

**Bachelor of Information Technology**

**School of Information Technology**

***IT6x87 – Network Technologies***

**SDN REPORT**

**Semester One, 2018**

**How do you verify the username and computer you are logged in to?**

**21600681@Mininet-21600681:~$**

**How do you work out the number of hosts and switches created by Mininet, from from command line above?**

**mn --topo=tree,1,3 --mac --controller=remote --switch ovsk,protocols=OpenFlow13**

**3 mac (address?)**

**Switch (there is no number before it so one?)**

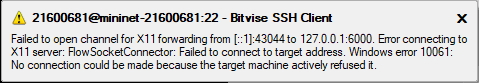
**What has generated these flows?**

A flow is the finest work unit of a switch. In Mininet, dpctl is a command that allows visibility and control over a single switch's flow table. It is especially useful for debugging, by viewing flow state and flow counters. Controller.

**Why does Floodlight not show IP addresses on the hosts at this stage?**

We haven’t assigned ip address yet? Host aren’t active?

**How do the messages listed in the tutorial compare with the packets captured by Wireshark?** Your answer should include at least three types of message, with a reference to corresponding entries seen in Wireshark.



**Describe how the topology is reflected in the messages from Mininet as it opens.**

In CLI Poorly? In floodlight more understandable.

**Note how long the first few pings take. Was one longer? Why?:**

Switch and or Controller’s first time adding it to the router table? Can’t find a route?

**Which switches carry traffic between hosts 3 and 6?**

4 and/or 5?

**Describe the port numbers going to each adjoining switch or host.**

**What has changed in the 'Topology' view on the Floodlight GUI?**

**Go back to the "Switch Detail" views for each switch in Floodlight. What has changed in the 'Flow Summary' from when you looked at the statistics earlier?**

