**Lesson 10 Demo 2**

**Create Container Registry Using AWS ECR**

**Objective:** To create a container image repository using AWS ECR and push images into it

**Tools required:** AWS account

**Prerequisites:** NA

**Steps to be followed:**

1. Create an ECR repository
2. Launch an EC2 Instance
3. Install docker on the EC2 instance
4. Push container image to the repository

**Step 1: Create an ECR repository**

* 1. **Graphical user interface, text, application

     Description automatically generated**In the AWS management console, search for **ECR** and then click on **Elastic Container Registry**
  2. In the ECR console, click on **Get Started**

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* 1. In the **Repository name** section, give an arbitrary name to your repository, then click on **Create repository**

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Once the repository is successfully created it will be visible on the **Repositories dashboard.**

Graphical user interface, text, application, email

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**Note**: To perform further steps duplicate the above tab, and do not close this tab.

**Step 2: Launch an EC2 instance**

**![Graphical user interface, application

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generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RDiRXhpZgAATU0AKgAAAAgABAE7AAIAAAAIAAAISodpAAQAAAABAAAIUpydAAEAAAAQAAAQyuocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFByYWtoYXIAAAWQAwACAAAAFAAAEKCQBAACAAAAFAAAELSSkQACAAAAAzUyAACSkgACAAAAAzUyAADqHAAHAAAIDAAACJQAAAAAHOoAAAAIAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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i9W/74P+FH2qL1b/vg/wCFF0BNRUP2qL1b/vg/4UfaovVv++D/AIUXQE1FQ/aovVv++D/hR9qi9W/74P8AhRdATUVD9qi9W/74P+FH2qL1b/vg/wCFF0BNRUP2qL1b/vg/4UfaovVv++D/AIUXQE1FQ/aovVv++D/hR9qi9W/74P8AhRdATUVD9qi9W/74P+FH2qL1b/vg/wCFF0BNRUP2qL1b/vg/4UfaovVv++D/AIUXQE1FQ/aovVv++D/hR9qi9W/74P8AhRdATUVD9qi9W/74P+FH2qL1b/vg/wCFF0BNRUP2qL1b/vg/4UfaovVv++D/AIUXQE1FQ/aovVv++D/hR9qi9W/74P8AhRdATUVD9qi9W/74P+FH2qL1b/vg/wCFF0BNRUP2qL1b/vg/4UfaovVv++D/AIUXQE1FQ/aovVv++D/hR9qi9W/74P8AhRdATUVD9qi9W/74P+FH2qL1b/vg/wCFF0BNRUP2qL1b/vg/4UfaovVv++D/AIUXQE1FQ/aovVv++D/hR9qi9W/74P8AhRdATUVD9qi9W/74P+FH2qL1b/vg/wCFF0BNRUP2qL1b/vg/4UfaovVv++D/AIUXQE1FQ/aovVv++D/hR9qi9W/74P8AhRdATUVD9qi9W/74P+FH2qL1b/vg/wCFF0BNRUP2qL1b/vg/4UfaovVv++D/AIUXQE1FQ/aovVv++D/hR9qi9W/74P8AhRdATUVD9qi9W/74P+FH2qL1b/vg/wCFF0BNRUP2qL1b/vg/4UfaovVv++D/AIUXQE1FQ/aovVv++D/hR9qi9W/74P8AhRdATUVD9qi9W/74P+FH2qL1b/vg/wCFF0BNRUP2qL1b/vg/4UfaovVv++D/AIUXQE1FQ/aovVv++D/hR9qi9W/74P8AhRdATUVD9qi9W/74P+FH2qL1b/vg/wCFF0BC/wDx8S/UfyFep/s+f8lAvv8AsFyf+jYq8rJ3SO46MeM/SvVP2fP+SgX3/YLk/wDRsVZy+Flx3PoyuH+Mn/JJdZ/7Yf8Ao+Ou4rh/jJ/ySXWf+2H/AKPjrnjujZ7HyvRRRXUYBRRRQB9RfGSCZPhPrJeK1UfaInzGpB2mVAD/AL+ep9M18u0UVnT2LnuFFFFaEBRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAHp7kD8zVj7Ovq1FFNCYfZ19Wo+zr6tRRTsIPs6+rUfZ19WooosAfZ19Wo+zr6tRRRYA+zr6tR9nX1aiiiwB9nX1aj7Ovq1FFFgD7Ovq1H2dfVqKKLAH2dfVqPs6+rUUUWAPs6+rUfZ19WooosAfZ19Wo+zr6tRRRYA+zr6tR9nX1aiiiwB9nX1aj7Ovq1FFFgD7Ovq1H2dfVqKKLAH2dfVqPs6+rUUUWAPs6+rUfZ19WooosAfZ19Wo+zr6tRRRYA+zr6tR9nX1aiiiwB9nX1aj7Ovq1FFFgD7Ovq1H2dfVqKKLAH2dfVqPs6+rUUUWAPs6+rUfZ19WooosAfZ19Wo+zr6tRRRYA+zr6tR9nX1aiiiwB9nX1aj7Ovq1FFFgD7Ovq1H2dfVqKKLAH2dfVqPs6+rUUUWAPs6+rUfZ19WooosAfZ19Wo+zr6tRRRYA+zr6tR9nX1aiiiwB9nX1aj7Ovq1FFFgD7Ovq1H2dfVqKKLAH2dfVqPs6+rUUUWAPs6+rUfZ19WooosAfZ19Wo+zr6tRRRYA+zr6tR9nX1aiiiwB9nX1aj7Ovq1FFFgD7Ovq1H2dfVqKKLAH2dfVqPs6+rUUUWAPs6+rUfZ19WooosBA3EjL/dOP0zXqf7Pn/JQL7/ALBcn/o2Kiis5fCy47n0ZXD/ABk/5JLrP/bD/wBHx0UVzx3Rs9j5XooorqMAooooA//Z)** 2.1In the AWS management console, search for **EC2,** and then click on **EC2**

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Description automatically generated** 2.2In the **Choose AMI** tab, select **Amazon Linux 2 AMI**

Table

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2.4 In the **Configure Instance Details,** go to **IAM role,** and click on **Create new IAM role**

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2.5 In the **IAM console,** click on **Create role**

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2.6 In the **Select trusted entity** section do the following:

* Select **AWS service** as a Trusted entity type
* Select **EC2** in Common use cases
* Click on **Next**

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2.7 On the **Add permissions** page do the following:

* Search for **Registry** in the search box then press enter
* Select **AmazonEC2ContainerRegistryFullAccess** from the search results
* Now click on Next

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2.8 In the **Name, review, and create** section do the following:

* Enter an arbitrary **Role name**
* Click on Create role

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2.9 Now go back to the EC2 management console, add the **IAM role** created in step 2.5, and click on **Next**

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2.10 In the **Step 6: Configure Security Group** do the following:

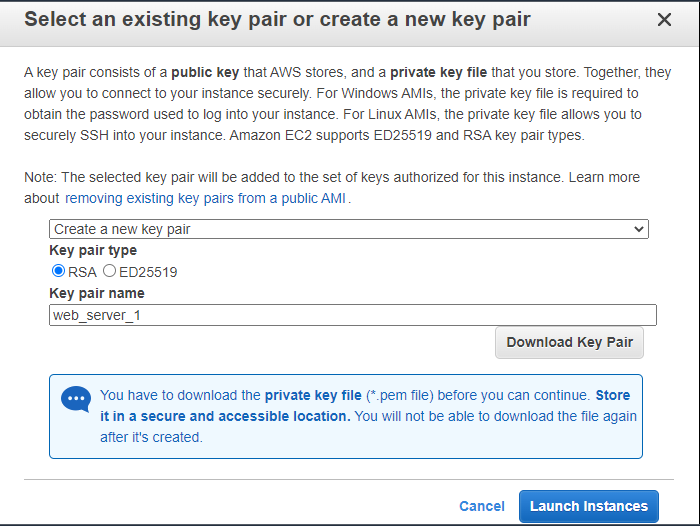
* Choose to **Create a new security group**
* Click on **Add Rule** and then add **HTTP** and **HTTPS**
* Graphical user interface, text

  Description automatically generatedClick on **Review and Launch**

2.11 Click on **Launch,** the **key-pair generation window** will open in

that do the following:

* **Create new key-pair** and then give an arbitrary name to the key-pair
* Click on **Download Key Pair** then click on **Launch Instance**



2.12 Now you can go to **EC2 dashboard**, select the instance then do the following:

* Select **EC2 Instance Connect** then click on **Connect**

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**Step 3: Install docker on the EC2 instance**

3.1 To install docker run the following commands in your EC2 instance:

* ***sudo yum update -y***
* ***sudo amazon-linux-extras install docker***
* ***clear***

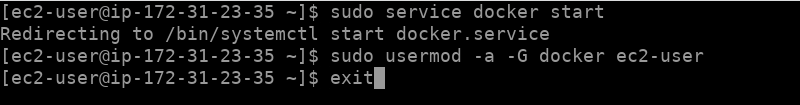
***Text

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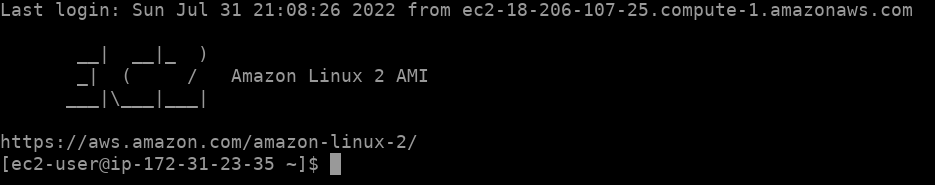
***Text

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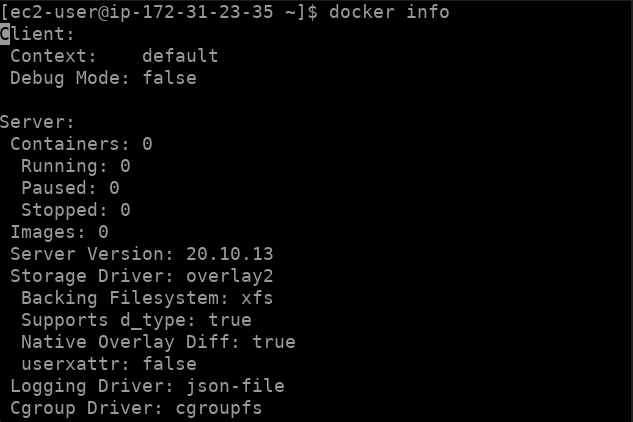
* ***sudo service docker start***
* ***sudo usermod -a -G docker ec2-user***
* ***exit***



Now close your current session and again connect to your EC2 instance by referring to step 2.12



3.2 Verify that the ec2-user can run Docker commands without sudo



**Step 4: Create and push the Docker image to the repository**

* 1. Run the following commands to create a docker image of a simple web application:

**touch Dockerfile**



* 1. Open the docker file by using the command **vi Dockerfile**

Paste the following code into your docker file created in step 4.1

**FROM ubuntu:18.04**

**# Install dependencies**

**RUN apt-get update && \**

**apt-get -y install apache2**

**# Install apache and write hello world message**

**RUN echo 'Hello World!' > /var/www/html/index.html**

**# Configure apache**

**RUN echo '. /etc/apache2/envvars' > /root/run\_apache.sh && \**

**echo 'mkdir -p /var/run/apache2' >> /root/run\_apache.sh && \**

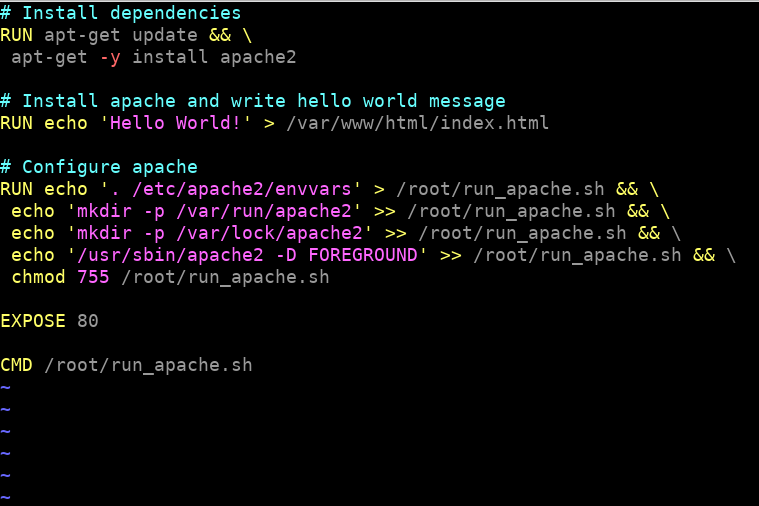
**echo 'mkdir -p /var/lock/apache2' >> /root/run\_apache.sh && \**

**echo '/usr/sbin/apache2 -D FOREGROUND' >> /root/run\_apache.sh && \**

**chmod 755 /root/run\_apache.sh**

**EXPOSE 80**

**CMD /root/run\_apache.sh**



Now, press the **escape** key on your keyboard and enter **:wq** to save and quit from the vi editor:

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* 1. Enter the following command to build and push the docker image into your ECR repository:
* Copy the first command and run it:

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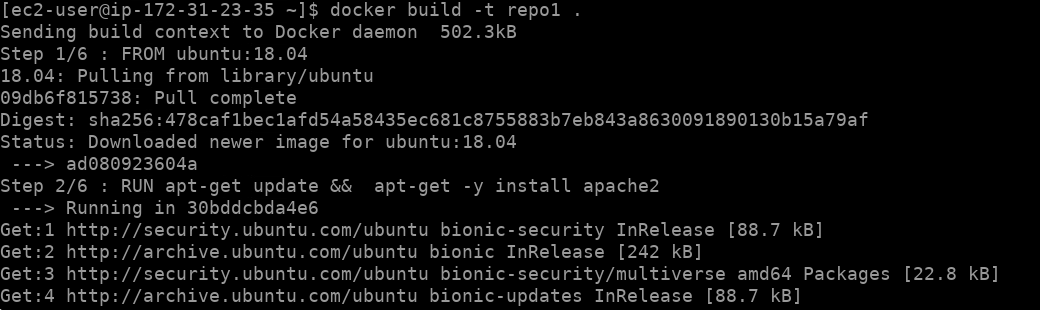
Text

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* Run the second command to build your Docker image:

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****

Run the third command to tag your Docker image:

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* Run the third command to build your Docker image so that it can be pushed to the repository:

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Now run the fourth command to push the image into the repository:



* Run the fourth command to push the image in the repository:

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* Now go to your ECR repository console and click on the repository created in step 1:

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* In this repository you will find the image you just pushed into it:

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* Hence the image repository is successfully created, and an image is pushed into it.