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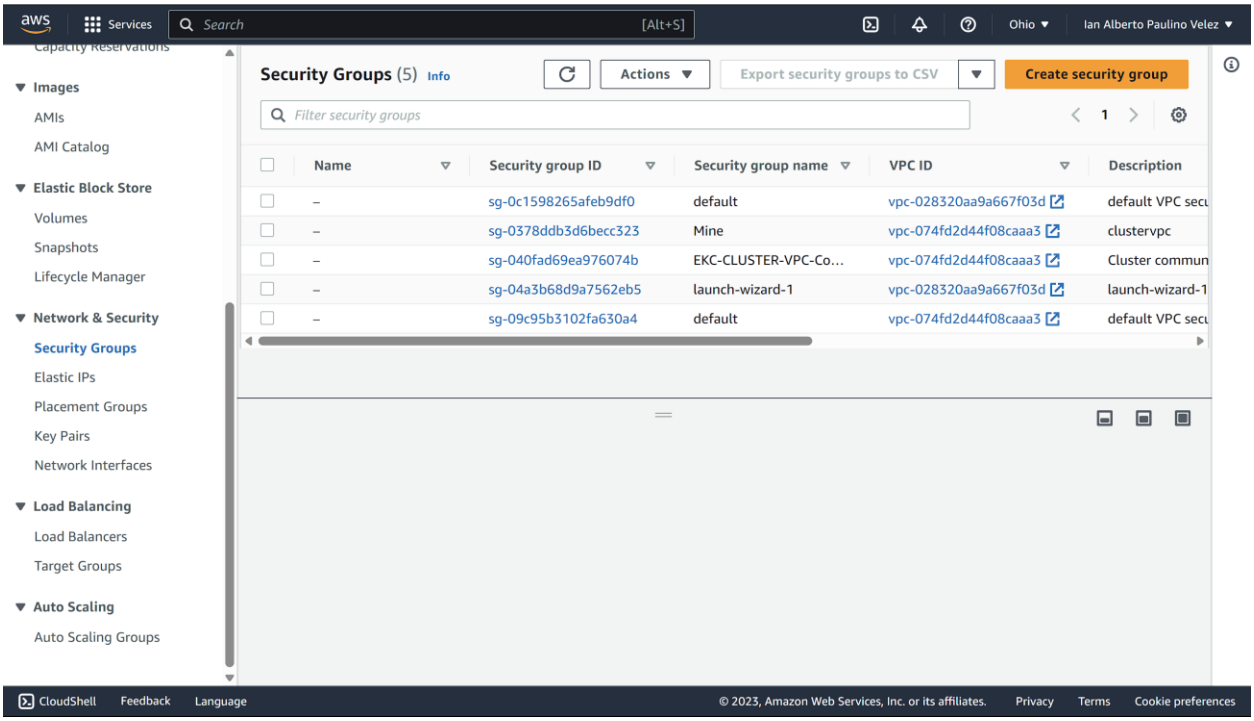
LISUM24

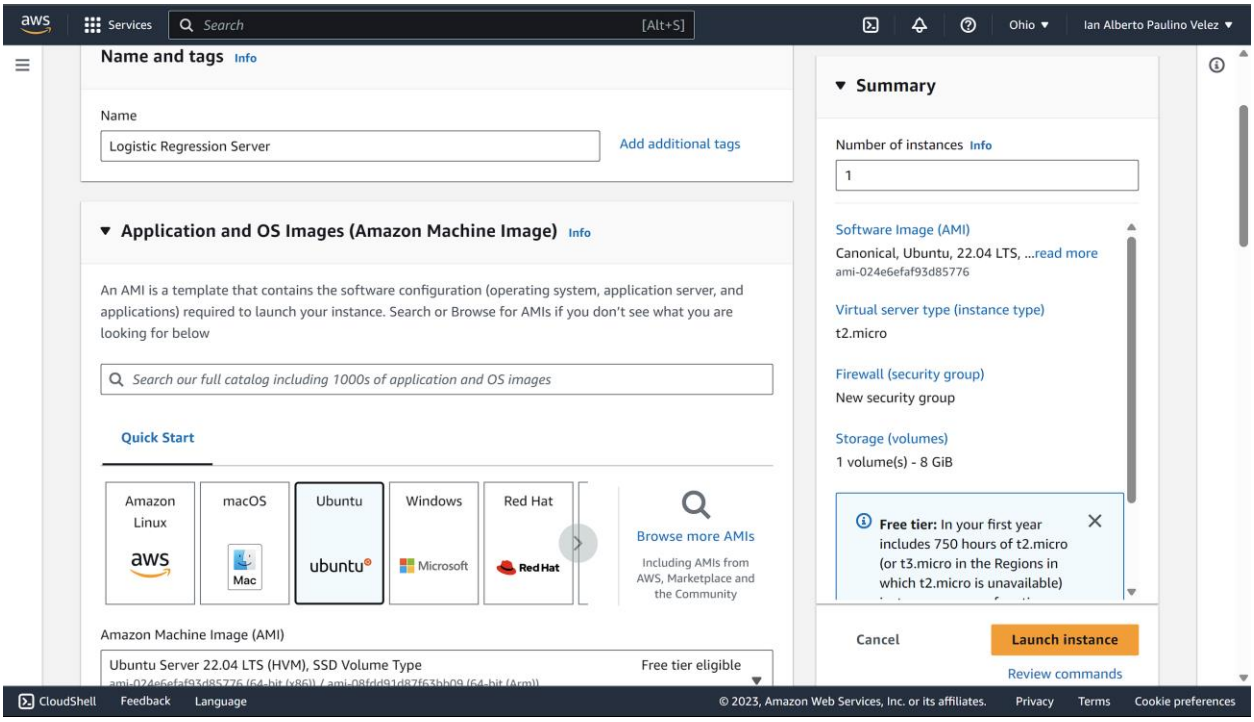
09/04/2023

Logistic Regression Model to predict Diabetes deployment on AWS

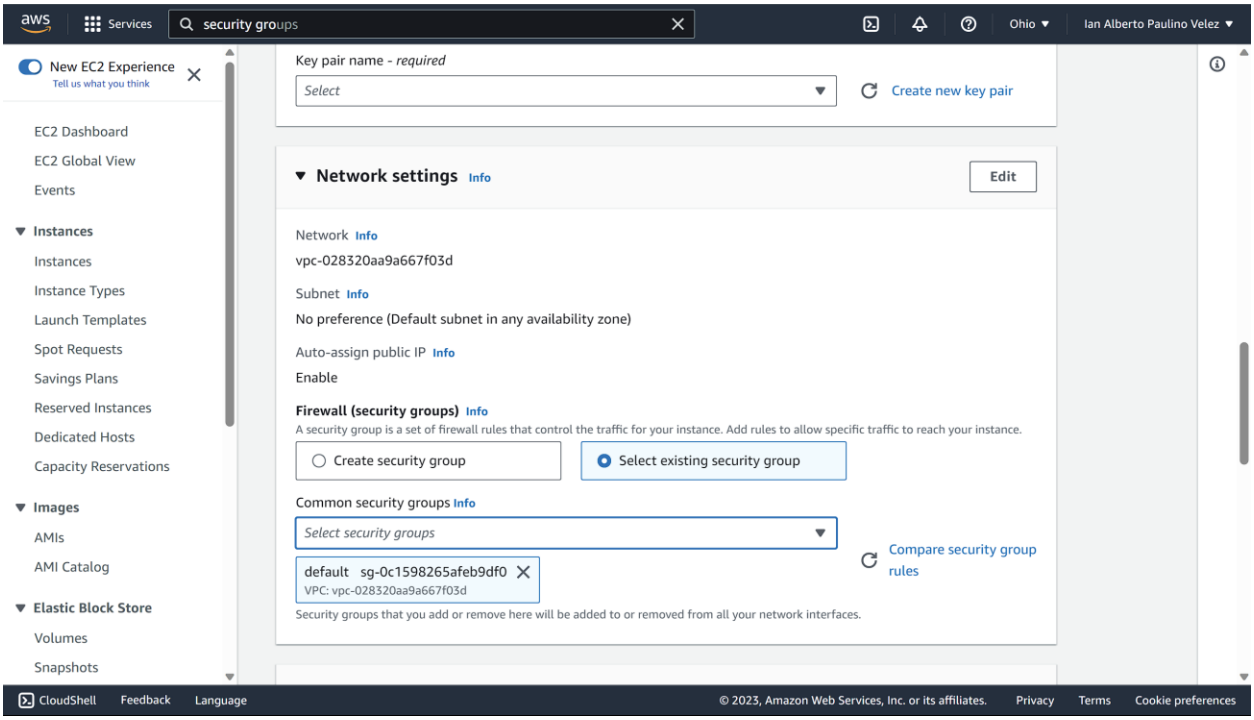
1. To deploy our model on Amazon Web Service cloud, I checked to see if a firewall rule for the port I will use had been created.



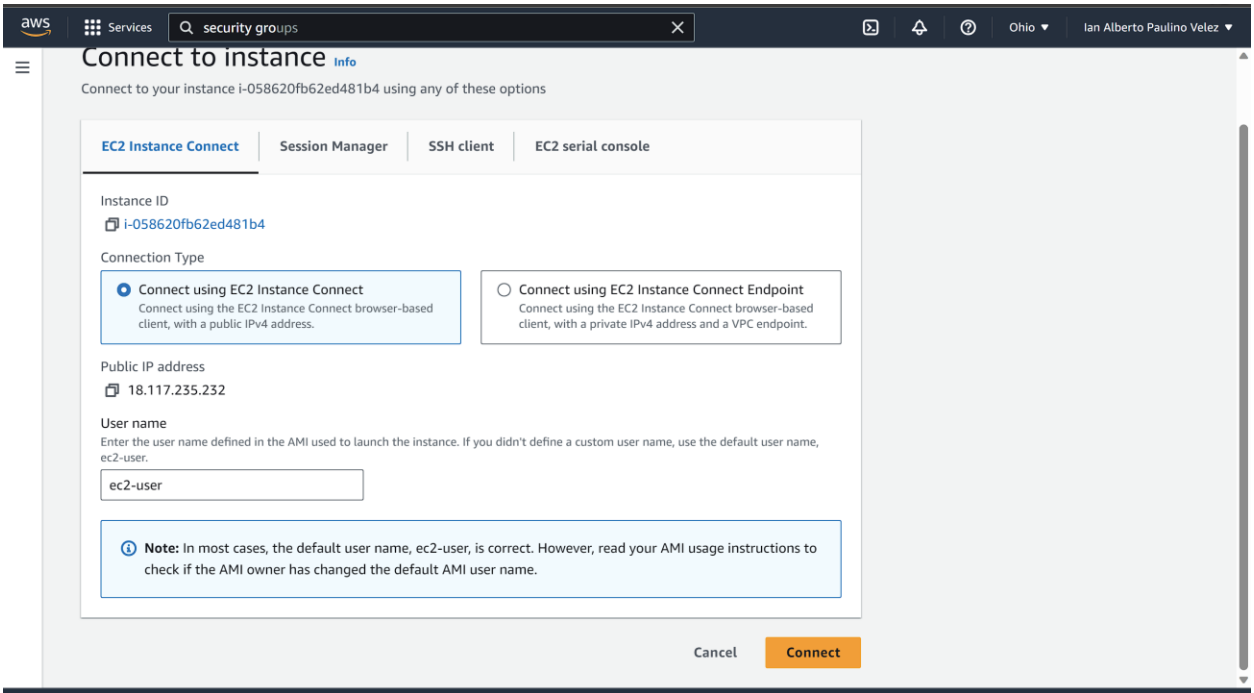
2. I created an EC2 Instance with the following name and OS.

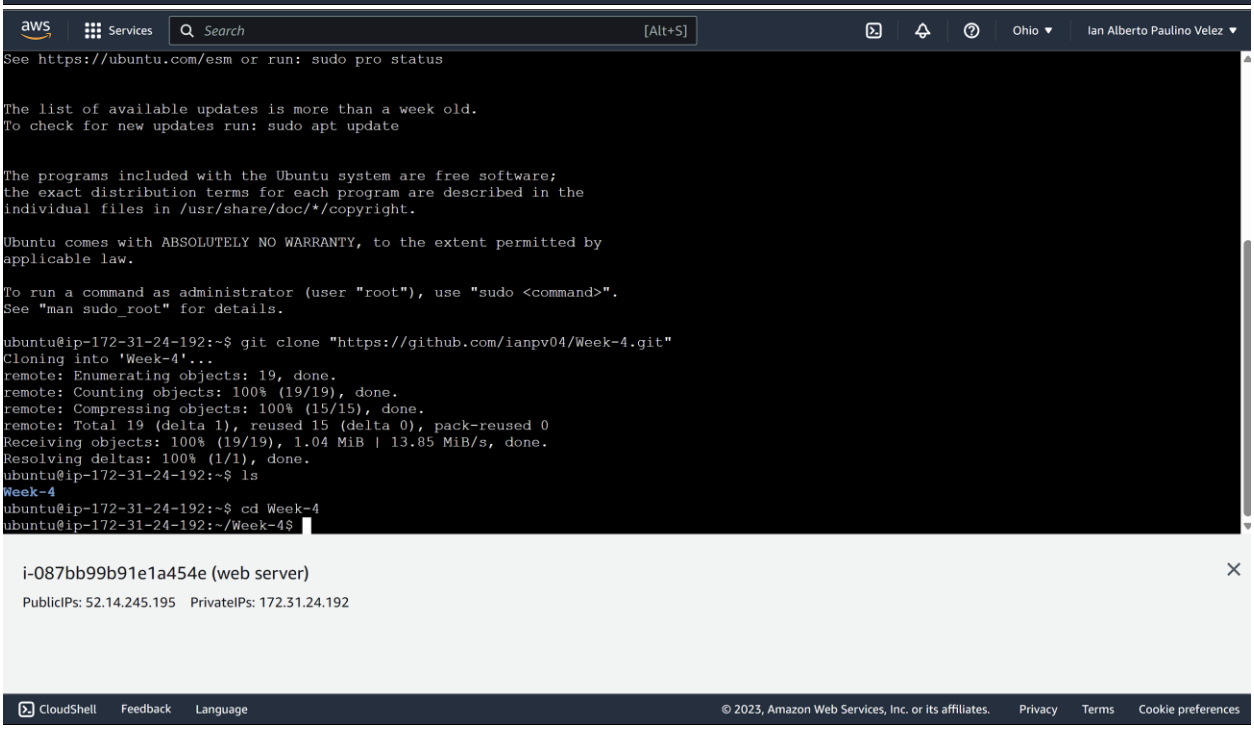


3. I selected the security group that will allow traffic to my instance and selected ‘launch instance’.



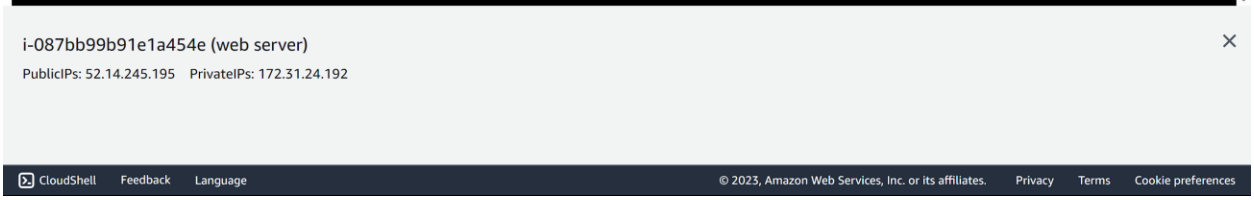
4. We will connect to the instance and upload all the files for our model.



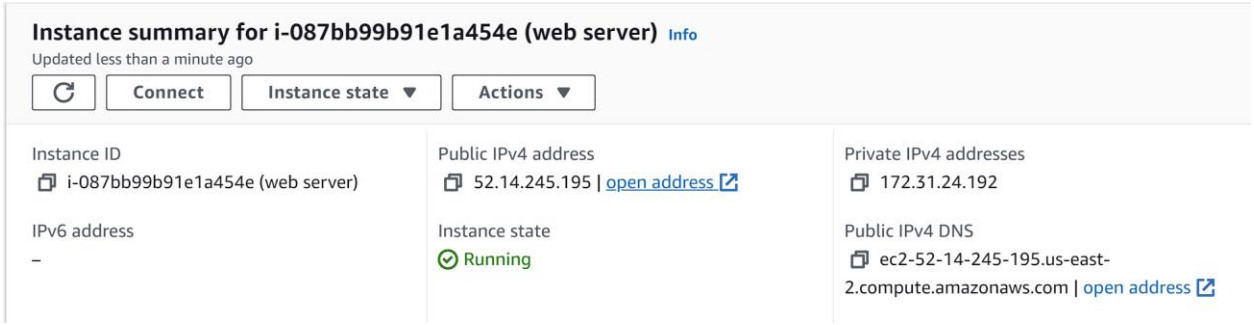


5. Next, we will install the required packages and run our program.

```
ubuntu@ip-172-31-24-192:~/Week-4$ python3 app.py
/home/ubuntu/.local/lib/python3.10/site-packages/sklearn/base.py:347: InconsistentVersionWarning: Trying to unpickle estimator LogisticRegre
ssion from version 1.2.1 when using version 1.3.0. This might lead to breaking code or invalid results. Use at your own risk. For more info
please refer to:
https://scikit-learn.org/stable/model_persistence.html#security-maintainability-limitations
  warnings.warn(
 * Serving Flask app 'app'
 * Debug mode: on
WARNING: This is a development server. Do not use it in a production deployment. Use a production WSGI server instead.
 * Running on http://127.0.0.1:5000
Press CTRL+C to quit
 * Restarting with stat
/home/ubuntu/.local/lib/python3.10/site-packages/sklearn/base.py:347: InconsistentVersionWarning: Trying to unpickle estimator LogisticRegre
ssion from version 1.2.1 when using version 1.3.0. This might lead to breaking code or invalid results. Use at your own risk. For more info
please refer to:
https://scikit-learn.org/stable/model_persistence.html#security-maintainability-limitations
  warnings.warn(
 * Debugger is active!
 * Debugger PIN: 695-445-550
```



6. Leave it running and check the external IPv4 Address



7. Access the page using this external IP and the port number defined on the Flask.run command on our API file.

```
28  if __name__ == "__main__":
29      app.run("0.0.0.0", port=5000, debug=True)
```