

I. Create GCE

Creates an 8xV100 instance with 4 nvme drives. Output of the command will provide the command to run to SSH to the machine.

```
python perfzero/lib/cloud_manager.py create --accelerator_count 8 --nvme_count 4
```

II. Build docker on GCE

After logging into the instance run the following command to create a docker instance with the latest nightly TF 2.0 build.

```
python3 perfzero/lib/setup.py --dockerfile_path=docker/Dockerfile_ubuntu_20.04_tf_v2
```

III. Start and "enter" the docker

```
nvidia-docker run -it --rm -v $(pwd):/workspace -v /data:/data perfzero/tensorflow bash
```

IV. Run tests

```
python3 /workspace/perfzero/lib/benchmark.py \  
--git_repos="https://github.com/tensorflow/models.git;benchmark" \  
--python_path=models \  
--data_downloads="gs://tf-perf-imagenet-uswest1/tensorflow/cifar10_data/cifar-10-batches-bin" \  
--  
benchmark_methods=official.benchmark.keras_cifar_benchmark.Resnet56KerasBenchmarkReal.benchmark_1_gpu  
_no_dist_strat
```

V. Delete the instance when done

```
python perfzero/lib/cloud_manager.py delete
```