

# **SMOKE TEST**

OpenVINO

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## Smoke Test Document OpenVINO



### **Document Information**

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### 1 LOGIN TO OPENVINO CONTAINER

Login to Jupyter Notebook, using the following steps:

1. From the Cluster page under INSTANCE IP column, get the CONTAINER IP



2. Login to OpenVINO container from the HPECP Controller host with instance IP using your tenant's PEM key,

```
[root@controller ~]#
[root@controller ~]# ssh -i KeyPairs/2.pem bluedata@172.18.0.18
Warning: Permanently added '172.18.0.18' (ECDSA) to the list of known hosts.
Last login: Tue May 19 03:42:23 2020 from 172.18.0.2
[bluedata@bluedata-28 ~]$
[bluedata@bluedata-28 ~]$
[bluedata@bluedata-28 ~]$
```

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#### 2 TESTING SQUEEZENET MODEL EXECUTION EXAMPLE

Run a sample application by executing below commands,

1. Set environment variables.

SOURCE /opt/intel/openvino/bin/setupvars.sh

2. Download public Squeezenet model

Go to

/opt/intel/openvino\_2020.2.120/deployment\_tools/open\_model\_zoo/tools/downloader folder

```
python3 downloader.py --name squeezenet1.1 --output_dir
~/openvino-models
```

3. Convert Squeezenet model to OpenVINO IR

4. Run sample application using Squeezenet IR

Go to

/opt/intel/openvino\_2020.2.120/deployment\_tools/inference\_engine/samples/python/classification sample async folder

```
python3 classification_sample_async.py -i
/opt/intel/openvino_2020.2.120/deployment_tools/demo/car.png -m
~/openvino-models/ir/public/squeezenet1.1/FP32/squeezenet1.1.xml
-d CPU
```

#### 2.1 Validate Squeezenet model execution

Below output is observed after OpenVINO cluster is created and sample squeezenet model is executed

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```
======= Replacing text in /root/openvino-models/public/squeezenet1.1/squeezenet1.1.prototxt
======= Converting squeezenet1.1 to IR (FP32)
Conversion command: /bin/pt/non3 - /opt/yintel/openvino/deployment_tools/model_optimizer/mo.py --framework-caffe --data_type=FP32 --output_dir=/root/openvino-models/ir/public/squeezenet1.1/FP32
--model_name-squeezenet1.1 '--input_shape=[1,3,227,227]' --input-data '--mean_values-data[164.0,117.0,123.0)' --output-prob --input_model=/root/openvino-models/public/squeezenet1.1/squeezenet1.1/squeezenet1.1/squeezenet1.1/squeezenet1.1/squeezenet1.1/squeezenet1.1/squeezenet1.1/squeezenet1.1/squeezenet1.1/squeezenet1.1/squeezenet1.1/squeezenet1.1/squeezenet1.1/squeezenet1.1/squeezenet1.1/squeezenet1.1/squeezenet1.1/squeezenet1.1/squeezenet1.1/squeezenet1.1/squeezenet1.1/squeezenet1.1/squeezenet1.1/squeezenet1.1/squeezenet1.1/squeezenet1.1/squeezenet1.1/squeezenet1.1/squeezenet1.1/squeezenet1.1/squeezenet1.1/squeezenet1.1/squeezenet1.1/squeezenet1.1/squeezenet1.1/squeezenet1.1/squeezenet1.1/squeezenet1.1/squeezenet1.1/squeezenet1.1/squeezenet1.1/squeezenet1.1/squeezenet1.1/squeezenet1.1/squeezenet1.1/squeezenet1.1/squeezenet1.1/squeezenet1.1/squeezenet1.1/squeezenet1.1/squeezenet1.1/squeezenet1.1/squeezenet1.1/squeezenet1.1/squeezenet1.1/squeezenet1.1/squeezenet1.1/squeezenet1.1/squeezenet1.1/squeezenet1.1/squeezenet1.1/squeezenet1.1/squeezenet1.1/squeezenet1.1/squeezenet1.1/squeezenet1.1/squeezenet1.1/squeezenet1.1/squeezenet1.1/squeezenet1.1/squeezenet1.1/squeezenet1.1/squeezenet1.1/squeezenet1.1/squeezenet1.1/squeezenet1.1/squeezenet1.1/squeezenet1.1/squeezenet1.1/squeezenet1.1/squeezenet1.1/squeezenet1.1/squeezenet1.1/squeezenet1.1/squeezenet1.1/squeezenet1.1/squeezenet1.1/squeezenet1.1/squeezenet1.1/squeezenet1.1/squeezenet1.1/squeezenet1.1/squeezenet1.1/squeezenet1.1/squeezenet1.1/squeezenet1.1/squeezenet1.1/squeezenet1.1/squeezenet1.1/squeezenet1.1/squeezenet1.1/squeezenet1.1/squeezenet1.1/squeezenet1.1/squeezenet1.1/squeezenet1.1/squeezenet1.1/squeezenet1.1/squeezenet1.1/squeeze
                           /opt/intel/openvino/deployment_tools/model_optimizer/mo/front/caffe/proto
                                  SUCCESS | Generated IR version 10 model.

SUCCESS | XML file: /root/openvino-models/ir/public/squeezenet1.1/FP32/squeezenet1.1.xml

SUCCESS | Bit file: /root/openvino-models/ir/public/squeezenet1.1/FP32/squeezenet1.1.bin

SUCCESS | Total execution time: 17.67 seconds.

SUCCESS | Memory consumed: 76 MB.
    INFO ] Creating Inference Engine
INFO ] Loading network files:
   /root/openvino-models/ir/public/squeezenet1.1/FP32/squeezenet1.1.xml
                          /root/openvino-models/ir/public/squeezenet1.1/FP32/squeezenet1.1.bin
     INFO ] Preparing input blobs
     INFO | Preparing input blobs
WARNING | Image /opt/intel/openvino/deployment_tools/demo/car.png is resized from (259, 787) to (227, 227)
INFO | Batch size is 1
INFO | Loading model to the plugin
INFO | Start inference (10 Asynchronous executions)
INFO | Completed 1 Async request execution
INFO | Completed 2 Async request execution
INFO | Completed 3 Async request execution
      INFO | Completed 3 Async request execution
                          Completed 4 Async request execution
Completed 5 Async request execution
Completed 6 Async request execution
      INFO ]
     INFO ]
                          Completed 7 Async request execution
Completed 8 Async request execution
Completed 9 Async request execution
      INFO 1
     INFO | Completed 8 Async request execution INFO | Completed 9 Async request execution INFO | Completed 10 Async request execution
     INFO ] Processing output blob
INFO ] Top 10 results:
Image /opt/intel/openvino/deployment_tools/demo/car.png
classid probability
      817
                              0.6851523
      479
                               0.1835010
      511
                           0.0918673
      436
                            0.0200784
      751
                            0.0069436
      656
                            0.0044373
      717
                            0.0024768
                            0.0017814
       581
      468
                            0.0013093
                            0.0007501
     661
[ INFO ] This sample is an API example, for any performance measurements please use the dedicated benchmark_app tool
====== postconfig.log ======
Beginning auth setup.
Fetching misc context info from EPIC...
Nothing to be done (no tenant member or admin groups specified).
```