

Instructions for setting up EnlightenGAN

1. Login to aws.amazon.com and you will be directed to the AWS Management Console page.
2. On the AWS Management Console, on the top right-hand corner select the location as Oregon.
3. Go to Services on the top menu bar and click on EC2 from the Compute category.
4. Choose instances from the left-side menu to start the process of launching an EC2 instance. Note: We have provided an Amazon Image that contains the installation of EnlightenGAN. Therefore, the following steps are going to direct you to launch an instance with our created Amazon Image.
 - a. Go to Images on the left-side menu and click on AMIs.
 - b. In the search bar, change the option “Owned by me” to “Public images”.
 - c. Search using the AMI Name filter and type in “**EnlightenGAN**”. It will take some time to appear. You can also search using the AMI ID using “**ami-0f0d10adbb0077f16**”.
 - d. Click on Launch.
 - e. Choose an Instance Type: GPU instances – **p2.8xlarge** (3 GPUs)
 - f. Select Review and Launch
 - g. Click on Launch again.
 - h. From the prompted that popped, either choose an existing key pair that you have access to or create a new key pair to access your instance.
 - i. Follow the directions provided by AWS on how to connect to your machine using ssh. (Incase **ec2-user** doesn’t work then change it to **ubuntu** and the rest remains the same.)
5. On a new terminal on your laptop, transfer the input images to test_data/testA folder by:
scp -i “path-to-key-file” “path-to-input images” “ubuntu instance (e.g: ubuntu@<public ip address>:~/test_data/testA)”
6. On the instance navigate to EnlightenGAN folder.
7. Launch the virtual environment by:
source venvlighten/bin/activate
8. For Inference use:
python scripts/script.py --predict
9. Download the results of EnlightenGAN by running the following command on your laptop terminal.

```
scp -i "path-to-key-file" "ubuntu instance (e.g. ubuntu@<public ip  
address>:~/EnlightenGAN/ablation/enlightening/test_200/images/*  
"path-to-directory-to-download-enlightened images"
```