# HW1 - Readme Steps

- How to configure EC2 webserver
  - Steps 1: Build Security Group
    - Go to EC2 service
    - In left panel, go to Security Groups under Network & Security
    - Click on the Create Security Group button
    - Basic Details
      - Name - basic_webserver
      - Description - basic_webserver
      - VPC - default VPC
    - Add New Inbound Rule
      - Type - HTTP
      - Source - Anywhere-IPV4
      - Description - http
    - Do not modify Outbound Rules
    - Add Tags
      - Name - basic_webserver
      - Env - Dev
  - Step 2: Create EC2 Instance
    - Go to EC2 service
    - In left panel, go to Instances under Instances
    - Click on the Launch Instances button
    - Name & Tags
      - Name - basic_webserver
    - AMI
      - Use default Amazon Linux AMI
    - Instance Type
      - Use t2.micro (free tier)
    - Key Pair
      - If none exist then:
        - Create new key pair
          - Name - class7_keypair
          - Key pair type - RSA
          - Private key file format - .pem

- Click the Create key pair button
  - If one exist then use the appropriate keypair
- Network settings
  - Leave default for VPC, Subnet & Auto-assign public IP
  - Firewall (security group)
    - Toggle Select existing security group
  - Under Common security groups
    - Select the http security group
- Advanced details
  - User data
    - Paste in startup script
- Click the Launch Instance button to create instance
- Step 3: Access EC2 Instance Webserver
  - In the left panel, go to Instances
  - Once the instance is in a state of Running, click on the Instance ID
  - Copy the public Public DNS
  - In web browser url search bar enter: http://{ Public DNS }
  - ...
- Step 4: Teardown
  - In the left panel, go to Instances
  - Select the running instance
  - Under the Instance state dropdown, select terminate (delete) instance
  - Click on the Terminate (delete) button