FINAL EXAM TOPICS

Chapters and Slides

- All the slides from the course
- Chapter 1-10 except chapter 2 from the online course textbook of NetAcad.com
- Chapter 23 & 28 from book "Java How to Program"
- Review questions from in-class quizzes, midterm exams and post-lab quizzes

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Exam Topics

- Protocol Data Unit (Header, Data, Trailer)

- ARP

- Subnetting from Midterm 2

- OSI and TCP/IP Model and protocol layers

- TCP connection setup and take down

- Broadcast domains and collision domains

- Which devices break broadcast and collision domains

- Troubleshooting commands such ping (ICMP), tracert, ipconfig

- Routing, routing tables, static routes, default routes

- Layer 7 Applications such as DHCP, DNS, HTTP, HTTPS

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Exam Topics

- TCP and UDP services

- Which applications use TCP and UDP

- Read Wireshark captures

- IP addresses and MAC addresses

- IP services such TTL and routing

- Private Addresses

- IPv6 per Midterm2, Valid IPv6 address types (ie no Broadcast)

- Transport Layer Port Numbers

- Duplex

- UTP Ethernet Cable

- Ethernet Switches: Learning, Forwarding

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Exam Topics

- Default gateway
- NAT
- Netstat
- Socket programming
- Multi-threading in socket programming

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