Guide to Working with AWS CLI

To Start AWS CLI:

1. Navigate to the folder, Kingas-MacBook-Pro:AmazonEMRandRHadoop Kinga, then enter Conda environment, amazonEnv:

```
Kingas...Kinga$ source activate amazonEnv
```

2. Activate the virtual environment:

```
(amazonEnv) Kingas...Hadoop Kinga$ source ~/cli-ve/bin/activate
```

To Exit AWS CLI:

1. To exit Virtualenv:

```
(cli-ve) (amazonEnv) Kingas...Hadoop Kinga$ deactivate
```

2. To exit the Conda environment, amazonEnv:

```
(amazonEnv) Kingas...RHadoop Kinga$ source deactivate
```

Using AWS CLI

Checking the installation:

```
(cli-ve) (amazonEnv) Kingas...RHadoop Kinga$ aws -version
```

To configure AWS CLI:

```
(amazonEnv) Kingas...RHadoop Kinga$ aws configure
The AWS CLI will prompt you for four pieces of information
```

```
AWS Access Key ID [None]: see IAMaccessKeys.csv
Secret Access Key [None]: see IAMaccessKeys.csv
Default region name [None]: us-west-2
Default output format [None]: json
```

To update any of the settings, simply run **aws configure** again and enter new values as appropriate,

The CLI stores credentials specified with aws configure in a local file named credentials in a folder named .aws in your home directory. To look at the file:

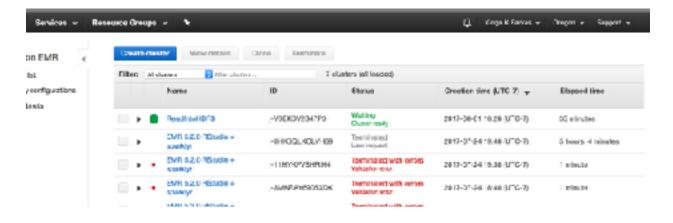
```
(cli-ve) (amazonEnv) Kingas...RHadoop Kinga$ 1s ~/.aws
$ aws ec2 create-key-pair --key-name theKey --query
'KeyMaterial' --output text > theKey.pem
$ aws emr create-cluster --applications Name=Hadoop Name=Spark
Name=Hive Name=Pig Name=Tez Name=Ganglia \
--release-label emr-5.2.0 --name "EMR 5.2.0 RStudio +
sparklyr" --service-role EMR DefaultRole \
--instance-groups
InstanceGroupType=MASTER, InstanceCount=1, InstanceType=m
3.2xlarge \
InstanceGroupType=CORE, InstanceCount=5, InstanceType=m3.
2xlarge --bootstrap-actions \
Path=s3://aws-bigdata-blog/artifacts/aws-blog-emr-
rstudio-sparklyr/rstudio sparklyr emr5.sh,\
Args=["--rstudio","--sparkr","--rexamples","--
plyrmr","--rhdfs","--sparklyr"],\
Name="Install RStudio" --ec2-attributes
InstanceProfile=EMR EC2 DefaultRole,KeyName=theKey \
--configurations
'[{"Classification":"spark","Properties":
{"maximizeResourceAllocation":"true"}}]' \
--region us-west-2
aws emr socks --cluster-id j-3HK6QLKOLYH09 --key-pair-file
theKey.pem
```

To connect to R-studio go to the link:

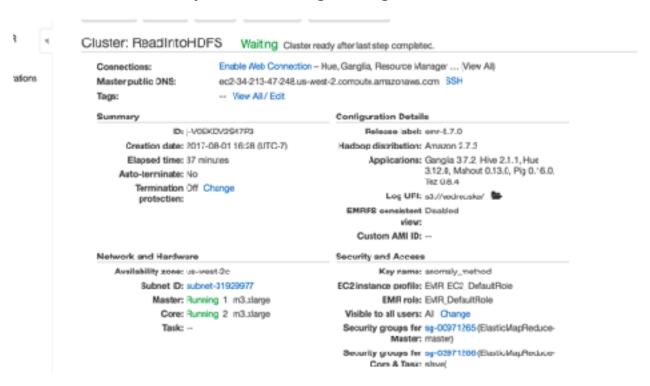
```
http://ec2-54-187-74-95.us-west-2.compute.amazonaws.com:8787
```

where http://ec2-54-187-74-95.us-west-2.compute.amazonaws.com is the Master Public DNS of your cluster. It can be found using AWS EMR console:

1. Go to the Cluster List



2. Select the cluster you are working on to get:



3.	The Master	Public	DNS is	the second	line in	the table.
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Important:

The login and password are both **hadoop**, unless you specified something different.