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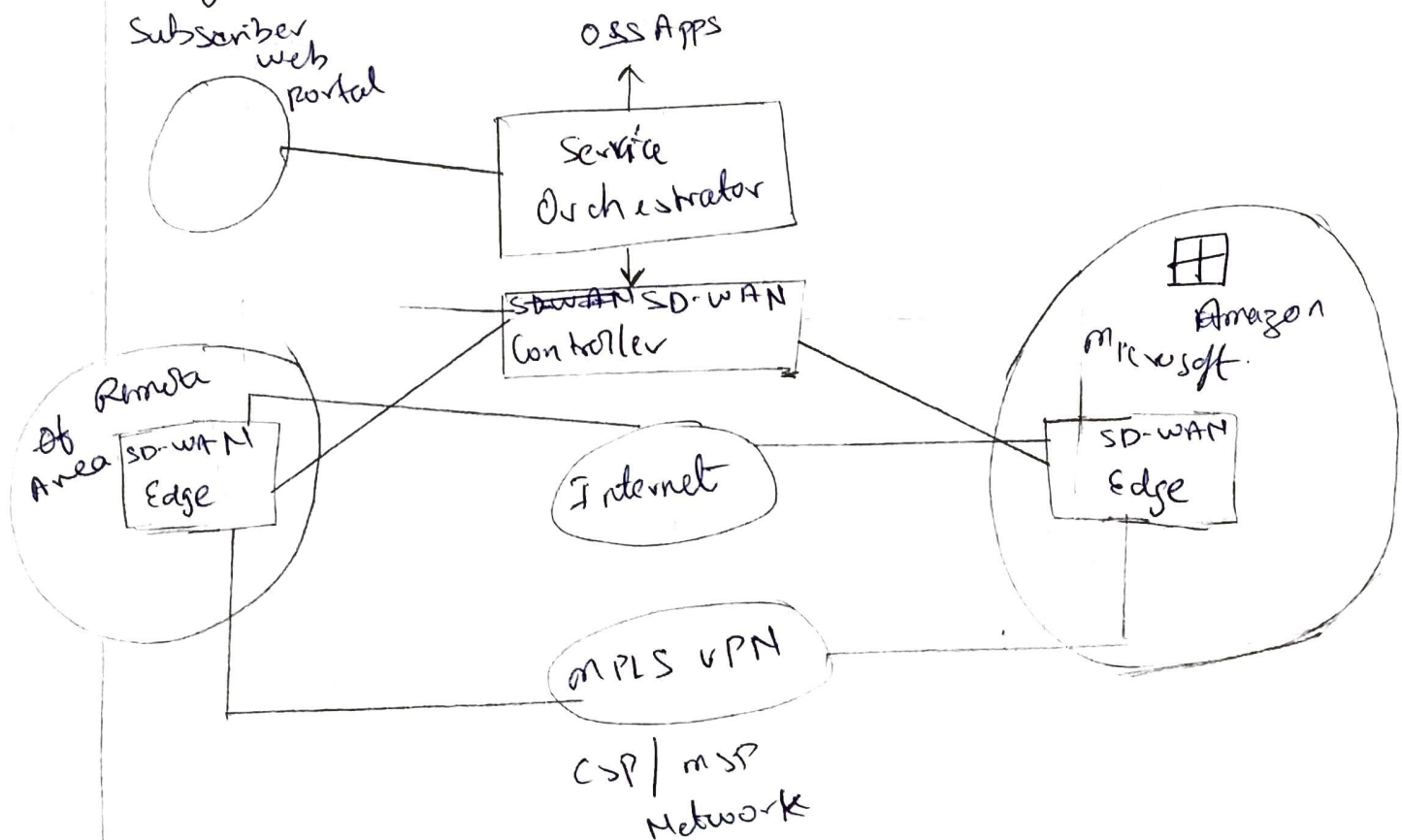BP

⑥ → SD-WAN uses an abstracted architecture for its network.

→ In an abstracted architecture, the network is divided into 2 parts.

   ① Control plane

   ② Forwarding plane

→ It can connect several branch locations to a central hub office / cover multiple locations in a large huge huge Campus.

Subscriber web portal

OSS Apps

Service Orchestrator

SD-WAN SD-WAN Controller

Remote Of Area

SD-WAN Edge

Internet

Microsoft Amazon

SD-WAN Edge

MPLS VPN

CSP / MSP Network

→ There are 3 main components to this virtualized network

① SD-WAM Edge :- It is where the network endpoints reside.

⑪ SD-WAM Orchestrator :- a virtualized manager for network, overseeing traffic.

⑪⑪ SD-WAM Controller
→ Centralizes management and enable of operators to see the network through a single pane of glass

⑫ On-premises SD-WAM
→ Plan when the the H/W resides on-site.

ⓥ Cloud Enabled SD-WANs :-
→ Connects to a virtual cloud gateway over the internet

ⓥ⑪ Cloud Enabled with backbone SD-WANS :-
→ Gives organizations/campus an extra backup by connecting the network.

Benefits.

① Increased bandwidth at low cost

② Centralized management across all branch networks

③ Full vass visibility into the network

⑧
→ In today's world we might have have heard of about "cloud" / "cloud storage". As they are now fast growing data storage storage.

→ A Nearly 90% of all & broadband users users acknowledge that this tech. exists.

→ But with emergence secu security becomes vital to st secu it secure the store storage from outer threats.

→ Though Though the prevalence of the cloud has added ease, accessibility it's brough brought with a it a slew of new thr threats & risks.

→ Like I said, statu security becomes vital.

→ the Sq keep in mind Now there 2 application of the Security threats and it's solution.

① Absence of Adequate Encryption :-

The risk :

→ Cloud Computing is often subjected to monitoring and eavesdropping by external sources like common man-in-the-Middle (MitM) attacks.

The solution :-

→ we can prevent this risk by encrypting communi communications.

⑪ Feeble Security Management :-

⇒ The risk

→ with Security management it will be more complicated subjected to external threats and risks.

→ It includes failure to engage strong authentication measures

The Solution :-

→ You have to synchronize data and use proper identity many management service

PART-A

① NFV It refers to abstracting network resources that were tradionally delivered in H/w con S/w

② It is a data forwarding technology that increases the speed and controls the flow of, of network traffic.

③ ~~Contract~~
~~Control Plane~~

Control Plane	Forwarding Plane (Data)
① Responsible for building and maintaining the IP Routing table	Responsible for actual forwarding of IP Packet
② Makes decision about where traffic will be sent	Forwards traffic to the next hop along the path
③ It's packets are distined/ locally originated by router itself	These packets go through the router.

④ It refers to the technologies and strategies that that allow for more efficient IT~~a~~ architectures. This means that physically consolidating multiple data centers.

⑤ Following are the advantages:-

① Enables users to easily gather acess, process.

② Can ~~search~~ search for a large ~~no~~ numbers of sensor data from ~~several~~ several types of applications by using the computational ~~II~~ IT storage resources of the cloud.