Lecture #07

Agenda

* Review Assignment #4
* Cloud Storage Solutions
  + Relational Databases
  + NoSQL Databases
  + Object Storage
  + Instance Store (Local Hard Drive)
  + Block Storage
* Discuss Assignment #5

Reading

AWS EC2 UserData

[https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/user-data.html](https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/user-data.html )

AWS Cloud Storage Solutions

* [AWS Storage Services Whitepaper](https://d1.awsstatic.com/whitepapers/Storage/AWS%20Storage%20Services%20Whitepaper-v9.pdf)
* [Cloud Storage with AWS](https://aws.amazon.com/products/storage/?nc2=h_l3_db)
* [Amazon Elastic Block Storage (Amazon EBS)](https://aws.amazon.com/products/storage/?nc2=h_l3_db#ebs)
* [Amazon Elastic File System (Amazon EFS)](https://aws.amazon.com/products/storage/?nc2=h_l3_db#efs)
* [Amazon Simple Storage Service (Amazon S3)](https://aws.amazon.com/products/storage/?nc2=h_l3_db#s3)
* [Cloud Databases with AWS](https://aws.amazon.com/products/databases/?nc2=h_l3_db)
* [Amazon RDS](https://aws.amazon.com/rds/)
* [Amazon DynamoDB](https://aws.amazon.com/dynamodb/)
* [Amazon EC2 Security Groups for Linux Instances](http://docs.aws.amazon.com/AWSEC2/latest/UserGuide/using-network-security.html)
* [Amazon RDS Security Groups](http://docs.aws.amazon.com/AmazonRDS/latest/UserGuide/Overview.RDSSecurityGroups.html)

CloudFormation Template for EC2 Instance w/UserData

AWSTemplateFormatVersion: '2010-09-09'

Resources:

appServer:

Type: AWS::EC2::Instance

Properties:

ImageId: ami-XXXXXXX  
 .  
 .  
 .  
 .  
 .  
   UserData:

Fn::Base64:

!Sub |

#!/bin/bash

yum update -y #example command  
 # linux command   
 # linux command  
 # linux command   
 # linux command