



University of Dayton

Department of Computer Science

CPS 475/575

Secure Application Development

Lecture 9 – Channel in GoLang & Asynchronous programming with Node.js

Phu Phung

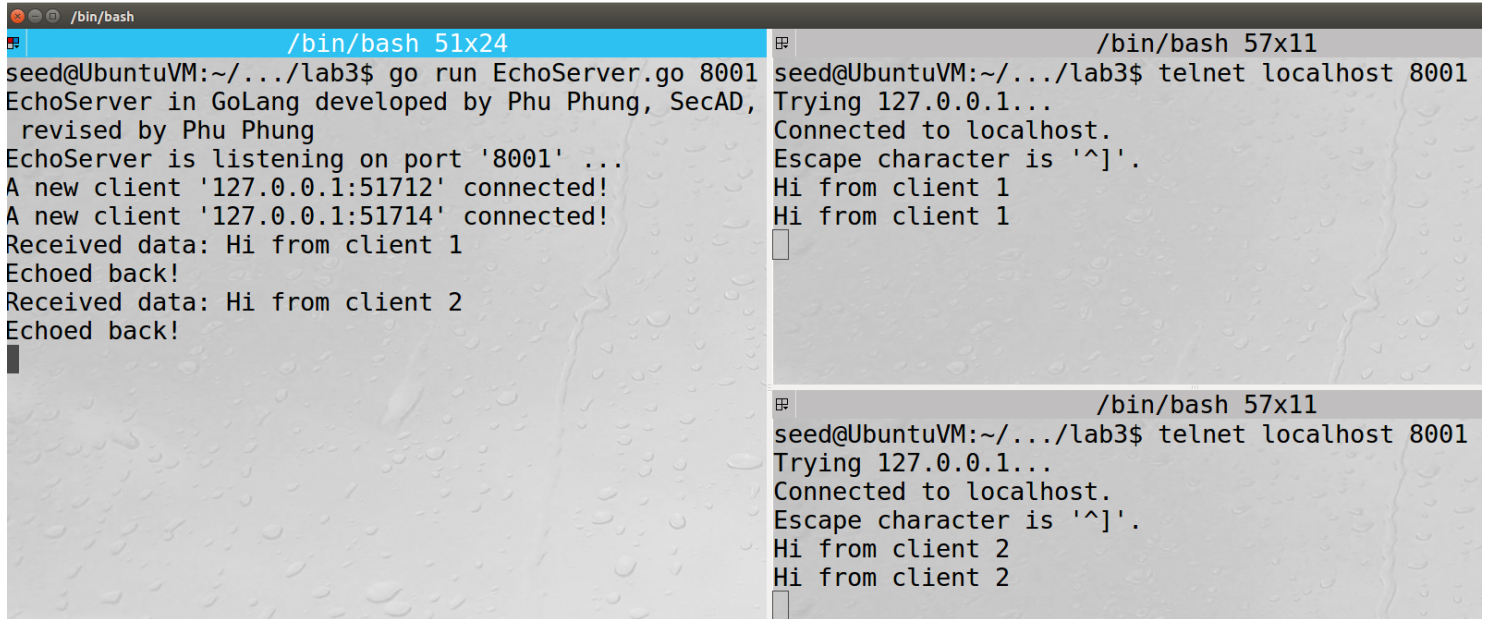
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Agenda

- Concurrent Programming in Go
 - Hands-on (Lab 3- Task 2):
 - Concurrent EchoServer.go with channel
 - Concurrent BroadcastEchoServer.go
- Asynchronous programming
- Introduction to Node.js
 - Hands-on: Hello World in Node.js

Review: Concurrent **EchoServer.go**

- It should accept multiple clients at the same time



```
/bin/bash 51x24
seed@UbuntuVM:~/.../lab3$ go run EchoServer.go 8001
EchoServer in GoLang developed by Phu Phung, SecAD,
revised by Phu Phung
EchoServer is listening on port '8001' ...
A new client '127.0.0.1:51712' connected!
A new client '127.0.0.1:51714' connected!
Received data: Hi from client 1
Echoed back!
Received data: Hi from client 2
Echoed back!

/bin/bash 57x11
seed@UbuntuVM:~/.../lab3$ telnet localhost 8001
Trying 127.0.0.1...
Connected to localhost.
Escape character is '^]'.
Hi from client 1
Hi from client 1

/bin/bash 57x11
seed@UbuntuVM:~/.../lab3$ telnet localhost 8001
Trying 127.0.0.1...
Connected to localhost.
Escape character is '^]'.
Hi from client 2
Hi from client 2
```