites and Services
   v. Active Directory Users and Computers

3.3.2 Go to →Computer →System Properties

You will notice →

Full computer name : "DC.cloud.com"

Domain : "cloud.com"

3.3.3 Go to "Network and Sharing Center"

You will notice →

Domain Network : "cloud.com"

4. Adding Client to Domain "cloud.com"

1.Login into "DC" with Domain Administrator

"cloud.com\adminitrator" or administrator@cloud.com

2. Set Preferred DNS : 10.0.01 on "DC" (Network sharing Center → IPV4 Properties)

3. Go to your "Client"

"Note : Make sure you are logged in as **Normal Client Administrator**"

4. Set Preferred DNS : 10.0.01 on both "Clients" (Network sharing Center → IPV4 Properties)

5.At Client Side:

My Computer →Properties→Workgroup→Change Settings

Domain: "cloud.com"

Login with Client Administrator Credentials

→Welcome to cloud.com ←

5.Installing HyperV on clients

Refer Screenshot : *"3.Installing Hyper V at Clients(login with cloud domain admin)"*

"Note : Make sure that you are logged in with cloud domain admin on Client"

6.Configuring Storage Area Network (SAN) using starwind at DC

Refer Screenshot : *"4.Starwind at DC [login with cloud domain admin]"*

"Note : Make sure that you are logged in with cloud domain admin on DC"

7.ISCSI Initiator on Clients

Refer Screenshot : *"5.ICSCI Initiator on Clients"*

"Note : Make sure that you are logged in with cloud domain admin on Client"

8.Installing Failover Cluster (F.O.C) feature on Clients

Refer Screenshot : *"6.FOC feature on Clients"*

"Note : Make sure that you are logged in with cloud domain admin on Client"

9.Creating Virtual Machines on Clients

Refer Screenshot : *"7.Creating Virtual Machines on Client"*

"Note : Make sure that you are logged in with cloud domain admin on Client"

10.Perform Failover

10.1 : By Closing Running Machine

*10.2 : By removing **Power Socket or Power Connection** of any one client*

Important Suggestion : You will be asked to set administrative password on each machine and further for cloud domain . For practice or for the time being keep all the passwords same to avoid confusion same

"You will notice that state of the virtual machine is restored"

*Likewise you can create **deligates for DC** for complete Backup of your servers*