EC2 CLI (Windows)

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Setting up Windows EC2 instance is very similar to that of a linux instance.

1 Windows Image IDs

We can use Systems Manager to launch an instance using the following syntax. Instead of giving an AMI directly we use `resolve:ssm:` to tell AWS to look this value up in SSM.

```
# Look up available windows AMIs
aws ssm get-parameters-by-path `
--path /aws/service/ami-windows-latest `
--query "Parameters[].Name"

# run instance w/ specified Windows AMI
aws ec2 run-instances `
--subnet-id $SubnetId `
--image-id resolve:ssm:/aws/service/ami-windows-latest/Windows_Server-2022-English-Full-Base `
--instance-type t2.micro `
--key-name MAIN_KEY `
--security-group-ids $GroupId
```

2 Windows Password Data

See:

`https://docs.aws.amazon.com/cli/latest/reference/ec2/get-password-data.html`

```
# Assume we have the instance id stored in $InstanceId

aws ec2 get-password-data `
--instance-id $InstanceId `
--priv-launch-key file://~/.ssh/id_rsa
```

3 Lab exercise

Make sure you can login to the AWS Console. Then use the CLI to do the following:

1. Create a VPC `LAB_VPC`, IP range 10.0.0.0/16.
2. Create a Subnet `LAB_SUBNET_1` within your VPC, IP range 10.0.1.0/24.
3. Turn on auto IP address assignment in the subnet.
4. Create an Internet Gateway `LAB_GATEWAY`.
5. Attach the internet gateway to your VPC.
6. Alter the route table to send traffic for anywhere `0.0.0.0/0` to the internet gateway.
7. Create a security group `LAB_GROUP`.
8. Modify the security group to permit traffic inbound on SSH (22) and RDP (3389) protocols from anywhere `0.0.0.0/0`.
9. Create an instance `LAB_INSTANCE` to run Windows.
10. Wait until the instance is running.
11. Get the instance ID.
12. Get the instance's public IP.
13. Get the windows password data as shown in section 2.
14. Use RDP to login to the instance.