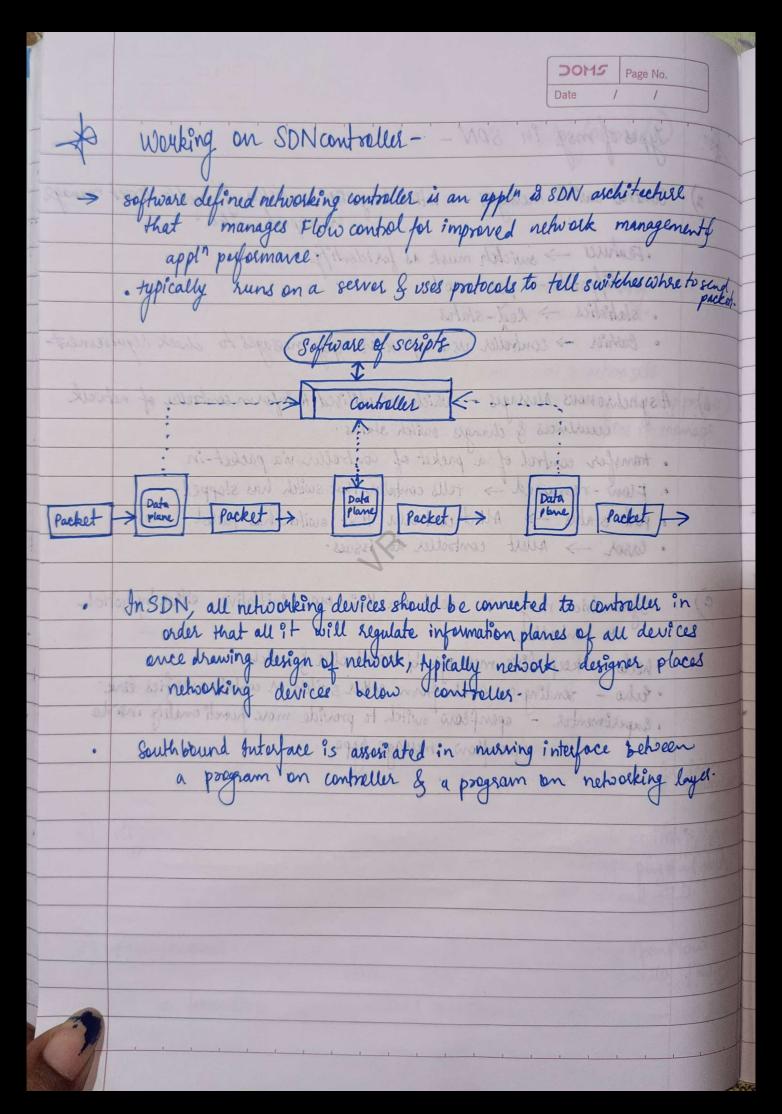
U-2 (SDN), Date / Date / Matching process in SDN (Flow table format) Packet arrival Header Passing Flow take lookup. Match Found (Success) -> Action set defined in that entry-No Match (Failure) -> default behaviour programmed. · flow tables -> multiple entries with diff Match fields & Action sets: · order of enteries -> switch prioritizes earlier enteries during lockup process) · controller dynamically adds, modifies or deletes flowtables entires to manage network traffic based on requirements. * Ports in Physical ports > Real hardware ports on network device.

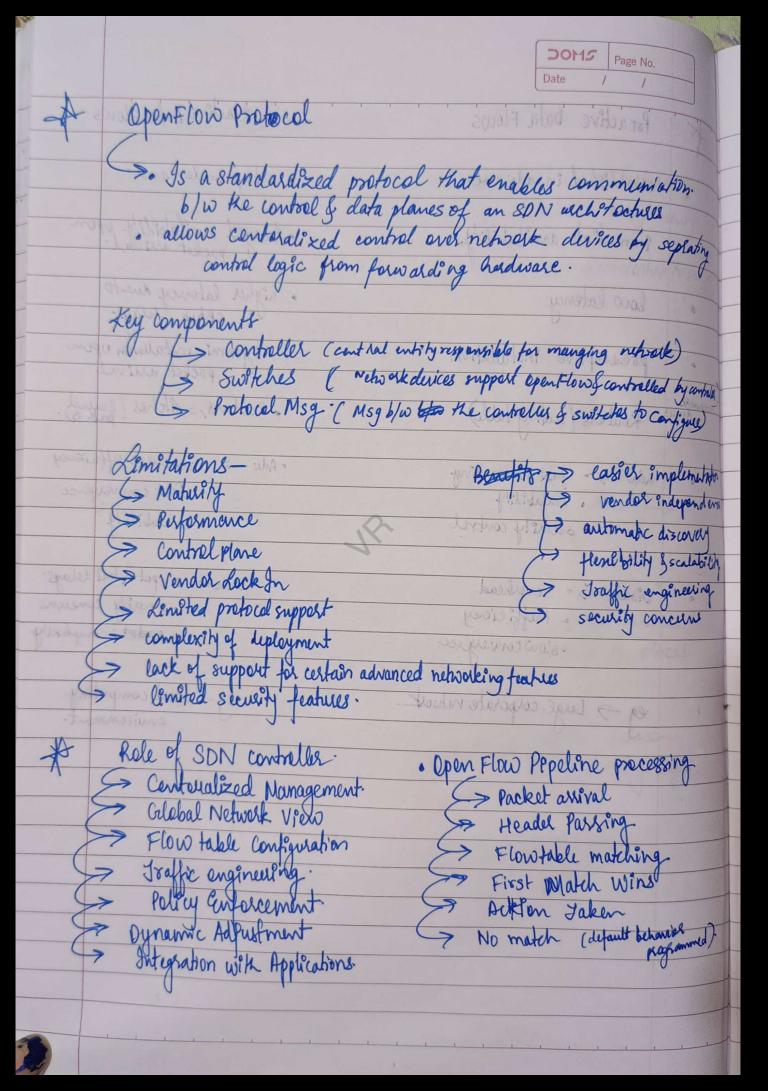
Includes Ethernet ports of tunnel ports.

handles forwarding of data packets.

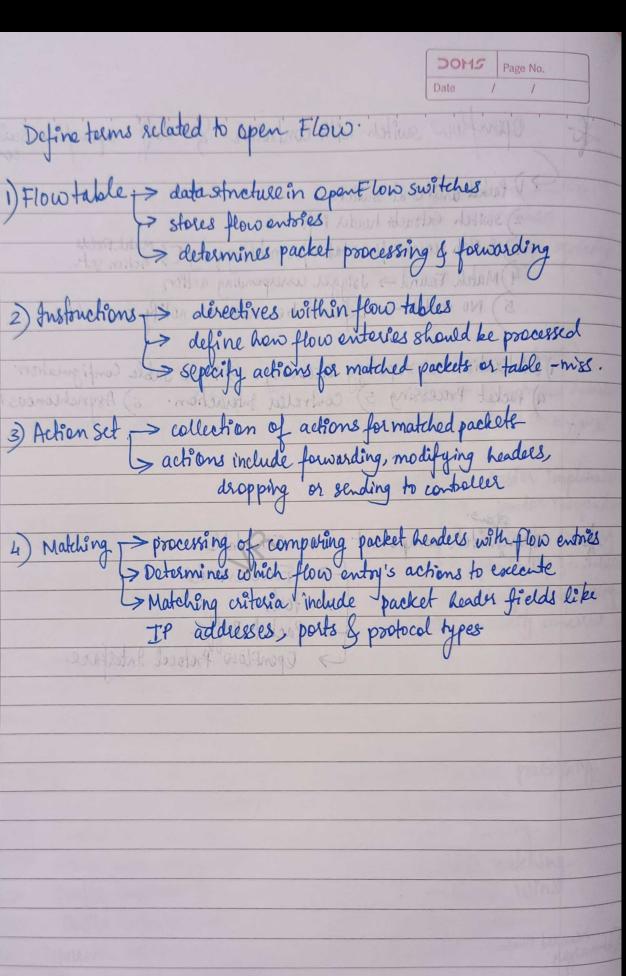
connect to end device on other network switches for data fransmise. 2) Logical ports -> swigth defined ports don't match up with switch's the slow concept within controller to manage physical ports outled turned -ID-3) Reserved posts -> generic forwarding behaviours specified by OpenPlow reserved posts including harning conteller, floating or forwarding improperly utilising non epention methods.

Types of mag in SDN - - who would no propagate a) Control switch messages - intrated by stort controller of used to direct manage or in spect switch. · Features -> switch musk as for identify · modify state -> flow mod: . statistics -> Red-states · Barrier -> controller uses request or reply messages to cheek requirement-A synchronous Messages - which are whilesed to inform controller of network occurlences & changes switch status. · transfer control of a packet of controller via packet-in · Flow-removed > tells controller that switch has stopped. · port status -> Allest controller that switch has failed · earl -> Allest controller to issues. Symmetric may -> sent on their own initiative, either by switch or controller administration of the tent with · hello - keep alive mess age blu controller & switch · Echo - sending an eacho from either switch or contaler verifies link. · Experimentar - epenflow's witch to provide more functionally inside somethin openflow message type; somethis havid along





	Date / /				
10	Date 1				
to	Openflow switch with controller. & diff openflow switch to				
0					
) Packet arrives at switch				
	a) switch extracts heades into				
	3) Switch searches flow table for matching query 5 Action set				
	4) Match Found -> Irigget corresponding action				
	5) No match -> Default behavior or non by contribution				
16.	Track of black to the track of				
. Wen	1) Invalization 2) Lapology Discovery 3) Flow Table Configuration. 6) Asynchronous Message.				
	1 and 1 borresons 5) (matrolled manus				
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Define terms schated to open Flow.

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		Date /	Page No.			
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A				a il la		
119	1) Controller -> manages & controls network: . co	mm plu	using ex	ponfla		
1.10	i) Contreller -> manages & controls network: . Ca		vsilg eq	doont,		
- 17.44	execute various and set appro-					
na walls	Implement new ork policies					
3511	execute network control apply. previous a certeralized point, Implement network policies for network margar. 2) apenflow Switches > divided intodata plane & control place is execute actions specified by controller Forwards packets based on instructions in with charter last to exchange info.					
G JAMAN	> forwards packets based on instrictions					
10.00	from controller					
whose of 3	Scommunicate with controller to exchange infor					
extra	A CALALANI MAN MAN AND SANCE					
1-10	3) Comminication Protectly > commute on blu controlly & switches.					
	3) Communication Protected (and communication by the such as proceed in , flow-mody port mod. I defines may types such as proceed in , flow-mody port mod. I amables controller to said instructions to switches & proceedings into					
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diff times used in SDN

-) Idle timeout Removes flow onto es after a period of inactivity
- 2) Hard timeout -> sets max lifetime of flow enteries regardless of activity.

 3) packet in timeout -> limits time for buffering packet in may before deopping

 4) Controller Response Firmeout -> defines max time for controller response to packet in messages.
- 5) Echo Request Firment > sets duration for waiting for a controller response to seeks
 6) connection Firment > specifies max idle time for maintaining connections Lbs
 switch & controller.
- 7) Miss send length timeant -> controls duration for suffering packets before Gending them controller for processing

· Vendor Dependence

dividors.

- Levilled worked Plans

· Complexity



Drawbacks of OpenSDN

- > Vender Dependency
- > Scalability concerns
- > complexity.
- > single peint of failure
- > Security Risks.
- > Performance Overhead
- > limited Pootrcel Support
- > Young Technology (evolving standards).