Storage, Application Virtualizaiton

Storage Devices

Collection of methods and technologies that can capture and hold digital information on media.

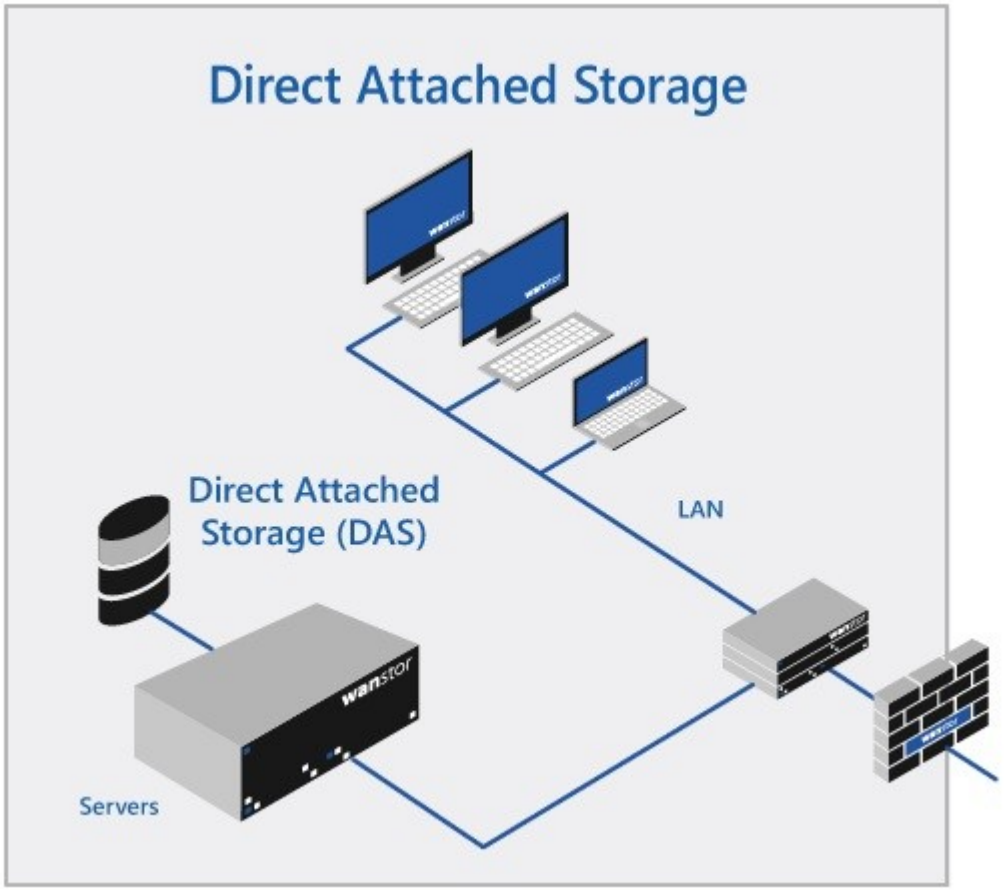
Storage Types

Direct-Attached Storage (DAS) :

SAN (storage area network)

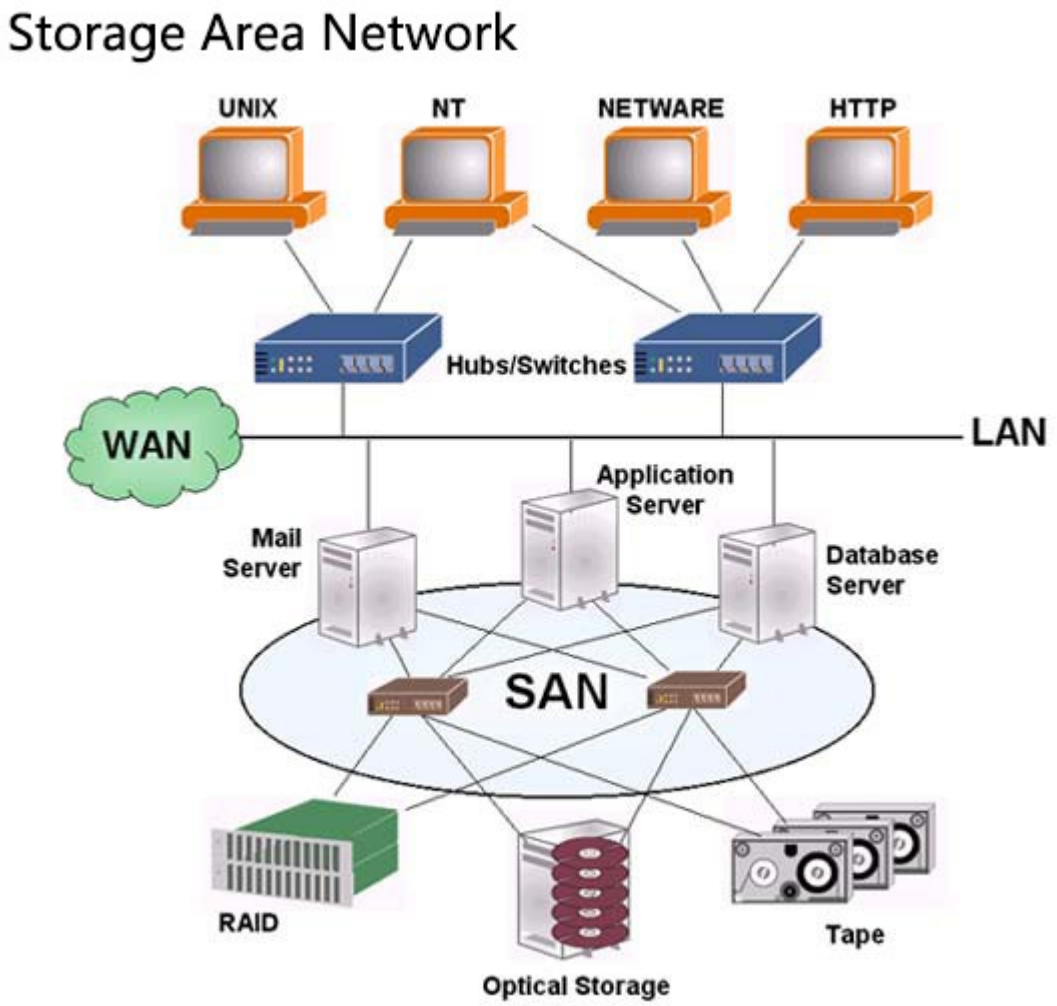
NAS (network attached storage)

Direct-Attached Storage (DAS)



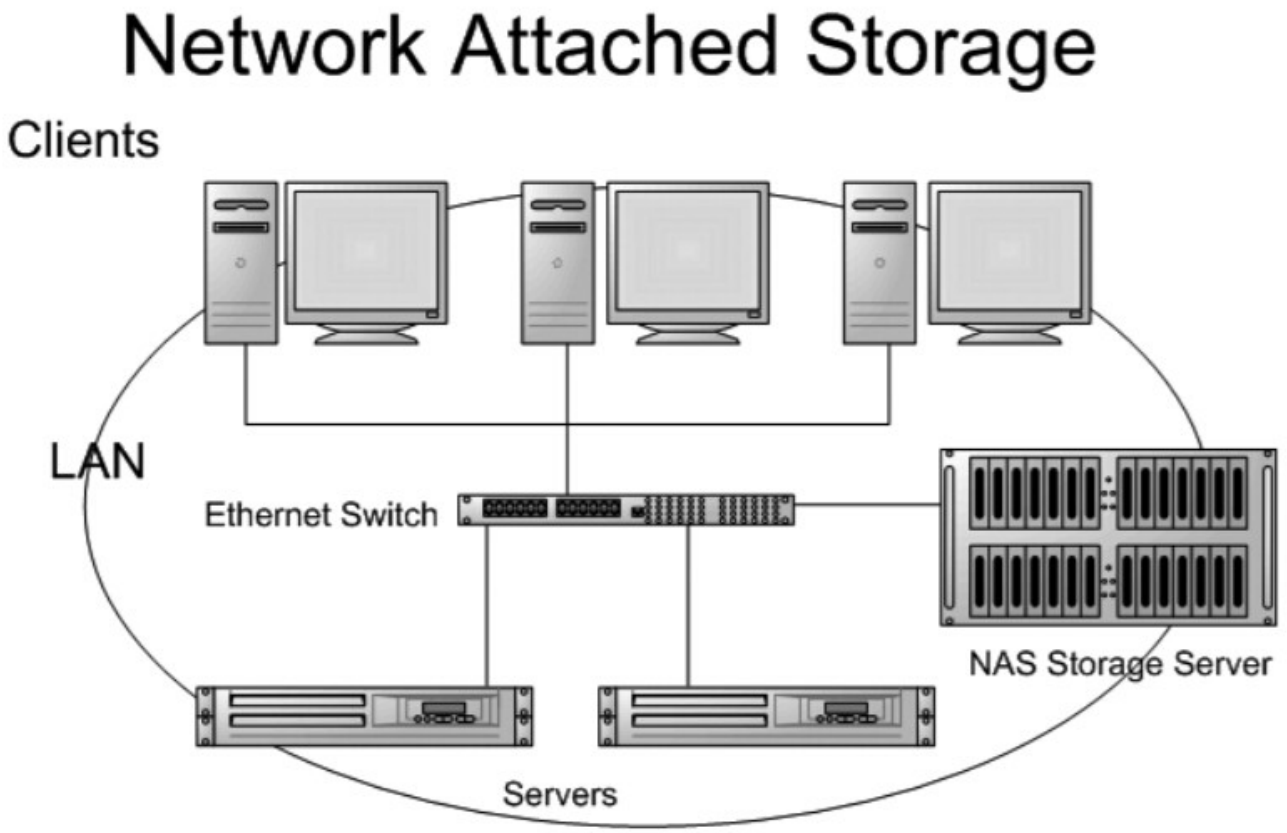
Storage is attached directly to a computer without going through a network

Storage area network (SAN)



computer network which provides access to consolidated, block-level data storage

Network attached Storage (NAS)

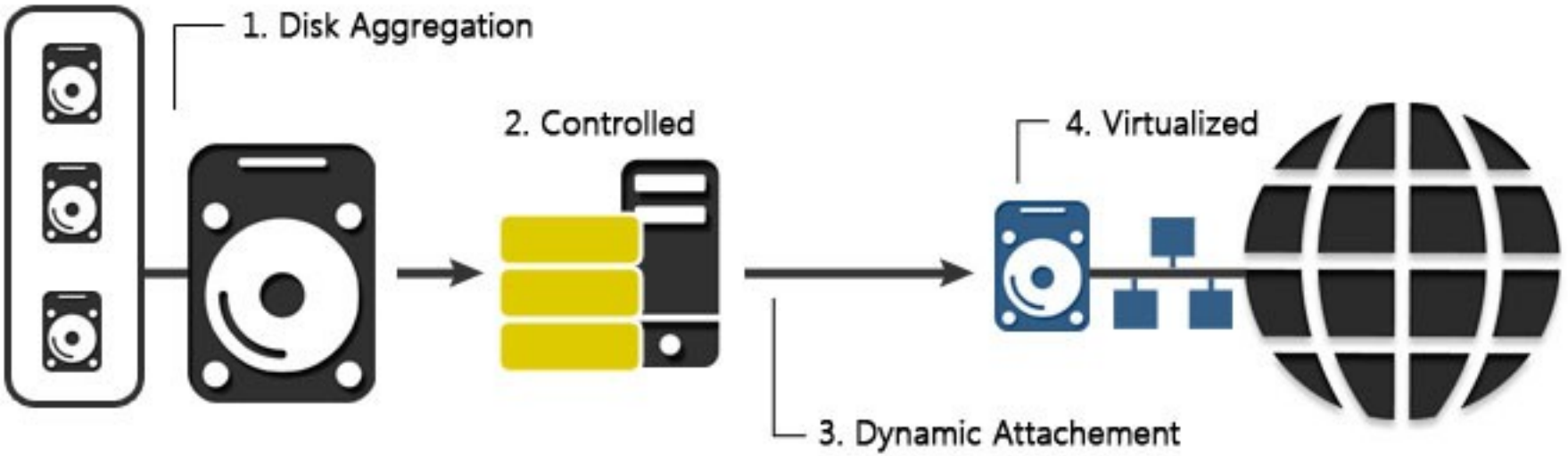


Network attached Storage (NAS)

Enables multiple users and heterogeneous client devices to retrieve data from centralized disk capacity.

Users on a local area network (LAN) access the shared storage via a standard Ethernet connection.

Storage Virtualization



Storage Virtualization

Abstraction process that helps in the grouping of physical storage from a number of network storage devices. Therefore, it works as a single storage device(Consolidation).

Abstracting the Storage devices into single logical Process of representing physical storage in the logical form to any server.

Storage Virutalization Method

Exsisting small disks can be aggreaged into a massive network attached storage (NAS).

The aggregated disk is controlled and monitored by the storage server in realtime.

The storage can be dynamically attached to any devices on the network.

The disk is now virtualized, and so can be used as if it is physically attached on the devices.

Storage Virutalization TypeS

Block level storage virtualization

Block level storage virtualization is implemented in “SAN (storage area network)” and it provides a translation layer in the SAN, between the hosts and the storage arrays..

Storage Virutalization TypeS

File level storage virtualization

File level storage virtualization happens at NAS (network attached storage) level and help in solving NAS problems by removing the dependencies between the data accessed at the file level and the location where the files are physically stored.

Storage Virutalization Benefits

It is highly scalable.

It allows easy addition and deletion of storage without affecting any application.

Easy data migration.

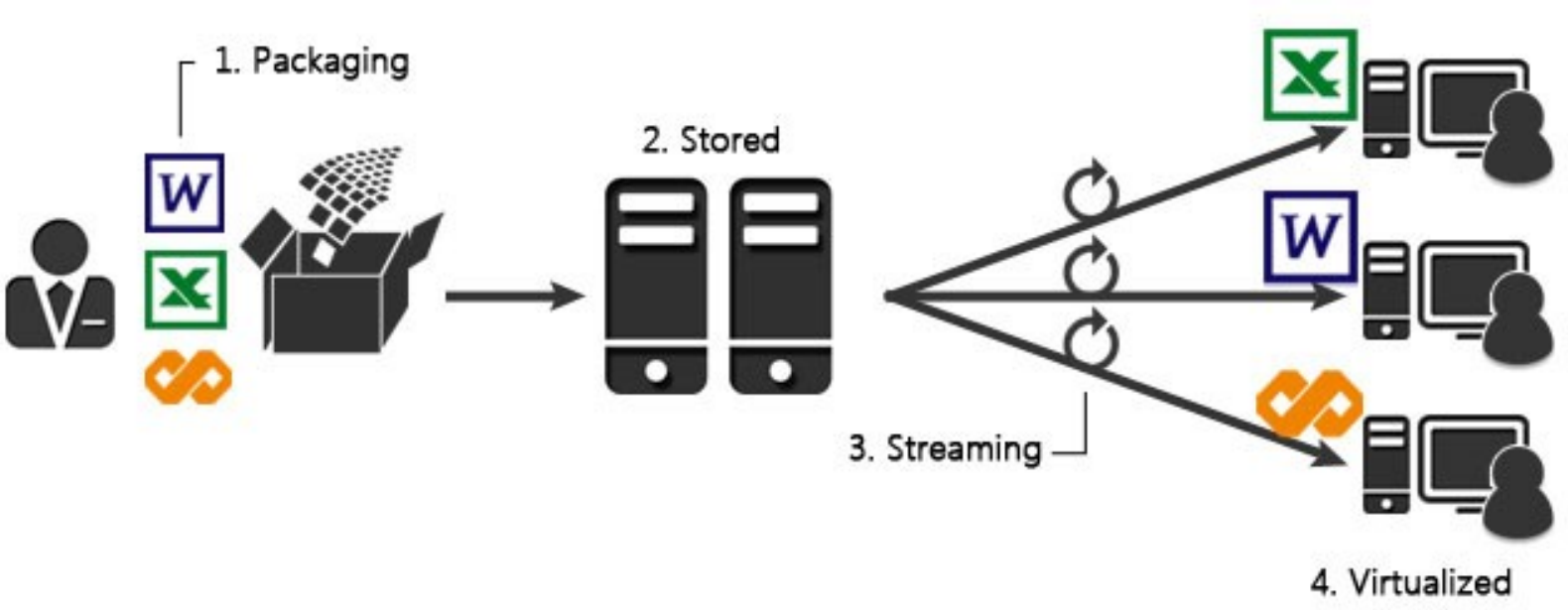
Easy storage management.

Application Virtualization

Encapsulates computer programs from the underlying operating system on which they are executed.

A fully virtualized application is not installed in the traditional sense, although it is still executed as if it were.

Application Virtualization from Servers



Application Virtualization from Servers

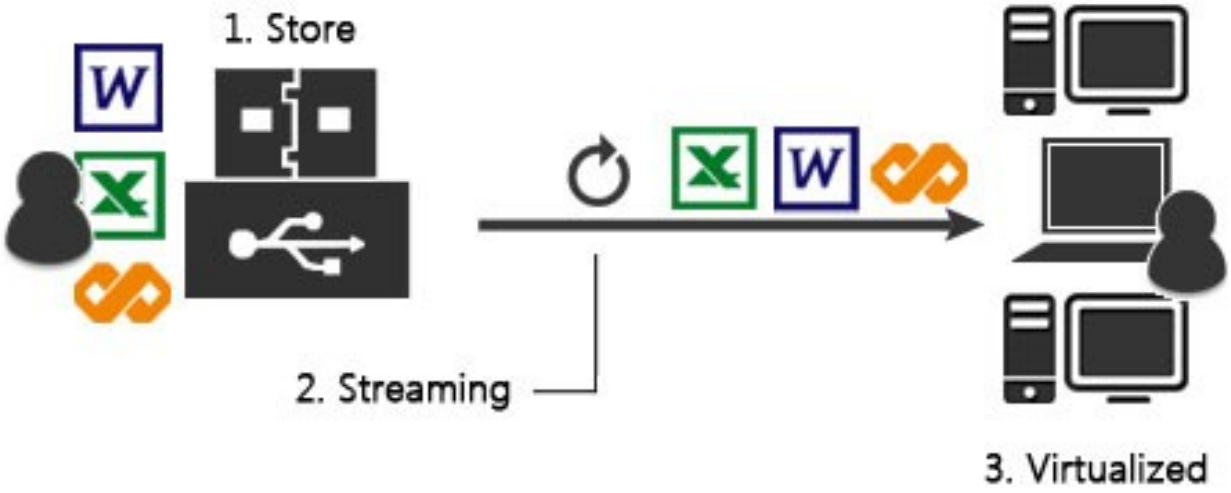
Software pack is made by the pack builder, or it can be provided by us.

The administrator uploads software packs on the server

When the users launches the application, server streams it to the users in realtime.

As the streaming process begins, the application is virtualized as if it is installled in the local machine.

Application Virtualization from a Portable Device



Application Virtualization from a Portable Device

Store the software pack on the device storage.

When the user launches the application, the application gets streamed.

As the streaming process begins, the user can use the software as if it is locally installed.