AWS CLI

What is AWS CLI ?

- The AWS Command Line Interface (CLI) is a unified tool to manage your AWS services.

- With just one tool to download and configure, you can control multiple AWS services from the command line and automate them through scripts.

CLI

Developing and performing AWS tasks against AWS can be done in several ways.

- Using the AWS CLI on our local computer
- Using the AWS CLI on our EC2 instance
- Using the AWS SDK on local or EC2 instance

CLI Installation

Install CLI on Windows using AWSCLI.MSI

Install CLI on Linux Machine

CLI Installation on Linux

Yum install –y python
python --version

- Yum install wget

- wget https://pypi.python.org/packages/source/s/setuptools/setuptools-7.0.tar.gz

- tar xvf setuptools-7.0.tar.gz

- cd setuptools-7.0

- python setup.py install

- wget https://bootstrap.pypa.io/get-pip.py

- python get-pip.py

- pip install awscli

- aws --version
  - AWS will store these credentials and configuration details in two separate files named ~/.aws/credentials and ~/.aws/config, respectively

AWS CLI on EC2 .. The Bad Way!!

- We could run 'AWS Configure' on EC2 just like we did (and all it works).

- But .. It's SUPER INSECURE.

- NEVER NEVER EVER PUT YOUR PERSONAL CREDENTIALS ON EC2.

- Your PERSONAL credentials are PERSONAL and only belongs on your PERSONAL computer.

- IF the EC2 is compromised, so is your personal account.

- If the EC2 is shared, other people may perform AWS actions while impersonating you.

- For EC2, there is a better way... its called AWS IAM ROLES

AWS CLI on EC2 .. The RIGHT Way!!

- IAM Roles can be attached to EC2 instances

- IAM Roles can come with a policy authorizing exactly what the EC2 instance should be able to do.

- This is the best practice on AWS, you should do it 100%

AWS NETWORK

EC2 Instance
IAM ROLE

CLI

AWS Account

(checks credentials and permissions of the ROLE)
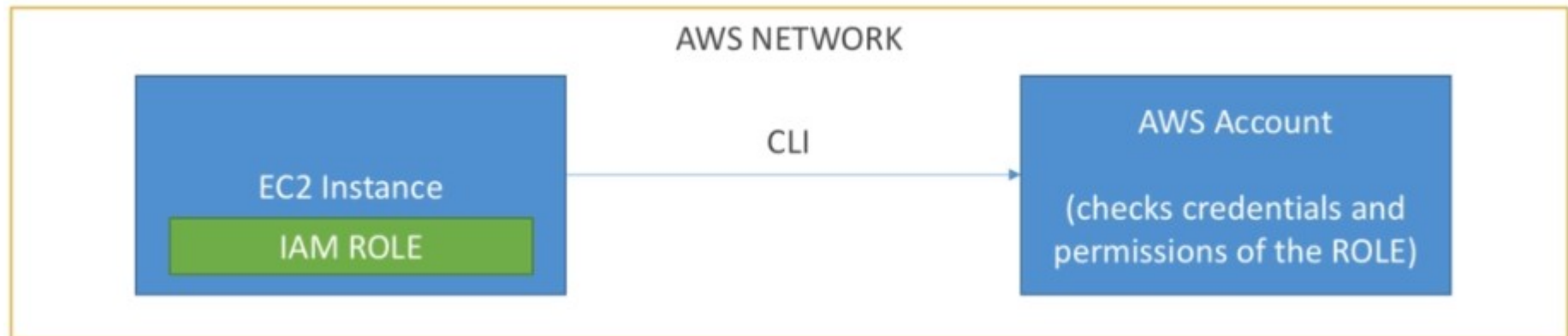
AWS EC2 Instance Metadata

- The URL curl http://169.254.169.254/latest/meta-data

- You can retrieve the IAM Role name from the meta-data, but you CANNOT retrieve the IAM policy.

- Meta-data = Info about EC2 instance

- User-data = launch script of the EC2 instance.

Lab on CLI

- Install CLI on local Linux machine.

- Configure CLI on EC2 with IAM Roles.