

# Push image to IBM Container-Registry

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|---------------------|-----------------|
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## Question:

### 1. Install IBM cloud container plug-ins

```
Windows PowerShell
PS C:\Users\RISHI> ibmcloud plugin show container-registry

Plugin Name           container-registry
Plugin Version        1.0.2
Plugin SDK Version     1.0.0
Minimal IBM Cloud CLI version required 0.4.2
Private endpoints supported true

Commands:
cr                               Manage IBM Cloud Container Registry content and configuration.
cr info                         Display information about the current IBM Cloud Container Registry command session.
cr namespace-add               Add a namespace to your account. You must set at least one namespace to store images in IBM Cloud Container Registry.
cr namespace-assign            Assign a currently unassigned namespace to the targeted resource group.
cr namespace-rm                Delete a namespace from your account, and also delete all images within that namespace.
cr namespace-list,namespaces  List namespaces for your account.
cr api                         Display IBM Cloud Container Registry API endpoint.
cr image-list,images           List your tagged images in IBM Cloud Container Registry.
cr image-digests,digests       List all your images in IBM Cloud Container Registry by digest.
cr image-prune-untagged        Delete all your untagged images in IBM Cloud Container Registry.
cr image-rm                    Delete one or more images from IBM Cloud Container Registry.
cr image-inspect               Inspect one or more images in IBM Cloud Container Registry.
cr manifest-inspect            Inspect an image manifest in IBM Cloud Container Registry.
cr image-tag                   Create a new tag, TARGET_IMAGE, that refers to a source image, SOURCE_IMAGE, in IBM Cloud Container Registry.
cr image-untag                 Remove tags from one or more images in IBM Cloud Container Registry.
cr login                       Log the local Docker or Podman client in to IBM Cloud Container Registry.
cr vulnerability-assessment,va Display detailed vulnerability assessment reports for one or more images in IBM Cloud Container Registry.
cr quota                       Display information about your IBM Cloud Container Registry quotas.
cr quota-set                   Set your storage and traffic quotas for IBM Cloud Container Registry.
cr plan                         Display information about your IBM Cloud Container Registry pricing plan.
cr plan-upgrade                Set your pricing plan for IBM Cloud Container Registry.
cr region                      Display the targeted region.
cr region-set                  Set a target region for the IBM Cloud Container Registry commands.
cr exemption-list,exemptions   List your exemptions for security issues.
cr exemption-add               Create an exemption for a security issue. You can create an exemption for a security issue that applies to different scope
s. The scope can be the account, namespace, repository, tag, or digest.
cr exemption-rm                Delete an exemption for a security issue. To view your existing exemptions, run 'ibmcloud cr exemption-list'.
cr exemption-types              Lists the types of security issues that you can exempt.
cr iam-policies-enable         If you are using IAM authentication, this command enables fine-grained authorization.
cr iam-policies-status          Display whether fine-grained authorization is enabled for your account.
cr retention-run                Retains a specified number of images for each repository within a namespace in IBM Cloud Container Registry. All other ima
ges in the namespace are deleted.
```

## 2. Create Namespace in your IBM cloud container-registry. Tag and push your image to container-registry using name space.

- Docker tag
- Docker push

```
Windows PowerShell
k8s.gcr.io/kube-apiserver          v1.25.2          97801f839490    7 weeks ago    128MB
k8s.gcr.io/kube-controller-manager v1.25.2          dbfceb93c69b    7 weeks ago    117MB
k8s.gcr.io/kube-scheduler          v1.25.2          ca0ea1ec3cfd    7 weeks ago    50.6MB
k8s.gcr.io/kube-proxy              v1.25.2          1c7d8c51823b    7 weeks ago    61.7MB
kubernetes/dashboard               v2.6.1          783e2b6d87ed    2 months ago   246MB
k8s.gcr.io/pause                   3.8             4873874c08ef    4 months ago   711kB
k8s.gcr.io/etcd                    3.5.4-0         a8a176a5d5d6    5 months ago   300MB
kubernetes/metrics-scraper         v1.0.8          115053965e86    5 months ago   43.8MB
k8s.gcr.io/coredns                 v1.9.3          5185b96f0bec    5 months ago   48.8MB
docker/getting-started             latest          cb90f98fd791    7 months ago   28.8MB
docker/desktop-vpnkit-controller   v2.0            8c2c38aa676e    18 months ago   21MB
docker/desktop-storage-provisioner v2.0            99f89471f470    18 months ago   41.9MB

PS C:\Users\RISHI> docker tag docker_with_flask_inventory jp.icr.io/do-fs/dcoker_with_flask_inventory
PS C:\Users\RISHI> docker push jp.icr.io/do-fs/docker_with_flask_inventory
Using default tag: latest
The push refers to repository [jp.icr.io/do-fs/docker_with_flask_inventory]
d39020a385be: Preparing
7143fba1c510: Preparing
f36426436017: Preparing
b9c0c0fe7120: Preparing
cf399be408ea: Preparing
793b971ccb99: Waiting
d172a9e6f9e6: Waiting
0c7daf9a72c8: Waiting
75ba02937496: Waiting
288cf3a46e32: Waiting
186da837555d: Waiting
955c9335e041: Waiting
8e079fee2186: Waiting
unauthorized: The login credentials are not valid, or your IBM Cloud account is not active.
PS C:\Users\RISHI> ibmcloud cr login
Logging 'docker' in to 'jp.icr.io'...
Logged in to 'jp.icr.io'.

OK
PS C:\Users\RISHI> docker tag docker_with_flask_inventory jp.icr.io/do-fs/dcoker_with_flask_inventory
PS C:\Users\RISHI> docker push jp.icr.io/do-fs/docker_with_flask_inventory:latest
The push refers to repository [jp.icr.io/do-fs/docker_with_flask_inventory]
d39020a385be: Pushed
7143fba1c510: Pushed
f36426436017: Pushed
b9c0c0fe7120: Pushed
cf399be408ea: Pushed
793b971ccb99: Pushed
d172a9e6f9e6: Pushing [=====>] 36.38MB/57.18MB
0c7daf9a72c8: Pushed
75ba02937496: Pushing [==>] 27.52MB/528.9MB
288cf3a46e32: Pushing [=====>] 21.43MB/152MB
186da837555d: Pushing [=====>] 11.96MB/18.95MB
955c9335e041: Pushed
8e079fee2186: Pushing [==>] 5.38MB/124.1MB
```

## 3. Verify that your image in container-registry

IBM Cloud

Container Registry

Quick start

Namespaces1

Repositories1

Images1

Trash0

Settings


Search resources and products...

CatalogManageRishi Ragul R's Account

Images

LocationTokyo

View by: DigestSearchCreate

| Repository@digest  | Tags   | Manifest type | Created   | Size   | Security status |
|--|--------|---------------|-----------|--------|-----------------|
|  do-fs/docker_with_flask_inventory@sha256:a6b2608ddd95... | latest | Docker        | 1 day ago | 357 MB | 23 issues       |

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