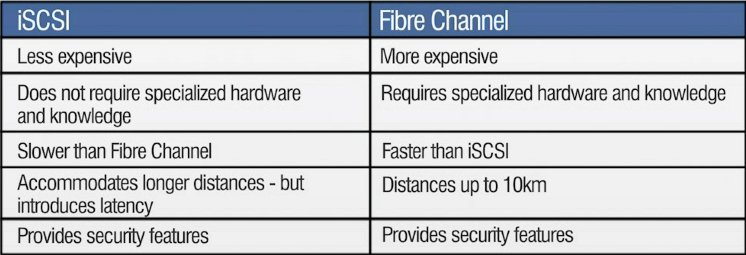
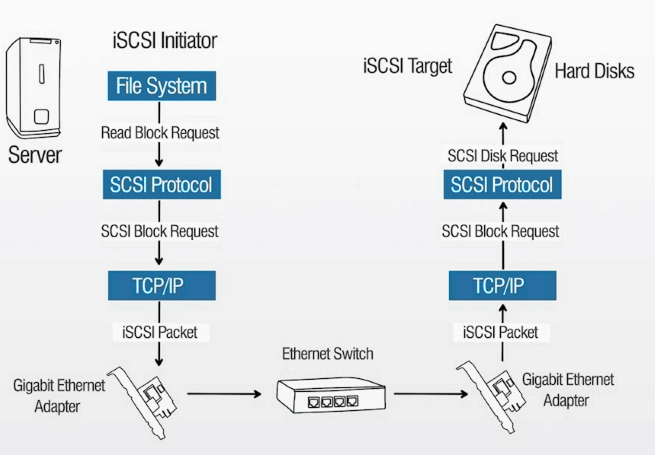
Fibre channel SAN- every computer is connected to a SAN switch to an external RAID device.

iSCSI SAN- Ethernet switch connected to computer through fiber optic to a raid



Cluster in a SAN- the users are a signal device and can replace any device that fails

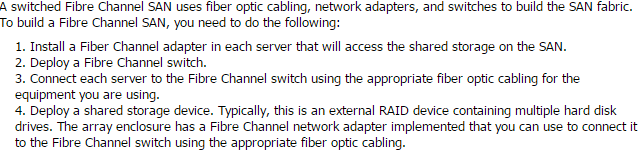
NAS load balancing- speeds up performance by splitting data

NAS clustering- two NAS devices able to recover from a failover

Domain control- back up information

SAN- SCSI protocol

NAS- FTP



VoIP- less expensive than phone carrier, phones over the internet. Dis adv: inconsistent quality, Echo, Delay, power loss, and special equipment.

Protocols for VoIP- SIP and RTP

SIP- used to maintain, set up and terminate VoIP calls

Switches features used VoIP- VLAN and PoE

PoE- is able to supply power though a switch port



Jitter- when calling someone over VoIP unusual sound effects is called jitter.

1%- packet loss is noticeable in voice traffic

Media Gateway Control Protocol MGCP- VoIP used to interface with the PSTN

Presence information- allows users to know the availability for communication to one and another

Unified communication- integrates calls emails and instant messaging to a signal platform

Session Initiation protocol- used during a call to control process of multimedia communications

Hypervisor- allows virtual machines to interact with the hardware without going through the host operating system

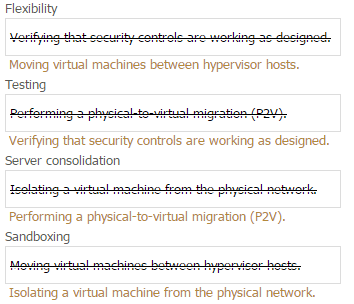
Full Virtualization-completely simulates a real physical host

Virtual switch- virtual machines to communicate with each other

Advantages of virtualization- Centralized administration, and easy migration of system to different hardware

Virtual servers- to provide a DHCP and file services to a physical network

Hypervisor with multiple virtual machines- connect the virtual network interface in the virtual switch, create a new virtual switch configured for host-only networking



Create a new virtual switch configured for a bridged networking; connect the virtual network interfaces in the virtual machines in the virtual switch.

Virtual router- Multiple networks can be connected to a single interface

Implement a virtual firewall within the hypervisor- to monitor and filter VM to VM

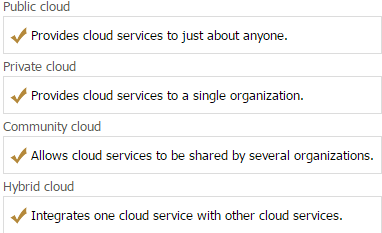
Multiple virtual NIC can be added to a virtual machine, virtual NIC need the appropriate driver installed to function.

Cloud computing eliminates buying duplicate software for each device.

SaaS- delivers software applications to a client either over the internet or on a local area network

PaaS- delivers everything a developer needs to build an application onto the cloud infrastructure

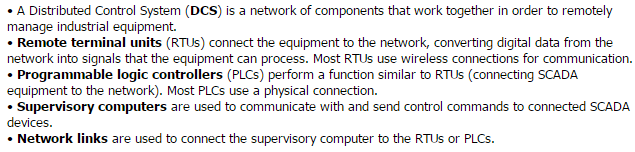
Not True- Cloud computing requires end user knowledge of the physical location and configuration of the system that delivers the services



IaaS- infrastructure as a service provides adequate storage and additional

Supervisory control and data acquisition- install the latest firmware updates from the device manufacturer, verify that your network existing security infrastructure is working properly.

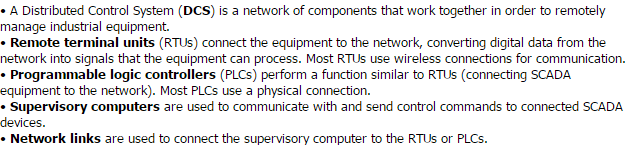
To increase security posture- install the latest firmware updates from the device manufacture, verify that your networks existing security infrastructure is working properly



You manage the information systems manufacturing firm- verify that your network existing security infrastructure is working properly, install the latest firmware updates from the device manufacturer.

You manage the information systems for a large co location data center- verify that your network existing security infrastructure is working properly, install the latest firmware updates from the device manufacturer.

Why do attackers prefer static environment devices to conduct distributed network attacks- These devices are typically more difficult to monitor that traditional network devices, these devices tend to employ much weaker security than traditional network devices.



SCADA system- is an example of technology embedded within networked devices associated with automated factory equipment.

SCADA systems are typically implemented using which of the following components- Remote terminal unit (RTUs) and programmable logic controllers (PLCs).

What is the risk associated with smart technology used in the network devices such as smart refrigerators, environmental controls, or industrial equipment- they are vulnerable to exploits due to weaker security.

ISCSI Initiator- when you’re in the process of configuring an iSCSI storage area network for your own.

Step1- installs a fiber channel adapter in each server that will access the shared storage on the SAN

Step2- Deploy a fiber channel switch

Step3- Connect each server to the Fibre channel switch using the appropriate fiber optic cabling for the equipment you are using

Step4- Deploy a shared storage device, such as an external RAID device containing multiple disk drives

iSCSI SAN does NOT need- Special hardware and knowledge to implement

The users on the network see only a signal file server- NAS with Clustering

Are typical components of a NAS device- One or more NICs , a minimal network OS

In a SAN implementation the servers that connect to shared storage devices are called initiators