

How to download the base image for building Custom Kubeflow Jupyter Notebook Image

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Issue

When you try to download the image using docker pull, you might face the below issue:

```
# nerdctl pull gcr.io/mapr-252711/kubeflow/notebooks/jupyter-scipy:ezaf-fy23-q4-sp4-r9
gcr.io/mapr-252711/kubeflow/notebooks/jupyter-scipy:ezaf-fy23-q4-sp4-r9: resolving
|-----|
elapsed: 1.7 s                                total:  0.0 B (0.0 B/s)
FATA[0001] failed to resolve reference "gcr.io/mapr-252711/kubeflow/notebooks/jupyter-scipy:ezaf-fy23-q4-sp4-r9": unes
```

Environment

Unified Analytics (EZUA)

Cause

kubelet fails to pull the image from the Google repository.

Resolution

You can use your secret to download the image. There is an image pull secret in every tenant namespace and also found in kubeflow namespace.

```
# kubectl get secrets -n rahul
```

NAME	TYPE	DATA	AGE
access-token	Opaque	3	2d13h
af-cluster-airflowui	Opaque	4	2d13h
client	Opaque	14	2d13h
hpe-imagepull-secrets	kubernetes.io/dockerconfigjson	1	2d13h
imagepull	kubernetes.io/dockerconfigjson	1	2d13h
ldapcert	Opaque	0	2d13hc

Now you can create a pod which will use this secret and can download/pull the required image.

```
apiVersion: v1
kind: Pod
metadata:
  name: private-reg
spec:
  containers:
    - name: private-reg-container
      image: gcr.io/mapr-252711/kubeflow/notebooks/jupyter-scipy:ezaf-fy23-q4-sp4-r9
  imagePullSecrets:
    - name: hpe-imagepull-secrets
```

Now you can use the image for building your custom Kubeflow Jupyter Notebook image.

