Homework 1

EC2 Readme Setup and Teardown

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Preliminary Steps

1. Log into your AWS Account
2. Navigate to the console and make note of the Region you are going to use
3. Navigate to the EC2 Dashboard

Step 1: Create Security Group

1. From the left column, choose Network and Security -> Security Groups
2. Choose: “Create Security Group”
3. Input the Security Group Name and the Description
4. The VPC should be set to default
5. Inbound HTTP rule should be “Anywhere IPv4”
6. Source should me (0.0.0.0/0)
7. DO NOT touch or change the Outbound Rules
8. Choose “Create Security Group”
9. Verify all settings are correct (check work)

Step 2: Obtain startup script from Theo or Aaron McDonald’s GitHub

1. Copy GitHub Script

Step 3: Launch EC2 Instance

1. Navigate to Instances:
    A. Go to the Left pane → Instances → Instances
    B. Click "Launch Instances"
2. Configure Instance:
    A. Name and Tags: Enter instance name, add relevant tags
    B. AMI Selection: Review AMI menu, ensure defaults are selected, collapse
    C. Instance Type: Review instance type menu, ensure proper sizing, collapse
    D. Key Pair: Select "Proceed without key pair", collapse

3. Network Settings:
    A. Don't click "Edit"
    B. Verify VPC selection
    C. *Note: Subnet selection is not critical for this lab*
    D. Ensure "Auto-assign public IP" is enabled
    E. Select your created Security Group *(NOT "launch-wizard"!)*
    F. Collapse section
4. Storage Configuration:
    A. Review Configure Storage menu
    B. *Brief discussion: What is EBS?*
    C. Collapse section
5. Advanced Settings:
    A. Open Advanced Settings
    B. Focus on User Data section only - ignore everything else
    C. Paste your chosen startup script
6. Launch:
    A. Review configuration
    B. Click "Launch Instance"

Step 4: Test Your Web Server

1. Wait for the instance to pass status checks
2. Copy the instance's public DNS address
3. Open your web browser
4. Navigate to: http://<public-DNS-address>
5. SPECIAL NOTE: Use http:// prefix, not https://

Step 5: Instructions for EC2 Teardown

1. Navigate to EC2

2. Choose: “Instances”
3. Select the instance to be terminated
4. Go to: “Instance State”
5. Choose “Terminate Instance”

Step 6: Delete Security Groups

1. Navigate to EC2
2. Choose: “Security Groups”
3. Select the security group you created
4. Go to: “Actions”
5. Choose: “Delete Security Group”
6. You are done