DEVSECOPS BOOTCAMP

BUILDING RUGGED SOFTWARE

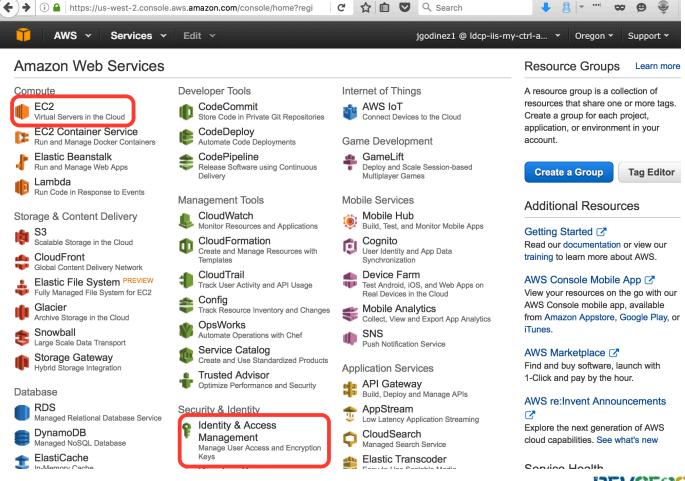
YEAR ONE / WEEK THREE/ LESSON ONE

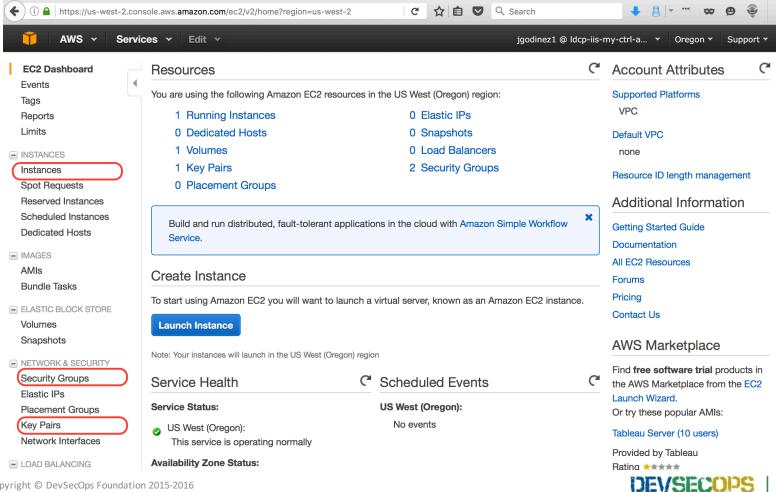
Agenda

- AWS Basics
 - The AWS Console
 - The CLI
 - IAM
 - EC2
- Control Plane

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```
$ aws ec2 describe-instances
"Reservations": [
         "OwnerId":
         "ReservationId": "r-04b4278667b89685f",
         "Groups": □,
         "Instances": [
                 "Monitoring": {
                     "State": "disabled"
                 "PublicDnsName": "e
                                                      west-2.compute.amazonaws.com",
                 "State": {
                    "Code": 16,
                     "Name": "running"
                },
                 "EbsOptimized": false,
                 "LaunchTime": "2016-06-07T23:21:05.000Z",
                 "PublicIpAddress":
                 "PrivateIpAddress": "10.0.0.25",
                 "ProductCodes": [],
                 "VpcId": "vpc-a8b03ccc",
                 "StateTransitionReason": "",
                 "InstanceId": "i-0990ad3249600bcab",
```

- IAM: Identity and Access Management
 - Two types of users, the root user and IAM users
 - Root: use a strong password, use MFA, and never use it
 - IAM users: use a strong password, use MFA, use least privilege
 - Separation of duties
 - IAM Admin
 - Deployment Admin
 - Read Only

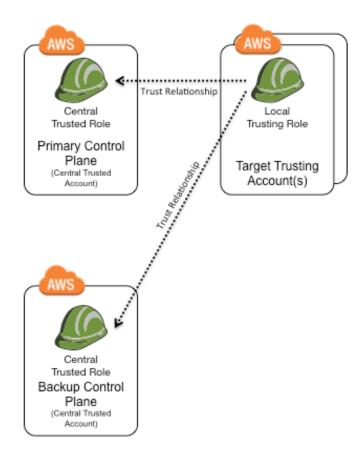


- EC2: Elastic Compute Cloud
 - Think stateless
 - Restack often
 - Restrict network access
 - Do not share access keys
 - Never use ec2-user



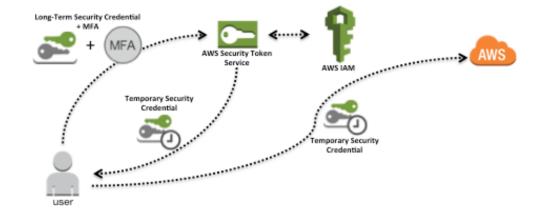
Control Plane

- Native use of AWS
- Blast Radius Containment
- Privileged Access Management
- Least Privilege



Control Plane

- Long tem access keys are used to assume a role in Control Plane (we receive temporary credentials)
- 2. Temporary credentials are used to assume a role in the Target account (we receive new temporary credentials)
- Temporary credentials can be used to create resources in Target account



Lab 1

• Week 3 Lab 1:

https://github.com/devsecops/bootcamp/blob/master/Week-3/labs/LAB-1.md