What’s left This quarter:

1. Week-9 = Windows firewall
2. Wee-10 = Project work {I’m available, let me know if you want to meet as a class, team, or individually}
3. Week-11{project presentation} Wed June 14 @ 1:00 pm:
   1. Presentation = 20% & demo = 80%
   2. Live presentation & demo {can videotape the demo}

Before we start {mostly a review}:

1. Firewalls are a super important security tool
2. Firewalls run on clients, servers, routers, switches, and of course, security appliances
3. If I was to go to google.com, it’s very likely I’ll go through 6-7-8 firewalls, any one of which can block my traffic
4. Firewalls filter {permit or deny} incoming and outgoing traffic using rules
5. Firewall use predetermined filtering rules:
   1. Source and destinations IP(s):
      1. Single IP, range of IPs, or all IPs
   2. Source and destination port numbers:
      1. Most protocols use ephemeral source port number {can’t filter on}
   3. Protocols {IP, TCP, UDP, ICMP, OSPF, etc.}
   4. Date/time
   5. User name and even password {use password hash}
   6. QoS
   7. Network profile {private, domain, public, Internet, etc.}
   8. NOTE: In theory, any piece of data the firewall has access to.
6. There are different type of firewalls:
   1. Stateless/packet firewall
   2. Stateful firewall
   3. Circuit firewall
   4. Application/proxy firewall:
      1. Privacy
      2. Cashed data
      3. Filtering – URL filtering
      4. Monitoring
   5. NOTE: Or a combo of the above.

Week-9 Agenda:

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1. Week-9 Slides

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1. Q&A

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1. Week-9 Slides

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1. Lab time:
   1. MS Windows Firewall

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1. No classes next week {week-10}:
   1. I’m available if you would like to meet with me {send email first}