

Data Center:-

A data center is a facility that centralizes an organization's shared IT operations and equipment for the purposes of storing, processing, and disseminating data and applications.

TYPES:-

1- Enterprise data Centers:-

are typically constructed and used by a single organization for their own internal purposes. These are common among tech giants.

2- Colocation data Centers:-

function as a kind of rental property where the space and resources of a data

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center are made available to the people willing to rent it.

3. Managed Service data Centers :-

offer aspects such as data storage, computing and other services as a third party, serving customers directly.

4. Cloud data Centers :-

are distributed and are sometimes offered to customers with the help of a third-party managed Services provider.

Three categories:

1. Compute

(ii) - ~~Storage~~ Storage

3. Networking

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Compute:-

The memory and processing power to run the applications, generally provided by high-end servers.

Storage:-

Important enterprise data is generally housed in a data center, on media ranging from tape to solid-state drives, with multiple backups.

Networking:-

Interconnections between data center components and to the outside world, including routers, switches, application-delivery controllers, and more.

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① - Star Topologies :-

is a network topologies where each individual piece of a network is attached to a central node.

② - Mesh :-

is a type of Networking where all nodes cooperate to distribute data amongst each other.

③ - Tree :-

is a topology which is having a tree structure in which all the computer are connected with the tree.

④ - Ring :-

is a network topology in which each node,

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no connects to exactly
two other nodes, forming
a single Continuous
pathway for signals
through each node.

(5) Bus:-

is a Specific
kind of network
topology in which
all of the various
devices in the
network are
connected
to a single cable
or line.

(6) Hybird :-

is an integration
of two or more
different topologies to
form a resultant
topology which has
many advantages.

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⑨- Point-to-point :-
is the simplest
topology that connects
two nodes directly
together with a
common link.

Ring :-

is a network
configuration where devices
connection create a
circular ~~path~~ data path.