Lecture #04

Campus	Lecture Date	Lecture Recording Availability Date
Boston	06/01/2019	N/A
Online	N/A	06/01/2019

Agenda

- Networking Fundamentals
- Fundamentals of Cloud Computing
- Cloud Native Web Application [../../cna/]
- How Assignment Grading Works [../..#assignment-grading]
- Assignment #01 [../../assignments/01/] discussion

Slides

- Networking Fundamentals [https://northeastern-my.sharepoint.com/:b:/g/personal/tejasparikh_northeastern_edu/EZ7HUWyXd1xEjCf_uRieCqkBHFo9LQj3EByQjCjXTxz7jA?e=8srGCU]
- Fundamentals of Cloud Computing [https://northeastern-my.sharepoint.com/:b:/g/personal/tejasparikh_northeastern_edu/EXEAmRB9zl9JgmIAv35j6PQBmQtNM1tmoRlADl8A1XxaxA?e=1BjRX6]

Reading

- Cloud Computing: Concepts, Technology & Architecture (ISBN: 9780133387520) [https://www.pearsonhighered.com/program/Erl-Cloud-Computing-Concepts-Technology-Architecture/PGM239182.html]
- Cloud Computing, Server Utilization, & the Environment [https://aws.amazon.com/blogs/aws/cloud-computing-server-utilization-the-environment/]

Networking

- Amazon Virtual Private Cloud Documentation [https://aws.amazon.com/documentation/vpc/]
- Virtual Private Cloud (VPC) on Google Cloud Platform [https://cloud.google.com/vpc/]
- IPv4 [https://en.wikipedia.org/wiki/IPv4]
- IPv6 [https://en.wikipedia.org/wiki/IPv6]
- Network Address Translation (NAT) [https://en.wikipedia.org/wiki/Network_address_translation]
- Reserved IP addresses [https://en.wikipedia.org/wiki/Reserved_IP_addresses]
- Private network [https://en.wikipedia.org/wiki/Private_network]
- Multicast [https://en.wikipedia.org/wiki/Multicast]
- Subnetwork [https://en.wikipedia.org/wiki/Subnetwork]
- CIDR Notation [https://en.wikipedia.org/wiki/Classless_Inter-Domain_Routing#CIDR_notation]
- OSI Model [https://en.wikipedia.org/wiki/OSI_model]
- Internet Protocol Suite [https://en.wikipedia.org/wiki/Internet_protocol_suite]
- VPC Networking Components such as Network, Interfaces, Route, Tables, Internet, Gateways, Egress-Only, Internet, Gateways, DNS, Elastic, IP, Addresses,VPC, Endpoints, NAT, VPC, Peering, ClassicLink

[https://docs.aws.amazon.com/AmazonVPC/latest/UserGuide/VPC_Networking.html]