# EBS, S3, EFS Hands On
## (Cloud Storage, DAS, NAS, SAN, Object Storage)

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# Type of Storage

- DAS (Direct Attached Storage)

- NAS (Network Attached Storage)

- SAN (Storage Area Network)

- Object Storage

# Type of Storage

- DAS (Hard Disk, USB Drive)

- NAS (Samba, NFS) (File Storage)

- SAN (Target Server + LVM) (Block)

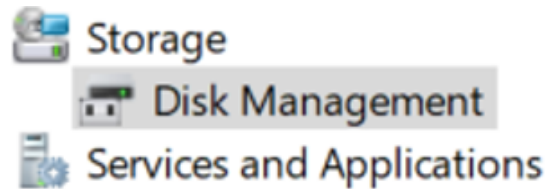- Object Storage (Swift, Ceph) (Object)

# Type of Storage

- DAS (Instance Store)

- NAS (EFS, Elastic File System) (File Storage)

- SAN (EBS, Elastic Block Store) (Block)

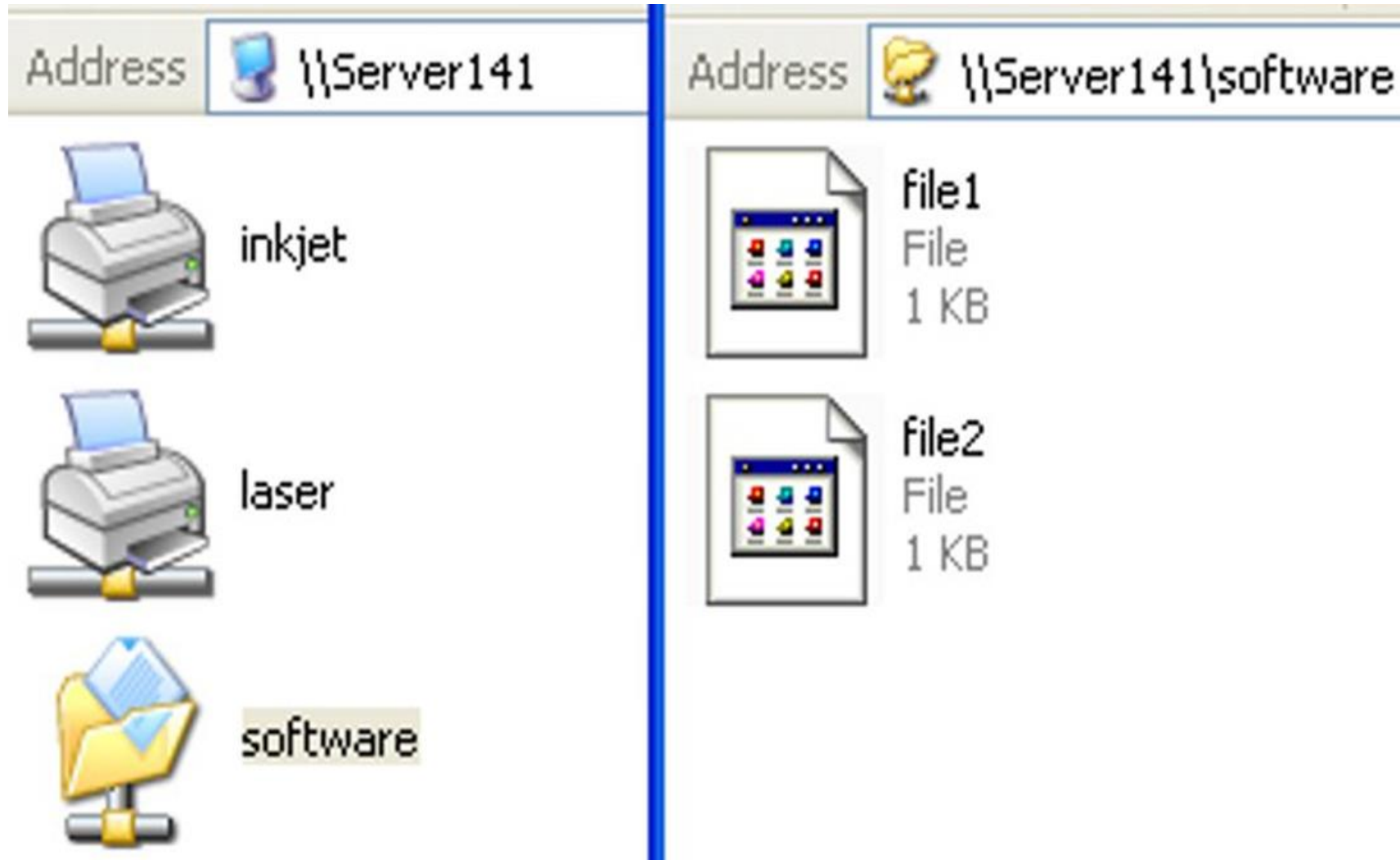- Object Storage (S3, Simple Storage Service) (Object)

# Type of Storage

- DAS (Direct Attached Storage)

- NAS (Network Attached Storage)

- SAN (Storage Area Network)

- Object Storage
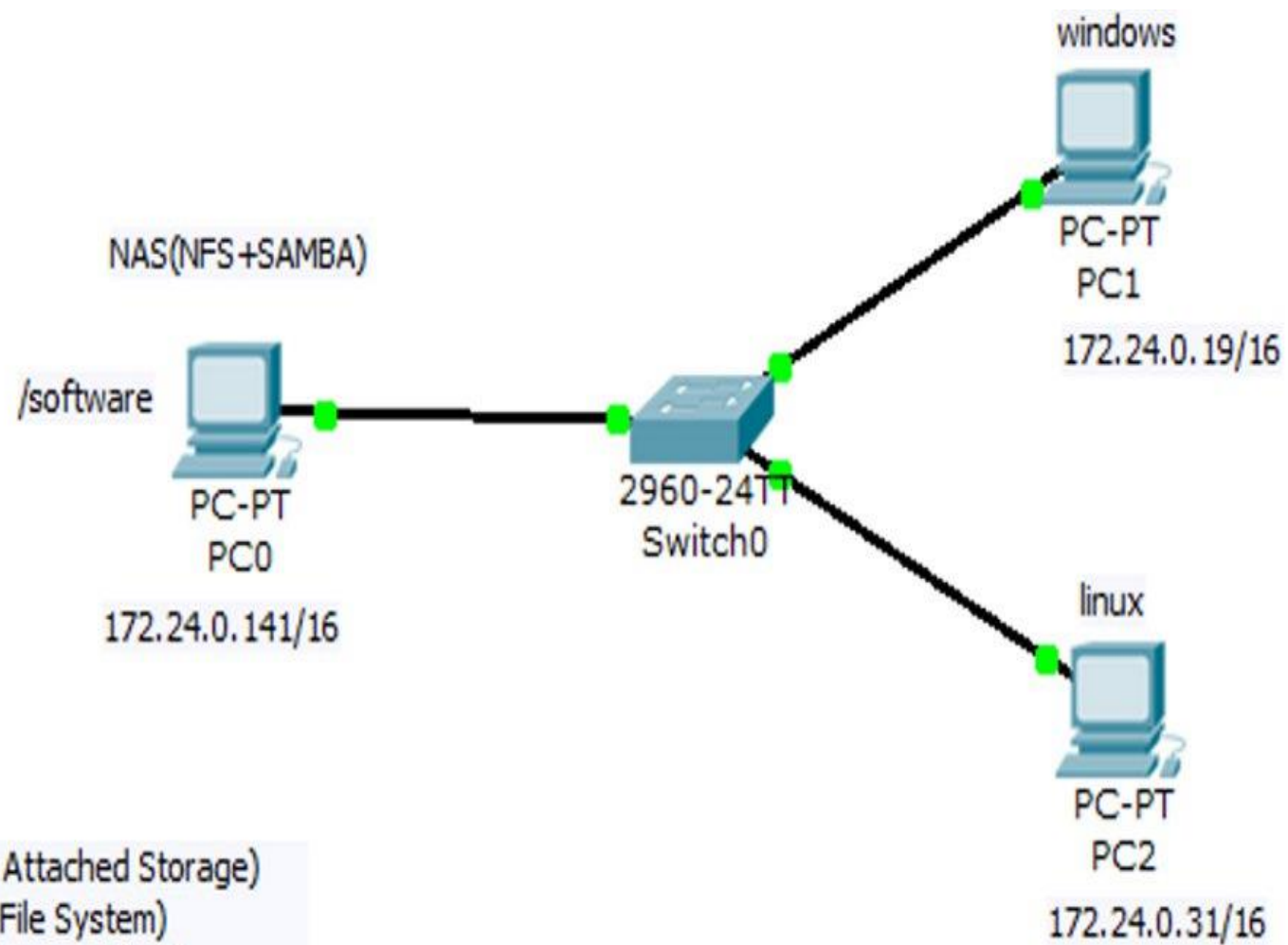
# Direct Attach Storage (DAS)

# Network Attached Storage (NAS)

# Network Attached Storage (NAS)

windows

PC-PT
PC1

172.24.0.19/16

NAS(NFS+SAMBA)

/software

PC-PT
PC0

2960-24TT
Switch0

172.24.0.141/16

linux

PC-PT
PC2

172.24.0.31/16

NAS(Network Attached Storage)
NFS(Network File System)
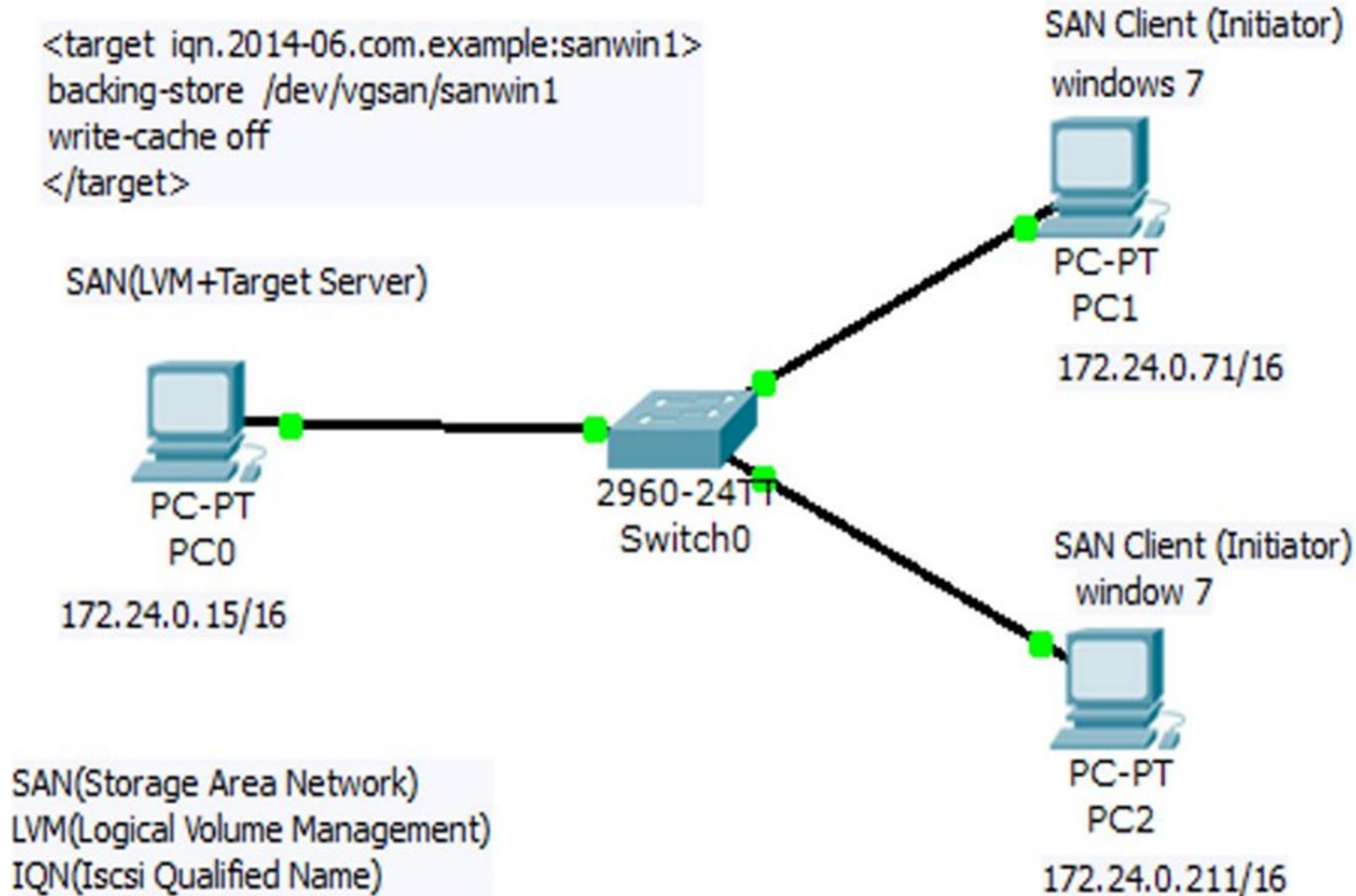SMB(Server Message Block)
CIFS(Common Internet File System)

# Storage Area Network (SAN)

# Storage Area Network (SAN)

```
<target iqn.2014-06.com.example:sanwin1>
backing-store /dev/vgsan/sanwin1
write-cache off
</target>
```

SAN(LVM+Target Server)

SAN Client (Initiator)
windows 7

PC-PT
PC1

172.24.0.71/16

PC-PT
PC0

2960-24TT
Switch0

172.24.0.15/16

SAN Client (Initiator)
window 7

PC-PT
PC2

172.24.0.211/16

SAN(Storage Area Network)
LVM(Logical Volume Management)
IQN(Iscsi Qualified Name)

# Simple Storage Service (S3)



wel to S3 object store static website