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:

-

1. Week-9 Slides

-

1. Q&A

-

1. Week-9 Slides

-

1. Lab time:
	1. MS Windows Firewall

-

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