Lecture #12

Agenda

* Review Assignment #09
* Key Management Service
* Securing Cloud Infrastructure
  + Operating System
  + Network
  + AWS Account
  + Virtual Private Cloud
* Securing Your Application
  + SQL Injection
  + Cross-Site Scripting (XSS)
  + Cross-Site Request Forgery (CSRF)
* Privacy
* Discuss Assignment #10

Reading

AWS

* Key Management Service

Google Cloud Platform

* [Cloud Key Management](https://cloud.google.com/security-key-management)

SSL

* [Let’s Encrypt](https://letsencrypt.org/)
* [An Introduction to Let’s Encrypt](https://www.digitalocean.com/community/tutorials/an-introduction-to-let-s-encrypt)
* [Why HTTPS for Everything?](https://https.cio.gov/everything/)
* [The HTTPS-Only Standard](https://https.cio.gov/)
* [Server Name Indication](https://en.wikipedia.org/wiki/Server_Name_Indication)

Security

* [Netflix Security Monkey](https://github.com/Netflix/security_monkey)
* [97 Things Every Programmer Should Know: Collective Wisdom from the Experts](http://programmer.97things.oreilly.com/wiki/index.php/Contributions_Appearing_in_the_Book)
* [Open Web Application Security Project (OWASP)](https://www.owasp.org/index.php/Main_Page)
* [Common Vulnerabilities and Exposures](https://cve.mitre.org/)
* [The Ten Commandments of Ethical Hacking](http://www.dummies.com/programming/networking/obeying-the-ten-commandments-of-ethical-hacking/)
* <https://github.com/cloud-custodian/cloud-custodian>

Penetration Testing Tools

* [Kali Linux](https://www.kali.org/)
* [Kali Linux Penetration Testing Tools](http://tools.kali.org/)
* [Automatic SQL injection and database takeover tool](https://github.com/sqlmapproject/sqlmap)
* [XSSer](http://tools.kali.org/web-applications/xsser)
* [Grabber](http://rgaucher.info/beta/grabber/)
* [Wapiti](http://wapiti.sourceforge.net/)
* [W3af](http://w3af.org/)
* [Wireshark](https://www.wireshark.org/)