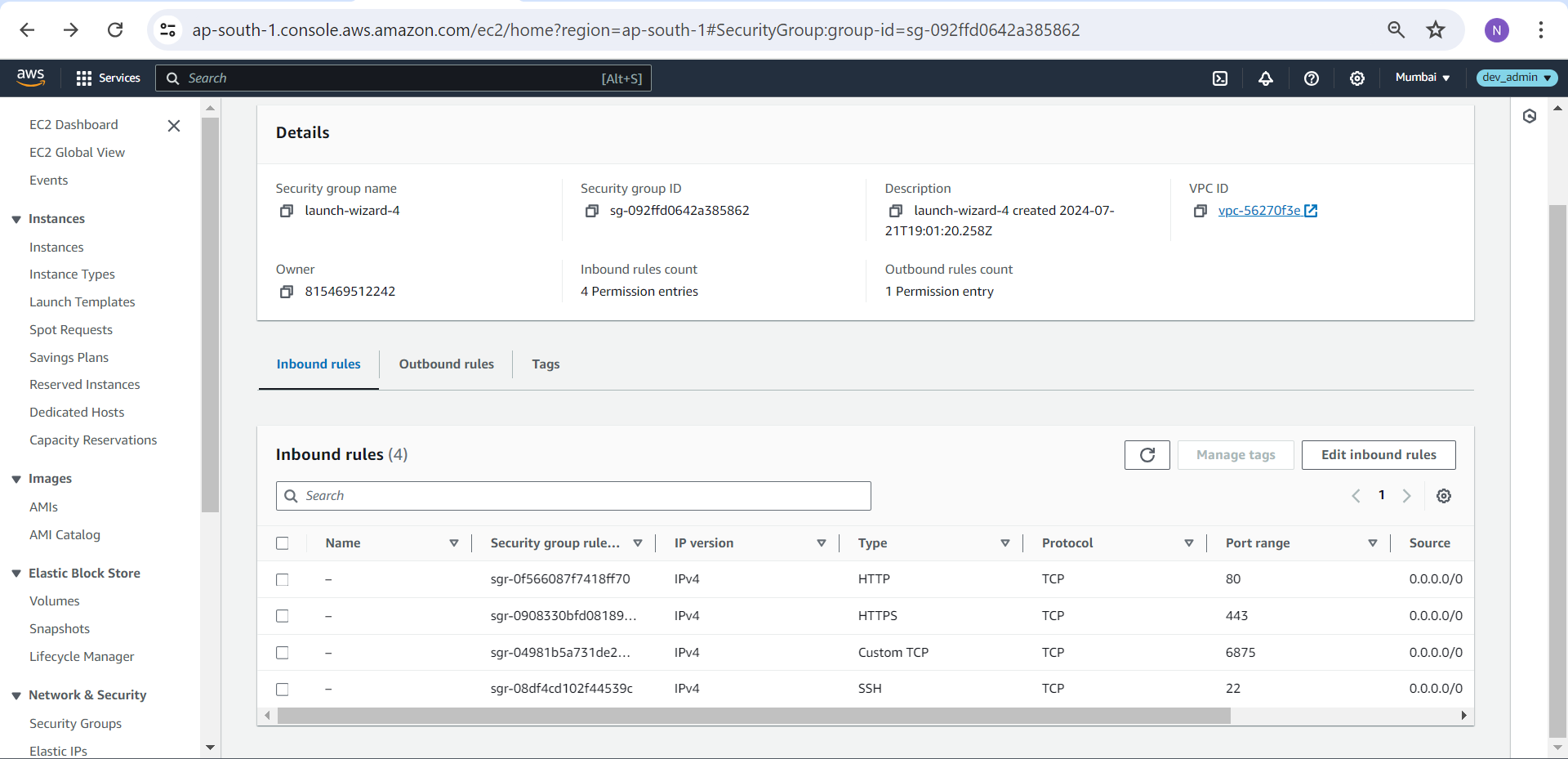
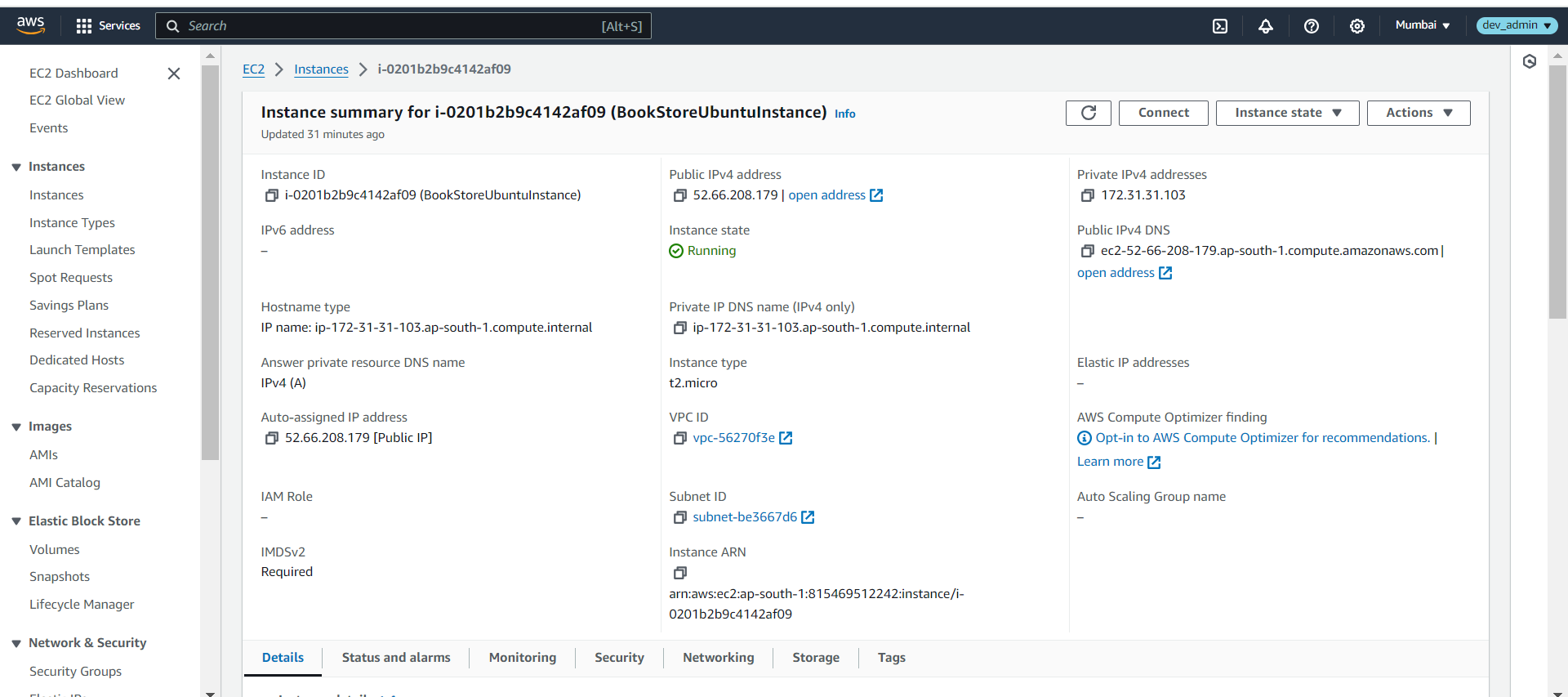
 **How the deployment of Bookstack looks like and its link:** [**http://52.66.208.179:6875/login**](http://52.66.208.179:6875/login)

**Security groups involved in it**





**Instance details which I have used**

# BookStack documentation

**Launch an Ubuntu EC2 instance:**

* **Navigate to the EC2 Dashboard:** After logging in, navigate to the EC2 Dashboard by selecting "Services" at the top left of the page and then selecting "EC2" under the "Compute" section.
* **Click on "Launch Instance":** On the EC2 Dashboard, click the "Launch Instance" button.
* **Choose an Amazon Machine Image (AMI):** Select an Ubuntu AMI. For this guide, you can use "Ubuntu Server 20.04 LTS (HVM), SSD Volume Type" from the list of available AMIs.
* **Choose an Instance Type:** Select an instance type that meets your needs. For testing and light workloads, the t2.micro instance type is usually sufficient and is eligible for the AWS Free Tier.
* **Configure Instance Details:** Configure your instance details as needed. For basic setup, the default settings are generally sufficient. Ensure that the instance is in the correct VPC and subnet if you're using custom networking settings.
* **Add Storage:** The default storage configuration is usually sufficient for testing purposes. You can adjust the size and type of the root volume as needed.
* **Add Tags (optional):** You can add tags to help you manage and identify your instances. For example, you can add a tag with a key of "Name" and a value of "BookStackServer".
* **Configure Security Group:** Create a new security group or select an existing one. Ensure the security group allows SSH access (port 22) from your IP address:
  + Type: SSH
  + Protocol: TCP
  + Port Range: 22
  + Source: Your IP address (or 0.0.0.0/0 for testing purposes, but this is less secure)
* **Review and Launch:** Review your instance settings and click "Launch." You will be prompted to select an existing key pair or create a new one for SSH access to your instance. Make sure to download the key pair file (.pem) and keep it secure.
* **Wait for the instance to start:** After launching the instance, it will take a few minutes for AWS to provision and start it. You can monitor its status on the EC2 Dashboard.

**Connect to your EC2 instance:**

* **Find your instance’s public IP address or public DNS name:** Once your instance is running, locate its public IP address or public DNS name on the EC2 Dashboard under the "Instances" section.

Open a terminal on your local machine and connect via SSH:  
  
ssh -i /path/to/your-key-pair.pem ubuntu@your-ec2-public-ip

* Replace /path/to/your-key-pair.pem with the path to your downloaded key pair file and your-ec2-public-ip with the public IP address or DNS name of your EC2 instance.
* Example:  
    
  ssh -i ~/Downloads/BookStackKeyPair.pem ubuntu@13.232.112.39

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### **Step 1: Install Docker and Docker Compose on your EC2 instance**

**Update Package Information:**  
sudo apt-get update

1. **Install Docker:**  
   sudo apt-get install docker.io

sudo systemctl start docker

sudo systemctl enable docker

1. **Install Docker Compose:**sudo curl -L "https://github.com/docker/compose/releases/download/1.29.2/docker-compose-$(uname -s)-$(uname -m)" -o /usr/local/bin/docker-compose

sudo chmod +x /usr/local/bin/docker-compose

1. **Verify Installation:**  
   docker-compose --version

### **Step 2: Create Directory and Docker-Compose File**

**Create directory for BookStack:**  
sudo mkdir -p /mnt/bookstack

cd /mnt/bookstack

1. **Create the docker-compose.yml file:**  
   sudo nano /mnt/bookstack/docker-compose.yml

Copy and paste the following content into the file:

services:

bookstack:

image: lscr.io/linuxserver/bookstack

container\_name: bookstack

environment:

- PUID=1000

- PGID=1000

- TZ=Europe/London

- APP\_URL=http://52.66.208.179:6875

- DB\_HOST=bookstack\_db

- DB\_PORT=3306

- DB\_USER=bookstack

- DB\_PASS=bookstack

- DB\_DATABASE=bookstackapp

volumes:

- /mnt/bookstack/config:/config

ports:

- 6875:80

restart: unless-stopped

depends\_on:

- bookstack\_db

bookstack\_db:

image: lscr.io/linuxserver/mariadb

container\_name: bookstack\_db

environment:

- PUID=1000

- PGID=1000

- TZ=Europe/London

- MYSQL\_ROOT\_PASSWORD=bookstack

- MYSQL\_DATABASE=bookstackapp

- MYSQL\_USER=bookstack

- MYSQL\_PASSWORD=bookstack

volumes:

- /mnt/bookstack/config:/config

restart: unless-stopped

1. **Save and close the file** (Press Ctrl+X, then Y, and Enter).

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### **Step 3: Configure Security Group**

1. **Open the AWS Management Console and navigate to the EC2 Dashboard.**
2. **Select your instance and note the security group(s) associated with it.**
3. **Edit Inbound Rules:**
   * **Custom TCP Rule:**
     + Protocol: TCP
     + Port Range: 6875
     + Source: Your IP address (or 0.0.0.0/0 for testing purposes)
   * **SSH (if needed):**
     + Protocol: TCP
     + Port Range: 22
     + Source: Your IP address (or 0.0.0.0/0 for testing purposes)
4. **Save the rules.**

### **Step 4: Start Docker Compose**

**Navigate to the directory:**  
cd /mnt/bookstack

**Run Docker Compose:**  
sudo docker-compose up -d

### **Step 5: Verify Port Binding**

**Install net-tools if not installed:**  
sudo apt update

sudo apt install net-tools

**Check Port Binding with netstat:**  
sudo netstat -tuln | grep 6875

Alternatively, use ss:  
  
sudo ss -tuln | grep 6875

### **Step 6: Access BookStack**

Open your web browser and navigate to http://52.66.208.179:6875.

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### **Summary of Commands:**

sudo apt-get update

sudo apt-get install docker.io

sudo systemctl start docker

sudo systemctl enable docker

sudo curl -L "https://github.com/docker/compose/releases/download/1.29.2/docker-compose-$(uname -s)-$(uname -m)" -o /usr/local/bin/docker-compose

sudo chmod +x /usr/local/bin/docker-compose

docker-compose --version

sudo mkdir -p /mnt/bookstack

cd /mnt/bookstack

sudo nano /mnt/bookstack/docker-compose.yml

sudo docker-compose up -d

sudo apt update

sudo apt install net-tools

sudo netstat -tuln | grep 6875

sudo ss -tuln | grep 6875

### **SCP Commands (if needed):**

**Transfer docker-compose.yml to EC2:**  
scp -i ~/Downloads/BookStackKeyPair.pem /path/to/your/local/docker-compose.yml ubuntu@13.232.112.39:/tmp/

**SSH into EC2 and move the file:**  
ssh -i ~/Downloads/BookStackKeyPair.pem ubuntu@13.232.112.39

sudo mv /tmp/docker-compose.yml /mnt/bookstack/docker-compose.yml

### **Troubleshooting**

**If docker-compose command is not found:**  
sudo apt-get update

sudo apt-get install docker.io

sudo systemctl start docker

sudo systemctl enable docker

sudo curl -L "https://github.com/docker/compose/releases/download/1.29.2/docker-compose-$(uname -s)-$(uname -m)" -o /usr/local/bin/docker-compose

sudo chmod +x /usr/local/bin/docker-compose

* docker-compose --version

**Some important links**

<https://www.youtube.com/watch?v=VQj5kg7orAM>

<http://52.66.208.179:6875/login>