U-4 (SDN).

Date / /

	- 21306 / Junpanes Talkall 1
*	Northbound Application Interface -
	- Jhs/MAP (1)
7	Interface / set of protocols that allows apply or s/w sys to interact with
Malle	a higher - devel component in h/w architecture.
>	Interface through which apply communicate with SDN controller.
->	SDN controller -> central brain of h/w -> controls have h/w traffic flows
754	mares decisions on how packets are folloarded-
	Northbound API -> defines methods, data structures & protocols use to exchange
	info with SDN controller
	> allows appeal to programming retrieve h/winfo, set policies, configure h/w
\rightarrow	> allows appeal to programming retreive h/winfo, sels policies, configure h/w. Northbound API > provides standarized way for appeal to send command.
->	By using Northbound API > apply can leverage capabilities & flexibility of SDN. To implement him services.
	to implement how services
	> aptimises traffic flows.
	> monitor h/w performance
Jana	> performs other his related tasks.
->	NOT abstracts -> unduluing complexities of SDN controller.
+4	API abstracts > underlying complexities of SDN controller. > provides a simplified of standarized interface for appli)
	A DIVINITY OF THE PROPERTY OF
->	specific design & features of NAPI can vary depending on SDN controller emplementation.
	controller emplementation.
->	common examples of Northbound ATTS used in SDN include.
1	DOOME LOW, NETCONT, RESTAUL AT 13
	. Has not form of descending of cooperate should and sets.
- 10 May	

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Current Language & Fools -

Frenctic -

· domain specific language for programming Open Flow networks-

· allows new operators to program n/w as a whole than manually configuring configuring each connected n/w device.

· introduces set of purely functional abstractions enable module program

· defines high level, programming centric, packet processing operators of eliminates many of difficulties of 2 ties programming model.

· embedded in python -> 2 level abstraction

(1) High level abstraction.

2) Modular constricts.

3) portability

4) Rigorous semantic foundation-

(a)

Procera-

· high level h/w control language that allows new operators to exposest reactive n/w control policies, without having to resort.

nuturonks. devices how intelligence solves based on deep packet suspection technology.

(3)

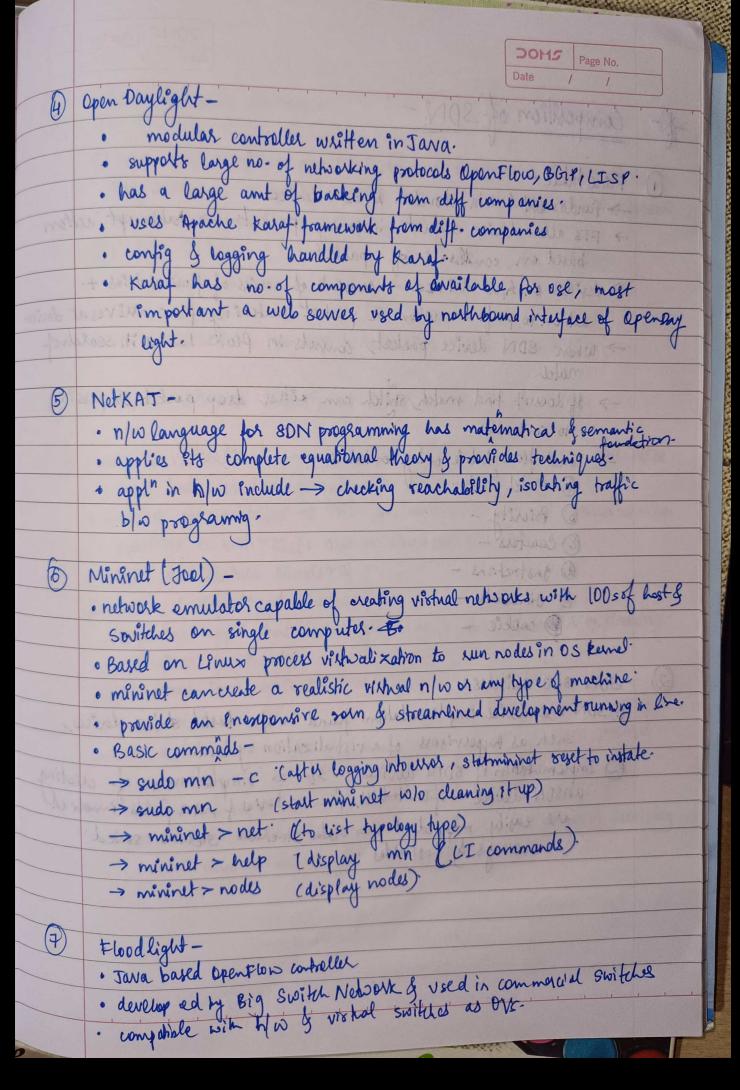
Ryu -

· highly modular, small SDN controller -> Python.

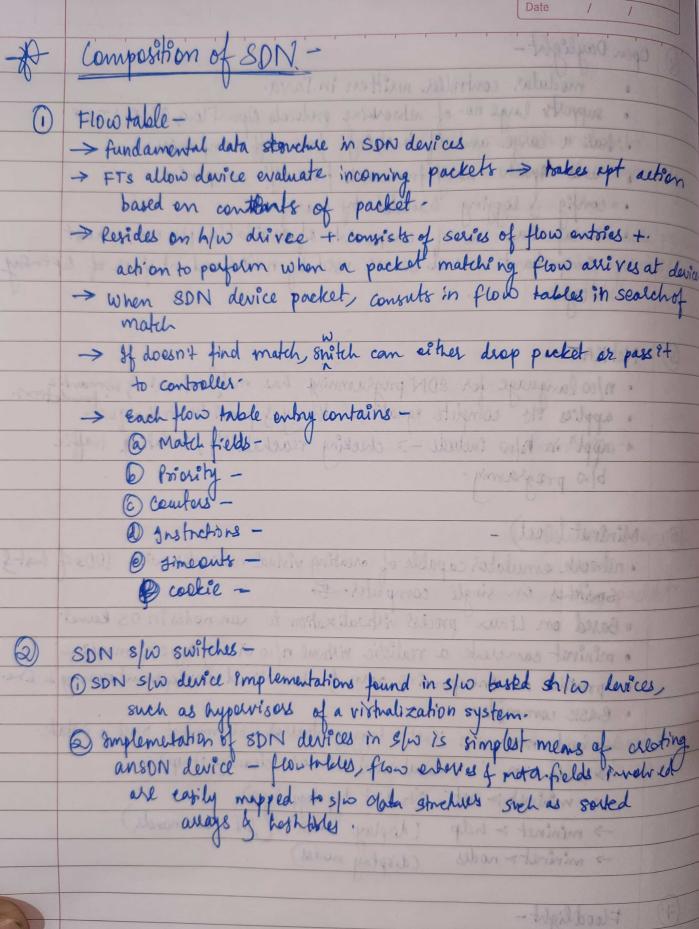
· dere of kyn is snaller than controllers, every feature is implement.

· supports multiple exention versions, along with related protocols-

· Has no form of governance or cosporate sponsors.



· July based topost loss confeller



Hardware SDN devices - . - North 19 200 and Institute (1) W/W devices utilise special hardware designed to facticiate the Enspection of incoming packets & subsequent decisions that fellow. based on placket matching epelation D Www includes layer 2 & layer 3 forwarding tablet usually implement using TCAMS - content addressable memories. NFV (Network Functions Vistnalization) -·way to vistualization how services, such as newers, frewalls load balancers (traditionally h/w or prophietly h/w). . services are packaged as VMs on commodity No it allows service providers to run their n/w on standard servers. · NEV architecture consist of QVNF - (Vistualized hlw fune). · software apply that derives how time such as file sharing, directory. services & Ilconfig. (b) Network Pure Vistualization inflastructure (NFVI) · consists of infra components, compute, storage, networking on a platform to suppose s/w such as supplified some kumal. a contraver ingut platform neded to run new apps (c) Management & Automation of N/w Birchestration (MANO) -· provides framework for managing NFV intrastricture of provishing new VNFs. washindred topical fire (& Bandwilder rough

