

Lecture #06

Campus	Lecture Date	Lecture Recording Availability Date
Boston	06/15/2019	N/A
Online	N/A	06/15/2019

Agenda

- Review [Assignment #02](#) [../..assignments/02/]
- Virtualization
- Network Firewalls & Security Groups
- Domain Name System (DNS)
- AWS Route 53
- Amazon Machine Images (AMI)
- HashiCorp Packer
- Discuss [Assignment #03](#) [../..assignments/03/]

Slides

- [Virtualization](https://northeastern-my.sharepoint.com/:b:/g/personal/tejasparikh_northeastern_edu/Ee-TgJkV2IZLscQ5G5aLOF4BVA5zoqN4FQVPuSTTr1KZOg?e=i1hdFr) [https://northeastern-my.sharepoint.com/:b:/g/personal/tejasparikh_northeastern_edu/Ee-TgJkV2IZLscQ5G5aLOF4BVA5zoqN4FQVPuSTTr1KZOg?e=i1hdFr]

- [Network Firewalls & Security Groups](https://northeastern-my.sharepoint.com/:b:/g/personal/tejasparikh_northeastern_edu/EXaYHYdbkzNMhgaTwK7RDHUBw8zW9Xbxd3cmbtRFBUIJ-rw?e=VEvtpA) [https://northeastern-my.sharepoint.com/:b:/g/personal/tejasparikh_northeastern_edu/EXaYHYdbkzNMhgaTwK7RDHUBw8zW9Xbxd3cmbtRFBUIJ-rw?e=VEvtpA]
- [Domain Name System \(DNS\)](https://northeastern-my.sharepoint.com/:b:/g/personal/tejasparikh_northeastern_edu/EST1sHhCHsNAheAna3U_nHoBmBKIO-9oWc15zS3TvJZWjw?e=kEFyYk) [https://northeastern-my.sharepoint.com/:b:/g/personal/tejasparikh_northeastern_edu/EST1sHhCHsNAheAna3U_nHoBmBKIO-9oWc15zS3TvJZWjw?e=kEFyYk]
- [HashiCorp Packer](https://northeastern-my.sharepoint.com/:b:/g/personal/tejasparikh_northeastern_edu/Efa6qjrC9eVAiJ42EMbZ3toBiAr_CoLakTy4SVc5ITUjig?e=uaXnu2) [https://northeastern-my.sharepoint.com/:b:/g/personal/tejasparikh_northeastern_edu/Efa6qjrC9eVAiJ42EMbZ3toBiAr_CoLakTy4SVc5ITUjig?e=uaXnu2]

Lab

- [Amazon Machine Images \(AMI\) & Packer](#) [../lab/packer-ami/]

Reading

Virtualization and AWS EC2

- [Understanding virtualization](https://www.redhat.com/en/topics/virtualization) [https://www.redhat.com/en/topics/virtualization]
- [Virtualization](https://en.wikipedia.org/wiki/Virtualization) [https://en.wikipedia.org/wiki/Virtualization]
- [Amazon Elastic Compute Cloud \(Amazon EC2\)](https://aws.amazon.com/ec2/) [https://aws.amazon.com/ec2/]

Network Firewalls & Security Groups

- [Security Groups & Network Firewalls](http://docs.aws.amazon.com/AmazonVPC/latest/UserGuide/VPC_SecurityGroups.html) [http://docs.aws.amazon.com/AmazonVPC/latest/UserGuide/VPC_SecurityGroups.html]
- [Amazon EC2 Security Groups for Linux Instances](http://docs.aws.amazon.com/AWSEC2/latest/UserGuide/using-network-security.html) [http://docs.aws.amazon.com/AWSEC2/latest/UserGuide/using-network-security.html]

DNS

- [Root name server](https://en.wikipedia.org/wiki/Root_name_server) [https://en.wikipedia.org/wiki/Root_name_server]
- [An Introduction to DNS Terminology, Components, and Concepts](https://www.digitalocean.com/community/tutorials/an-introduction-to-dns-terminology-components-and-concepts)
[https://www.digitalocean.com/community/tutorials/an-introduction-to-dns-terminology-components-and-concepts]
- [DNS Best Practices, Network Protections, and Attack Identification](https://www.cisco.com/c/en/us/about/security-center/dns-best-practices.html)
[https://www.cisco.com/c/en/us/about/security-center/dns-best-practices.html]
- [AWS Route 53](http://docs.aws.amazon.com/Route53/latest/DeveloperGuide/Welcome.html)
[http://docs.aws.amazon.com/Route53/latest/DeveloperGuide/Welcome.html]

Packer & AWS AMIs

- [Amazon Machine Images \(AMI\)](https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/AMIs.html)
[https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/AMIs.html]
- [HashiCorp Packer](https://www.packer.io/) [https://www.packer.io/]

