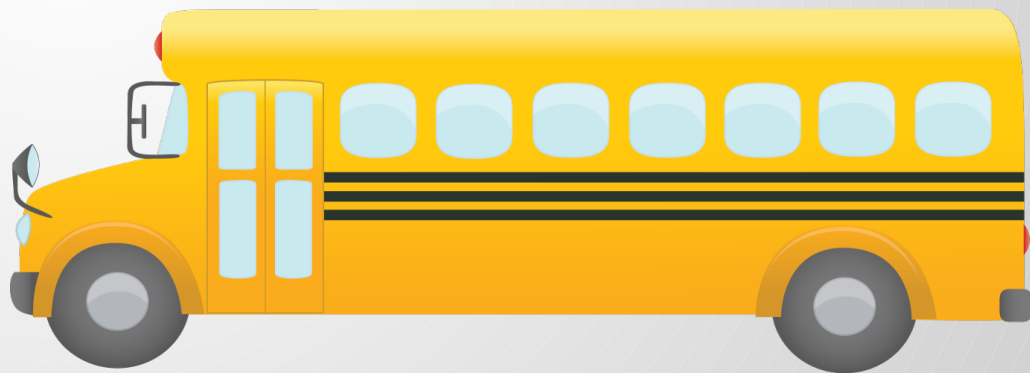


REA AWS Training – Day 2

Day 2: Let's get rolling

- Please git pull for any changes to the hands-on material



Day 2: Agenda

- CloudWatch
- Moar EC2-type things: Autoscaling, ELBs
- – BREAK –
- VPCs and Networking
- – LUNCH –
- Route53
- Application Services: SNS, SQS, SES
- – BREAK –
- Advanced CloudFormation



REA AWS Training

CloudWatch

CloudWatch

- can be used to
 - monitor metrics for AWS cloud resources and applications
 - collect and monitor log files
 - collect custom metrics
 - setup alarms
- examples:
 - EC2 instances: cpu, disk I/O, network I/O, status
 - can only see “outside” of the instance – custom metric for RAM, disk space
 - DynamoDB tables, RDS instances, Lambda
- application logs
 - line-oriented or json
 - filters, alarms, etc
 - agent-based (like splunk forwarder)



CloudWatch: Alarms

- Alarms based on
 - above, below, thresholds
 - sum, average, # samples, min, max of a metric
- Trigger various actions:
 - SNS topic notification
 - AutoScaling policy
 - EC2 action (recover/stop/terminate)



CloudWatch Log Alarms

- Allows you to generate alarms based on ingested logs
 - match patterns, event frequencies
- Examples:
 - CloudTrail → CloudWatch Logs
 - alert on “CreateVpcPeeringConnection”
 - Application logs → CloudWatch Logs
 - alert on ≥ 10 “500” HTTP responses in a 5-minute period



CloudWatch Hands-On

- Create stack using CloudFormation
- Investigate what metrics can be monitored
- Create an alarm and make it send you an email
- Cause the alarm to be triggered

