# GMS Hadoop 1 Day Workshop

Welcome back!



Amazon EMR (Elastic MapReduce)

Managed Hadoop framework using AWS instances and storage (S3).

Pay-as-you-go

Pre-requisite:

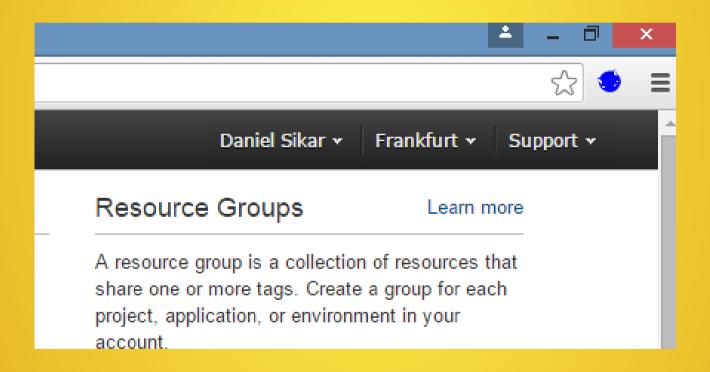
AWS user account

# PRACTICE 1 - Sign in

https://aws.amazon.com/console/

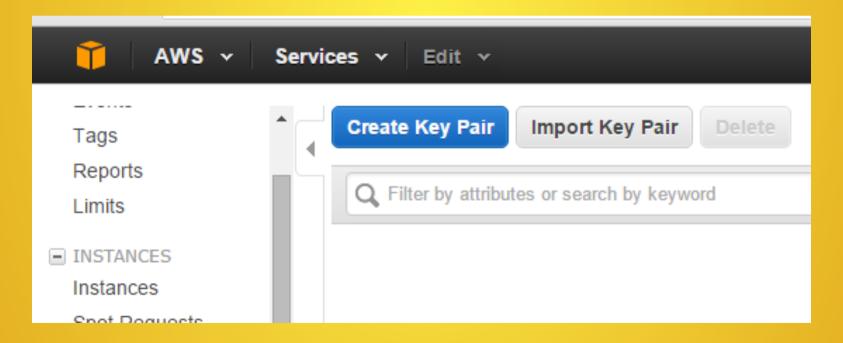
Sign in to the Console

#### # PRACTICE 2 - Change to nearest Region



# PRACTICE 3 - Create Key Pair

Services > EC2 > Key Pairs



A Note About AWS Regions:

Resources are contained within Regions.

Change Regions and your recently created Key Pair will not be there.

# PRACTICE 4 – Try it

A Note About Key Pairs:

If accessing AWS Instances (Virtual Machines) through Linux SSH, GMSHadoopWorkshop.pem will do, otherwise create .ppk file with puttygen and access with putty.

More to follow...

# PRACTICE 5 – Converting Key Pair

Using puttygen.exe, load the private key (Key Pair) file and "Save private key"

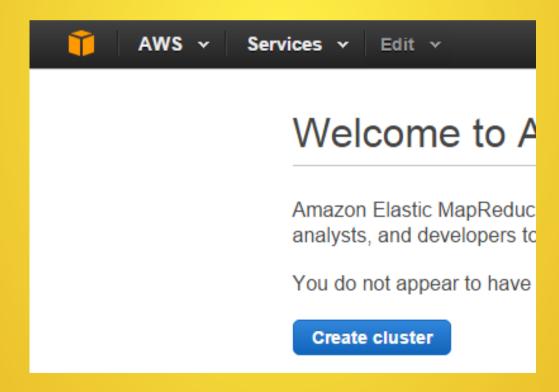
Actions		
Generate a public/private key pair	<u>G</u> enerate	
Load an existing private key file		<u>L</u> oad
Save the generated key	Save p <u>u</u> blic key	Save private key

# PRACTICE 6 - Save both .pem and ppk file to:

(...)\Documents\GSMHadoopWorkshop\.ssh

# PRACTICE 7 – Create Hadoop Cluster

> Services > EMR > Create Cluster

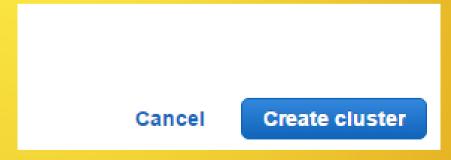


# PRACTICE 7 cont. – Configure Cluster

Cluster Name: <My Name> GMS Hadoop Cluster

Instance Type: m3.xlarge (\$0.315 instance/hour)

EC2 key pair: GMSHadoopWorkshop



A Note About Pricing: https://aws.amazon.com/ec2/pricing/

Cluster with 3 x m3.xlarge instances: Aproximate hourly cost 3 x \$0.315 ~ 1 USD Annual Cost (1 USD X 24 X 365) ~ 8.7k USD

# DON'T FORGET TO TERMINATE YOUR CLUSTER

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# PRACTICE 8 – SSH into Master Node
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# with putty (Auth ~ .ppk)
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# ssh
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>ssh -i .ssh\<my key pair>.pem hadoop@<public dns>

# PRACTICE 9 - SSH into Slave Node

Add SSH rule then SSH as per PRACTICE 8.

# PRACTICE 10 – assert HDFS works # as per HDFS Practice

# PRACTICE 11 – Terminate Cluster and delete S3 storage (bucket)

Services > S3 > Actions > Delete Bucket

Tip: Copy Bucket Name from Properties.

delete th	is bucket,	you may I	lose the buc	ket
			Cancel	Delete