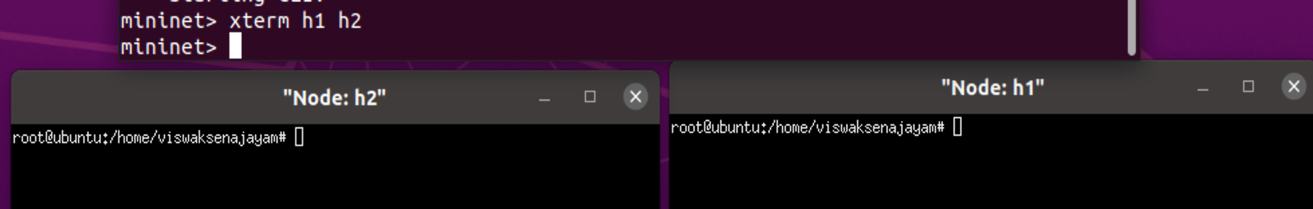
**Name:** J Viswaksena **Roll.No:** AM.EN.U4AIE21035 **Batch:** AIE-A

Assignment 2 – **Mininet Installation and Basic Commands**

1. **How do I open a Xterm on a host?**

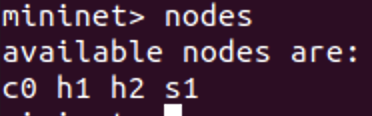
mininet> xterm h1 h2



1. How do I get to know all the nodes in the topology?

mininet> nodes

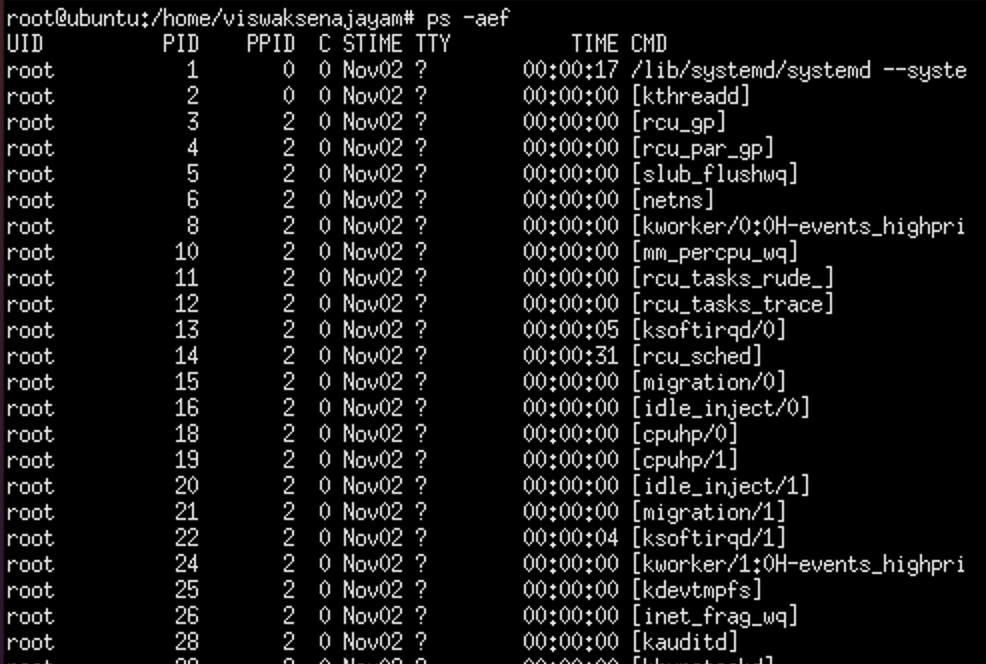
it shows the available nodes(one controller, two hosts, one switch



1. How do I run a command ‘ps -aef’ on specific host h2?

mininet> ps -aef #in terminal h2

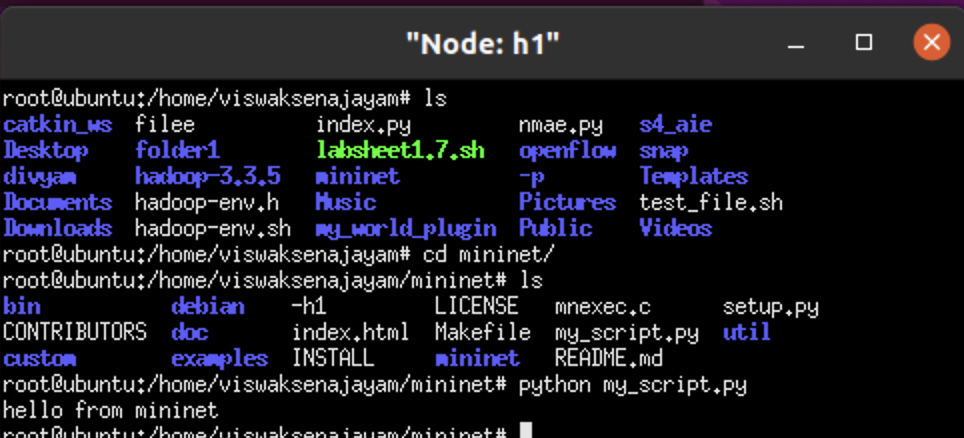
It will print all the processes running on host h2



1. How to run an example Python program on a specific host h1?

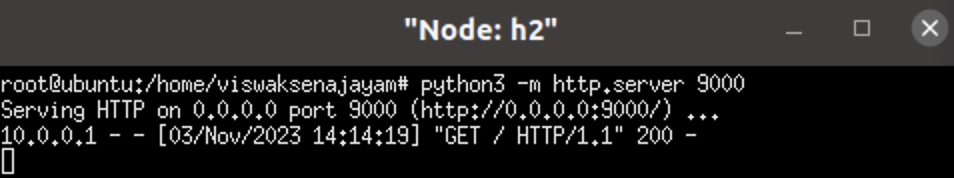
Create from inside mininet

Run it from h1 using python my\_script.py

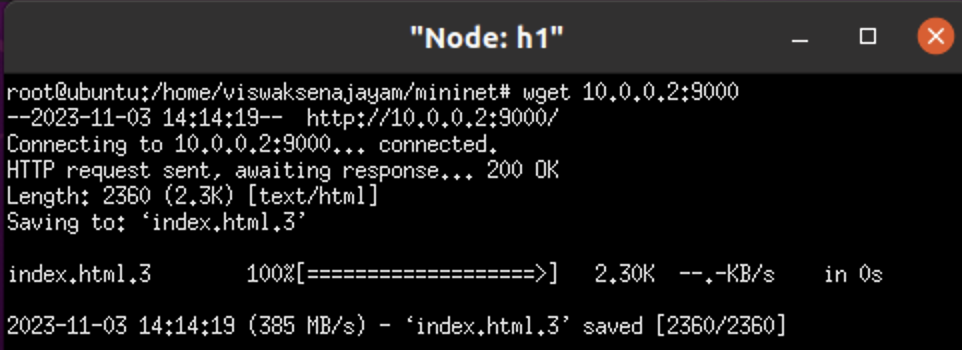


1. How do I start a web server on a host and access the index page from another host?

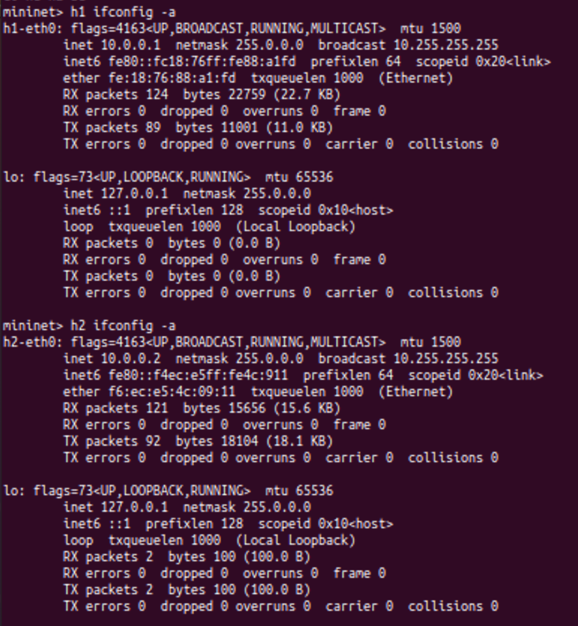
🡪 start the server

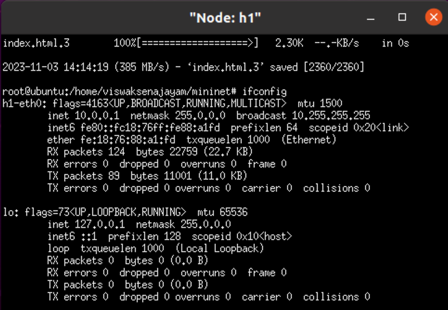
Python3 -m http.server 8080

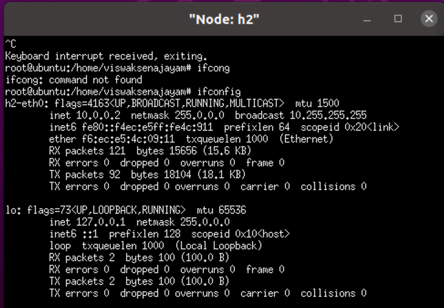
Get file

Wget https://10.0.0.1x

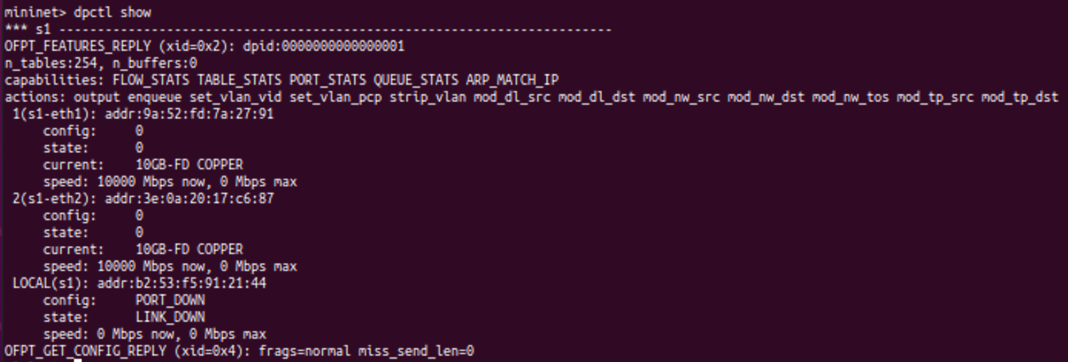
1. How do I get the IP address corresponding to a host?







1. How do I find out all the interface for a switch?



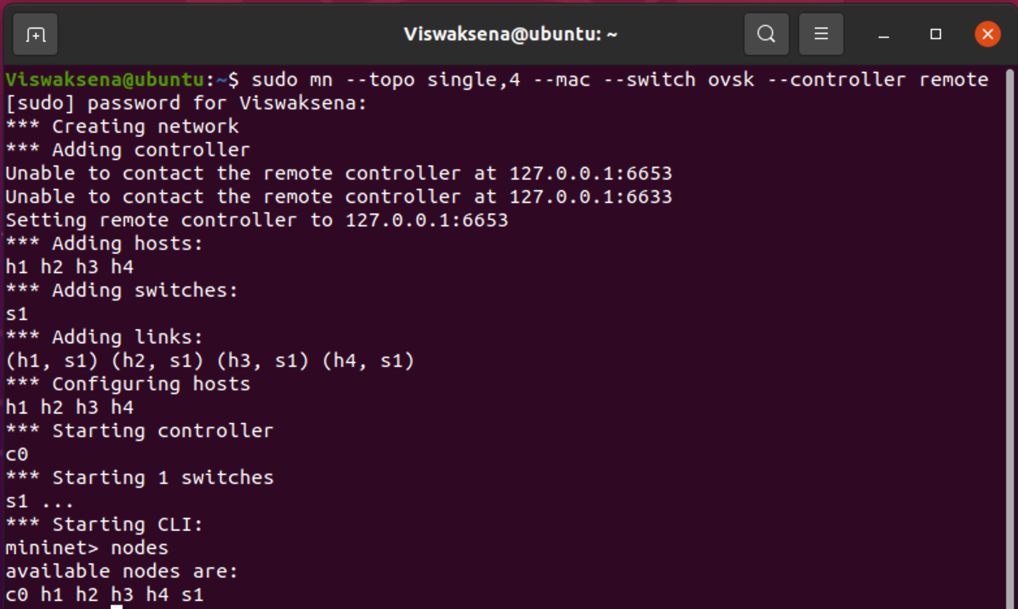
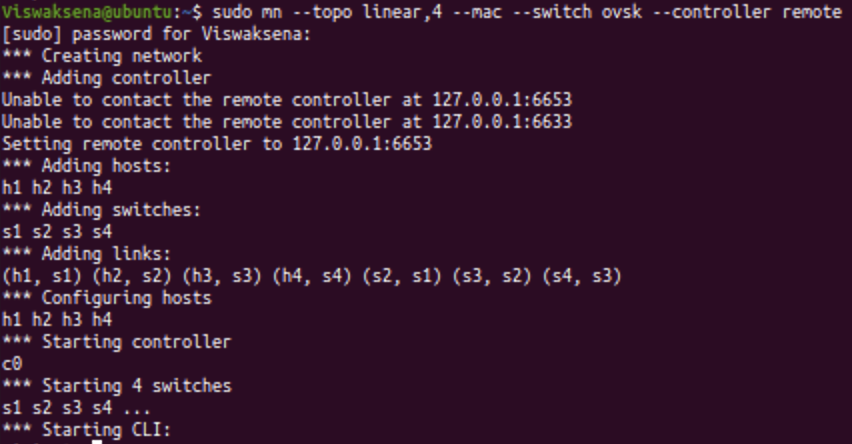
1. What does the command iperf do?

A tool for ensuring that a network can meet its performance requirements and for troubleshooting network problems.

1. Try out linear, Single topology with different number of nodes and switches

sudo mn --topo linear,**4** --mac --switch ovsk --controller remote

Based on the value input before –mac –switch ovsk it gives the specified number of nodes and switches in a linear configuration.



1. Create a topology with 4 hosts and 2 switches as follows and ping all the nodes. (Code should be submitted) You may use the following url for Python based mininet APIs <http://mininet.org/api/classmininet_1_1net_1_1Mininet.html>



Code:-



