Usage instructions:

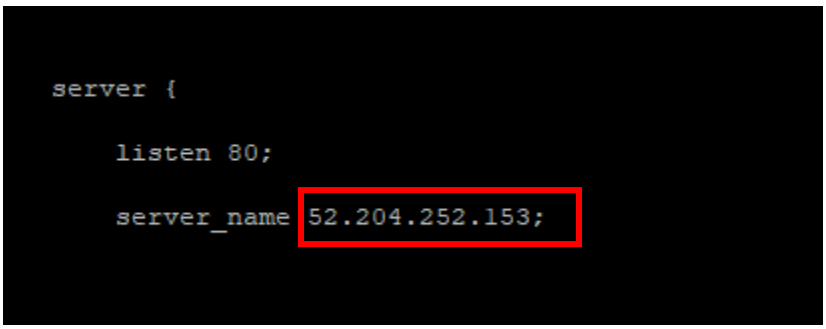
Launch the product via 1-click. **Please wait until** the instance passes **all** status checks and is running. You can connect using your Amazon private key and '**ubuntu**' login via your SSH client.

- To update software, use: **sudo apt-get update**

1. Next configure the Nginx server. Run the following command:

   sudo nano /etc/nginx/nginx.conf

   - Change the server_name to your instance's **Public IPv4 address** or a domain name.



   - **Save & Exit**

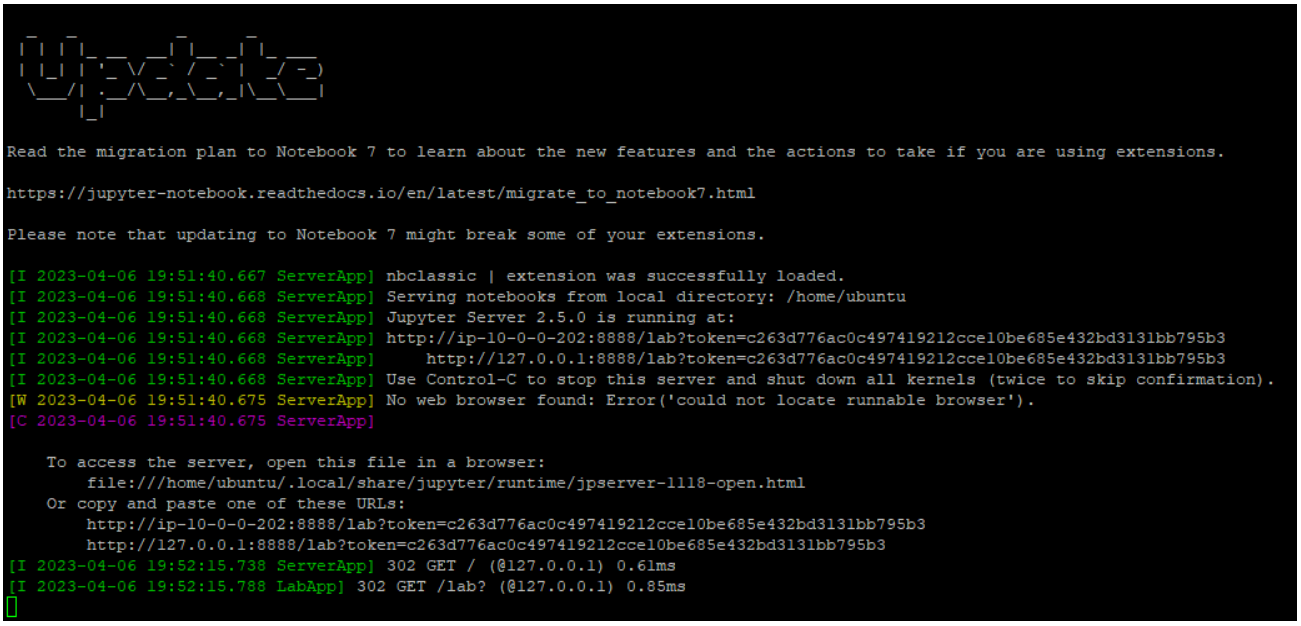
2. Restart Nginx:

   sudo systemctl restart nginx

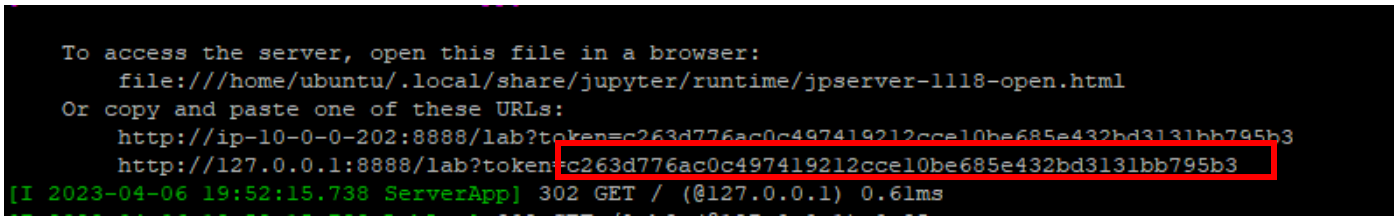
3. Run the JupyterLab server.

   jupyter lab --ip 0.0.0.0

   - You should see the following image.

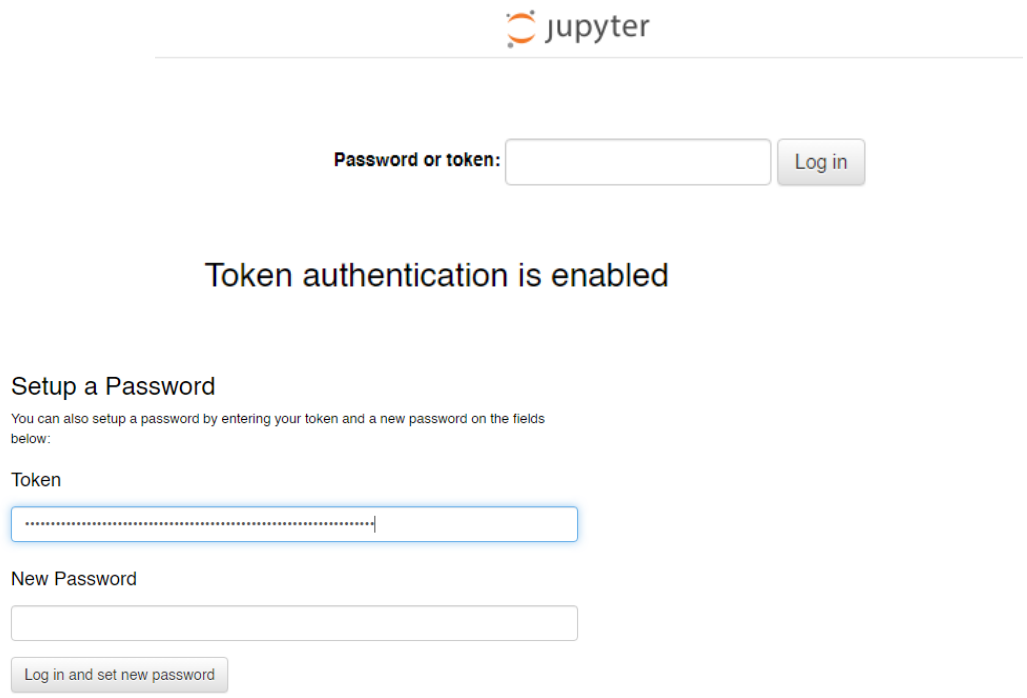


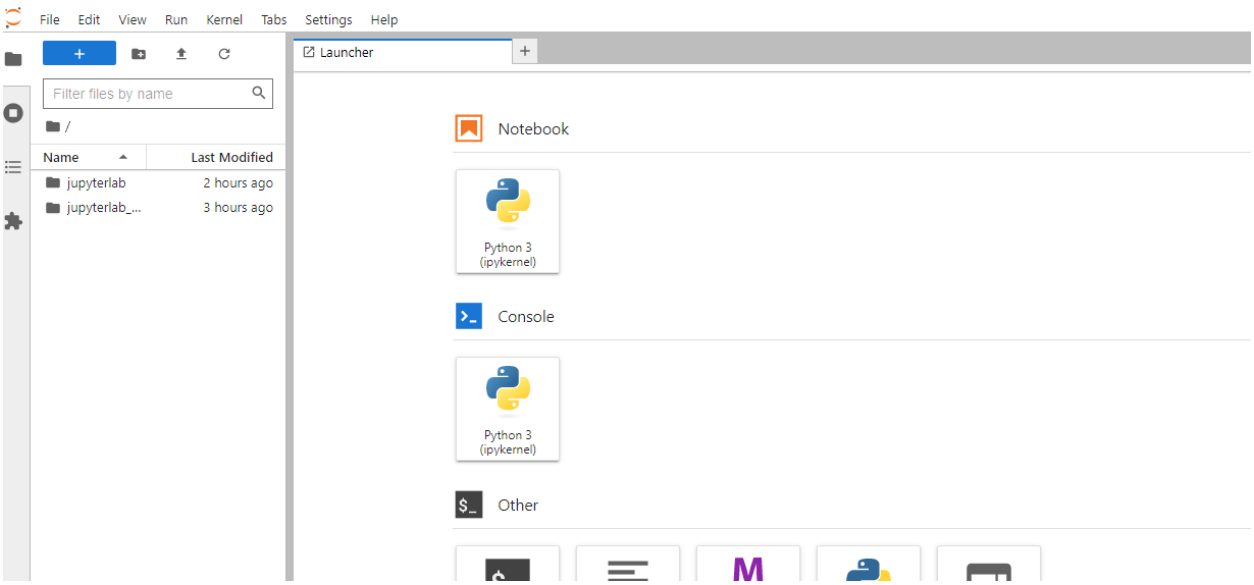
Note: Please take notice of your Token for the GUI login.



4. In browser, go to your Public IPv4 address to log into the JupyterLab server interface.

   Copy and Paste the token here or create a password.





- **<u>Leave your server running</u>** To stop the server using **CTRL+C** to follow along with the next steps.

- For More Info: https://jupyterlab.readthedocs.io/en/stable/

<u>AWS Data</u>

- Data Encryption Configuration: This solution does not encrypt data within the running instance.
- User Credentials are stored: /root/.ssh/authorized_keys & /home/ubuntu/.ssh/authorized_keys
- Monitor the health:
    - Navigate to your Amazon EC2 console and verify that you're in the correct region.
    - Choose Instance and select your launched instance.
    - Select the server to display your metadata page and choose the Status checks tab at the bottom of the page to review if your status checks passed or failed.

Extra Information: **(Optional)**

Allocate Elastic IP

To ensure that your instance **keeps its IP during restarts** that might happen, configure an Elastic IP. From the EC2 console:

1. Select ELASTIC IPs.
2. Click on the ALLOCATE ELASTIC IP ADDRESS.
3. Select the default (Amazon pool of IPv4 addresses) and click on ALLOCATE.
4. From the ACTIONS pull down, select ASSOCIATE ELASTIC IP ADDRESS.
5. In the box that comes up, note down the Elastic IP Address, which will be needed when you configure your DNS.
6. In the search box under INSTANCE, click and find your INSTANCE ID and then click ASSOCIATE.
7. Your instance now has an elastic IP associated with it.
8. For additional help: https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/elastic-ip-addresses-eip.html

Using Your Own Domain Name

1. You will need to configure your DNS entry for the new host server you created.
2. Change your domain's "Record Set" value to point to your new instance. Change and copy your "IPv4 Public IP" into the "A" type value.
3. For additional help: https://docs.aws.amazon.com/Route53/latest/DeveloperGuide/rrsets-working-with.html

Deploy a SSL for a Domain Name

1. Install AWS Certificate: https://docs.aws.amazon.com/elasticloadbalancing/latest/classic/ssl-server-cert.html

   or

2. Installing Cerbot: https://certbot.eff.org/instructions