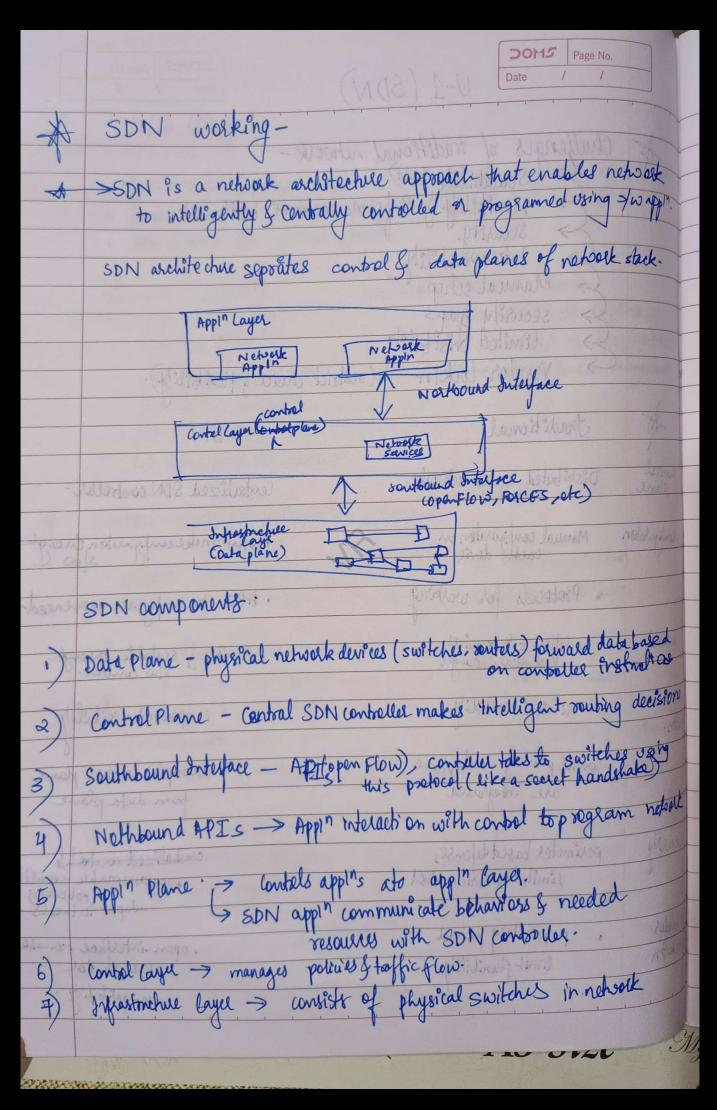
U-1 (SDN) Challenges of traditional network-Scalability (not) > Floribility Performance (not) bottleneck > Interoperability > Manual setup security gaps United visibility Vendor Lockin (restrict choice & flexibility). SDN. Traditional Centralized SDN controller-Distributed across network control Programmable configuration through Manual configuration on cach device Configuration · APIs to configure aspelneed · Protocels for working difficult & requires befrevible & scalable through, sclability improved visibility Cineted Helbility Lang Molastras 1102 loding decouples control plane dationcontrol plane of dataplane are integrated from data plane programmable security policiess adapts to theses perimeter based defense, Limited dynamic combol Median seasily open interface conable propriertary protocol Alin annual mutiple Vendot Cimit Cenibility) soft of Carriage of Assume compatibility. Vender Lock In

13 SIZE

My Drawing Clip Board





Traditional switch architecture with diagram core of switch based on -> ouslown silicon, either on ASIC, FPGA, NPU. these hardware devices can paraward packets based on layer 2. & layer 3. input at requisive "wide speed". The control plane handles routing funct of handles chelculates packed forwarding rules. Here, control plane & data plane are integrated.

Curknown proceeds control posteds Control Management Data In Contal growing protocols Configur Data Out Policy : SON data plane > forwards data packets > comprises switches of soutels > occives instructions from control plane > Implements packet forwarding SDN control plane > controlly marges network of decompled from detaplace > usessalpare controller > Defermines nehvork policies. Handles network management tasks SDN management plane supports configuration & monitoring Interfaces with SDN contrabe enabled certalized management.

Date / / * Arthrecre of modern tata certes. Physical Artistecture > Modular design for faster Deployment break of space optimis zation > efficient dooling system for heat management. > Redundant power & nework for continous open Network -> Multitier design for performance & security

Leaf spine fabric for efficient data flow > SDN for centralized controls automation. compute > Virtualization for resource utilization & cost reduction

agility & scalability THE MENT HCI for simplified management Storage > SAN > high performance & Hoch livel storage > NAS -> file livel network storage > 3DS > disaggregated/vithalized storage. Security > Defense in depth approach with layded control > Microsegmentation for workload isolation. > Zero trust security for continous verification. Management > Infrastmer as code for automotion

> Monitoring & analyticas tool for real time analysis.

> cloud integration for hybrid & multi doud deplayments. supports configurations monthships may res will son conface maked contains to management.

