ANISH ADNANI

EXPERIMENT 4

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Date	

sin: Implementation of Ball metal virtualization using XEN

Theory:

what a KEN?

The XEN hypervisor, the most powerful open source industry standard for virtualization, it offers forestall, efficient and secure feature set for virtualization of X86 and other cry architecture. It supports a unde range of guest 0s including windows, linux, solaris and various versions of BSO 65.

In KEN Systems, the KEN hyperison is the lowestand most privileged SIW larger. This layer supports one
or more great of scheduled on physical terminology
domain is executed automatically. When hyperison loots of
receives special privilages and direct access to all
physical hIW by default. The system administrates
can log into demo in order to manage any additional
guest of called user domains in KEN Terminology

* Ball metal hyperison

- A Bare metal hypervisor or a type I hypervisor is untralization slw that is installed on how directly.

- At its core, the hypervisor is the host or os

- It is structural to allow for Ultralization of underlying how components to function as if they

Teacher's Sign.: ____

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	have direct access to h/w.
	Ym1 Ym2
	11.12
	Application Application
	Guest os Type 1 Rypenson
3	teypes wicos
	Hardware
	- The hypervisor enables computer to expercite its US from its core physical structure and 14/w
	- From et is parition, the hypervisor can give a physical host the ability to operate many virtual units
<u></u>	- It allows for the opposituality to how many clients On same server
7 - 7 -	- tack client will experience a circulation pits own dedicated server
	- The tryper-v, system xeasure respectively represent
	majority of hypercisor.
	Features
	- Consolidation
	- increased utilization

Teacher's Sign.: _

- Rapid provisioning
- Pyranic faut tolerance against s/w failures
- HIW fault tolerance
- Ability to securely depende virtual os
- Ability to support legacy s/w as well at new os inclances on same computer

* Dan Metal

It is just another way of saying 'endicated server'

This is a single tenant environment with direct
access to underlying how technology without any
hyperisses overhead Bare metal on support many
kinds of or on top of its one performance

The term base metal refers to direct access to h/w. It includes the ability to severage are of its specific features which would not be accessible with type 1 or 2 hypervisor.

* Benefits of Bare metal hypervisor

- Backup & protection
- Improved How utilization
- Improved ability
- Adequate Security
- Qos
- Flexible deployment
- lost effective for Data Transfer

Teacher's Sign.:

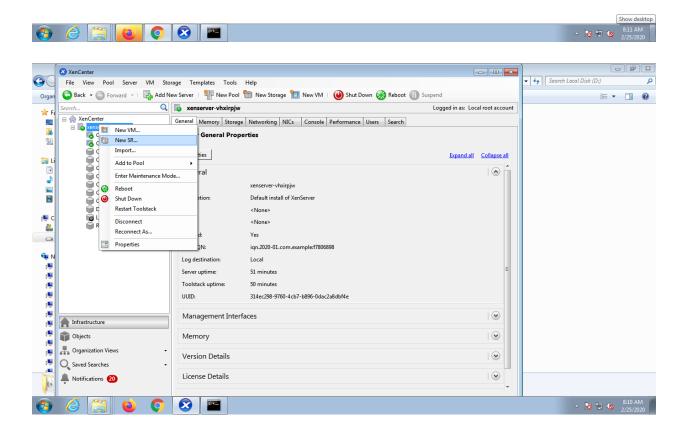
	Page No. 4			
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	Conclusion			
	Implementation of Base meral Unitization is successfully			
	Conclusion: Implementation of Bare meral University done using Xen surer.			
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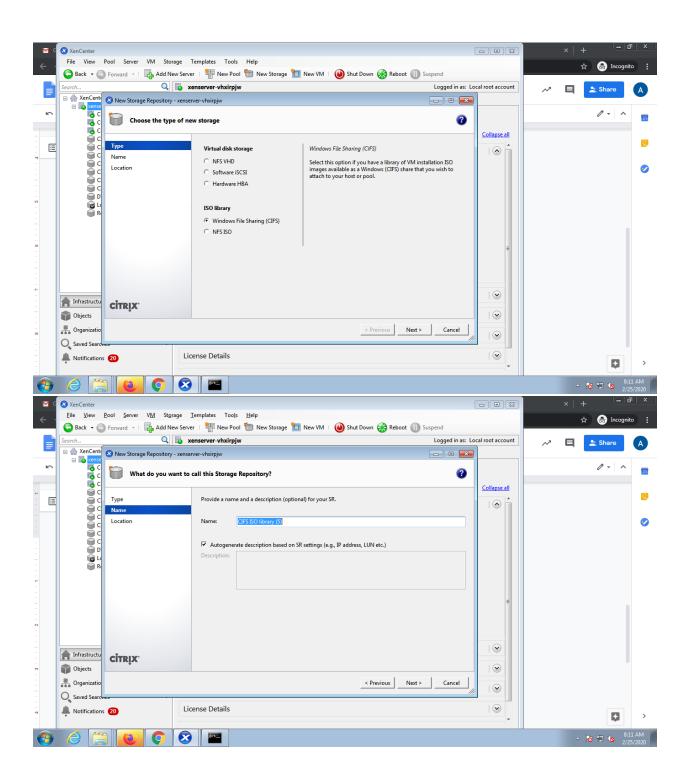


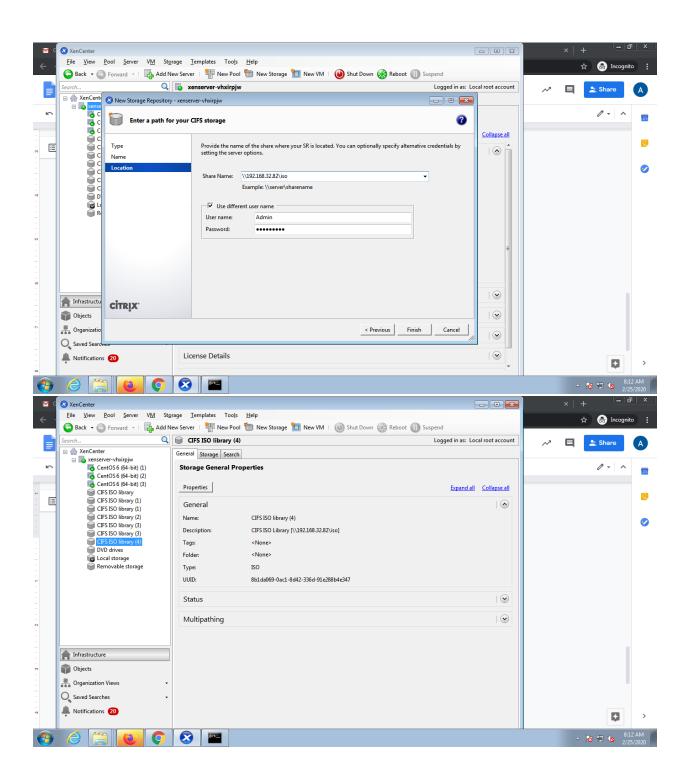
Citrix Systems, Inc. XenServer 6.5.0

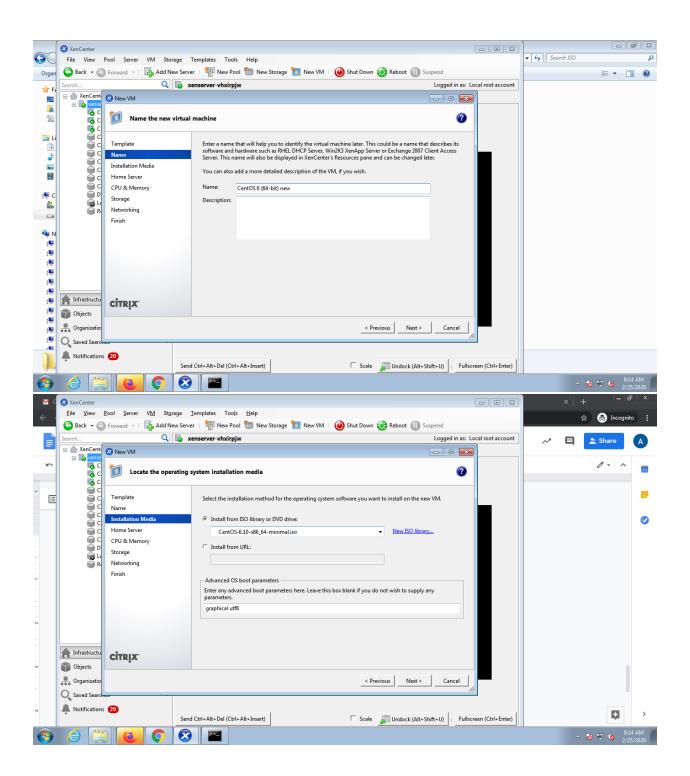
XenCenter CD image

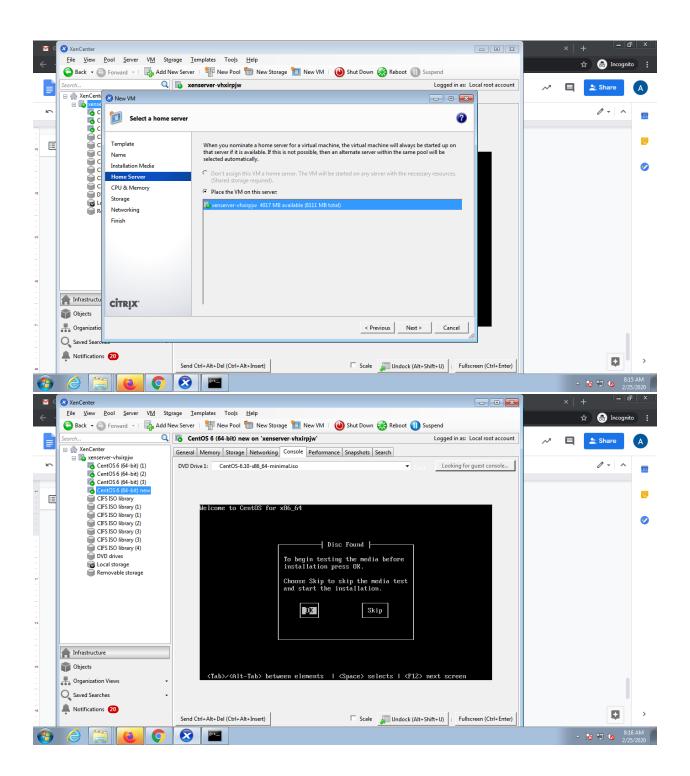
XenCenter installer

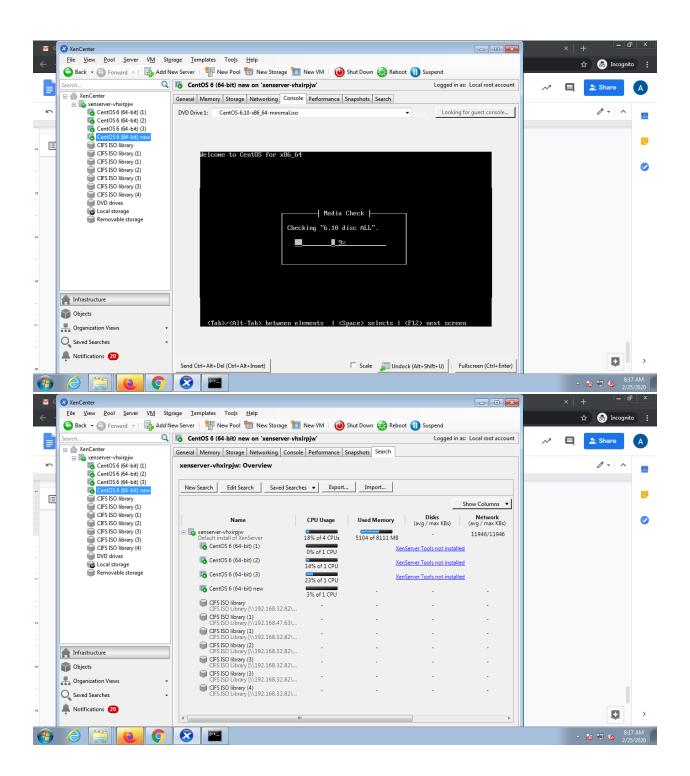


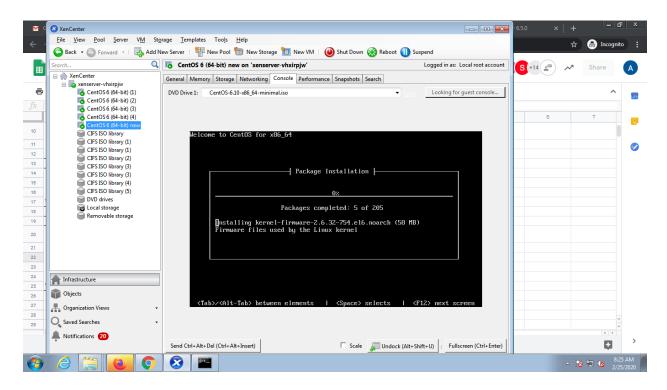




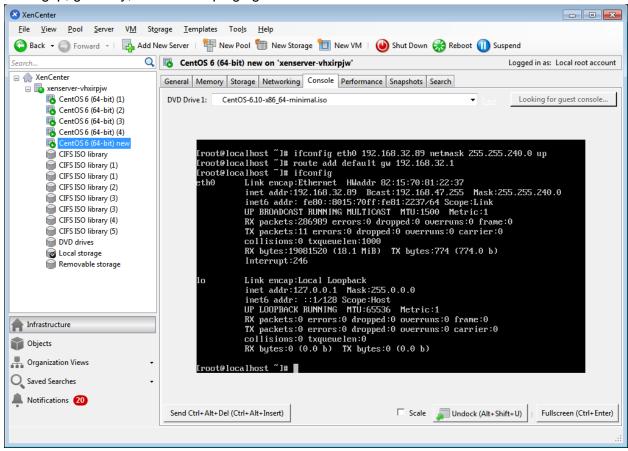








Setting ip, gateway, subnet and pinging from windows



```
Windows IP Configuration

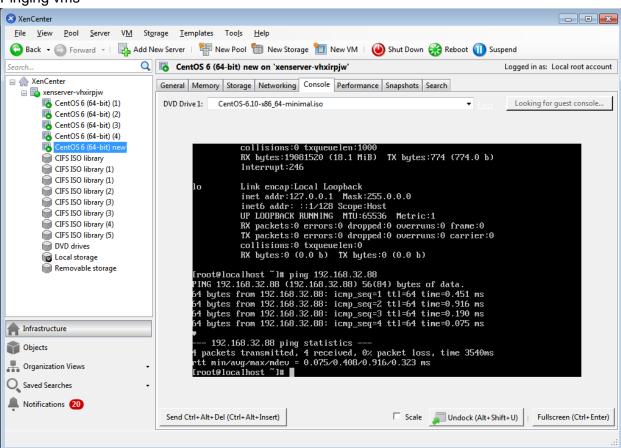
Ethernet adapter Local Area Connection:

Connection-specific DNS Suffix :
Link-local IPv6 Address . . . : fe80::3c3a:ba3d:aa8e:ec60x11
IPv4 Address . . . . : 192.168.47.63
Subnet Mask . . . . : 255.255.240.0
Default Gateway . . . : 192.168.32.1

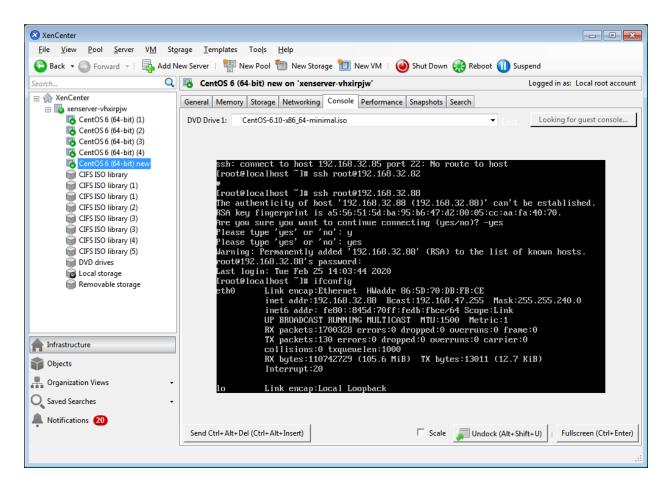
C:\Users\Admin\ping 192.168.32.89

Pinging 192.168.32.89 with 32 bytes of data:
Reply from 192.168.32.89: bytes=32 time=4ms TTL=64
Reply from 192.168.32.89: bytes=32 time(1ms TTL=64
Reply from
```

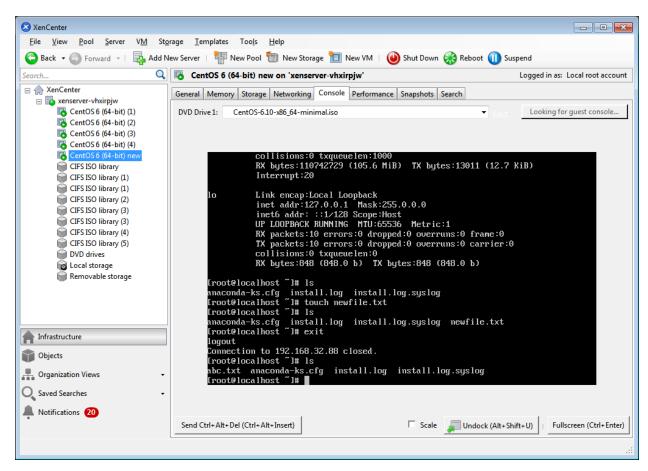
Pinging vms



Ssh between vms



New file created by other pc



```
admin-11@admin11-OptiPlex-3020:~$ ssh root@192.168.32.88

The authenticity of host '192.168.32.88 (192.168.32.88)' can't be established.

RSA key fingerprint is SHA256:p01PYqeICW8dXfyLLGuED1lc3J8CVycqHQdFSjzLaWw.

Are you sure you want to continue connecting (yes/no)? yes

Warning: Permanently added '192.168.32.88' (RSA) to the list of known hosts.

root@192.168.32.88's password:

Last login: Tue Feb 25 14:24:04 2020 from 192.168.32.89

[root@localhost ~]# ls

anaconda-ks.cfg install.log install.log.syslog newfile.txt

[root@localhost ~]# |
```

```
[root@localhost ~]# exit
logout
Connection to 192.168.32.88 closed.
```