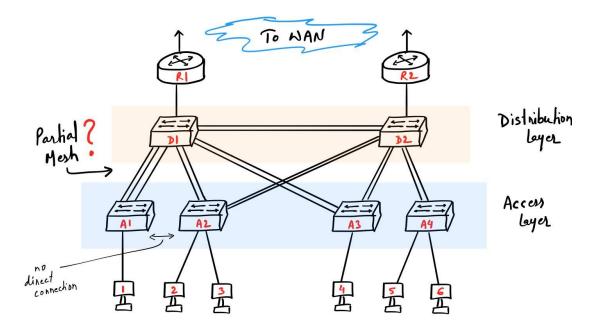
Topology

- Star every device connected to central device
- Full Mesh every device connected to each other
 - o no of links = n(n-1) / 2
- Partial mesh
- Hybrid combination of all designs

Tier

1. 2-Tier (collapsed core)

- Access layer provide user devices access to LAN
- Distribution layer distributes traffic across LAN

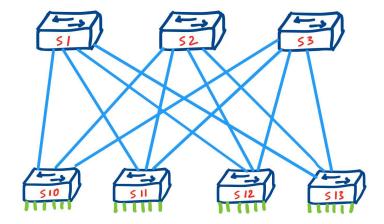


2. 3-Tier

- Access
- Distribution
- Core

Spine-Leaf

- Also called CLOS Architecture
 - Each spine connected to each leaf
 - Not connected → spine-spine / leaf-leaf
 - o End devices connected to leaf switches



WAN

1. E-Line

- Point-to-point
- Connect two CPE (Customer Premise Equipments)
- Creates EVC (Ethernet Virtual Circuit) and decides which CPE connects to which.

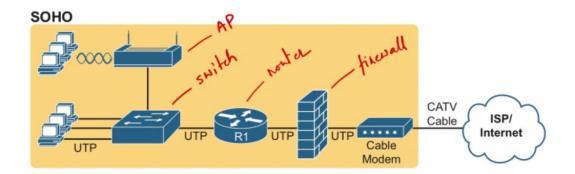
2. E-LAN

- Full Mesh
- No. of links = n (n-1) /2

3. E-Tree

- Point-to-multipoint
- Hub and spoke
- One to many
- Partial Mesh

SOHO



Cloud-computing

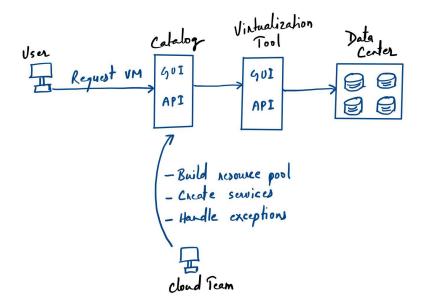
• A way to offer IT services

Criteria

- B Broad n/w
- O On-demand
- M Measured service
- R Resource pooling
- R Rapid elasticity

Types

- Private cloud (On-premise)
 - o Provide service inside the enterprise



- Public cloud (Cloud)
 - Cloud service is remote
 - o Accessed via internet, VPN or private WAN

Cloud-as-a-service Model

IAAS (Infrastructure-as-a-Service)

- AWS, Azure, Google Cloud
- User request h/w (vCPU, RAM, memory, n/w) and OS
- Later install app inside VM

leter User install apps				
	Operating	System (Os))	
метолу	vCPV	RAM	NN	

SAAS (Software-as-a-Service)

- Google Drive, Dropbox, Apple iCloud
- Use app by simply signing in

• Selection of h/w and OS are hidden

PAAS (Platform-as-a-Service)

- Eclipse, Jenkins
- Set of tools for developers to write and test codes