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Course Overview



Env setup (Labs/Assignment)



Lab 1 - 101



Useful links: slides/recording/codes..



Course Overview

PLEASE ADD YOUR TITLE HERE

Ref: Course outline: https://webcms3.cse.unsw.edu.au/COMP3331/22T3/outline

Score distribution



Lab



Programming Assignment



Mid-term Test



Final Exam (double pass)

Contents

Week 1 Fundamentals

Week 2~3 Application Layer

Week 4~5 Transport Layer

Week 7 Midterm exam

Week 8~9 Network Layer

Week 9 Link Layer

Week 10 Security



Env Setup

Lab1 – VLab - python

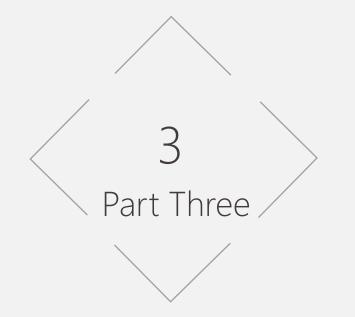
Env setup

VLab - important for your labs and assignment

- Web access: http://vlabgateway.cse.unsw.edu.au
- PC access(better): TigerVNC

Python & Java - for your assignment:

- basic syntax
- socket programming
- exception



Lab 1

Linux basics

Lab1

- make sure you are working on the Vlab.
- You will learn:
 - Nslookup
 - Ping
 - Traceroute
 - Shell script

Lab1 – Exercise 1

Use "nslookup" command

Lab1 – Exercise 2

Use Ping command and Browser to check

Hosts	Pingable	Browser access	Comment
www.unsw.edu.au	Yes	Yes	
8.8.8.8	Yes	No	Google DNS server

Lab1 – Exercise 3

Q1: Use "traceroute" command

Q2:

Draw the map to find the diverge IP -> geolocation:

http://www.yougetsignal.com/tools/network-location/ https://tools.keycdn.com/geo

Q3: Traceroute from internet to your machine

Lab1 – Exercise 4

Q1~2: Do the calculation

T = physical_distance / speed_of_light

Draw the table:

Host	Distance	RTT	Т	Ratio
www.uq.edu.au	750km	40ms	13ms	3.07

Q3: Check the lecture slides

