

Push image to IBM Container-Registry

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Question:

1. Install IBM cloud container plug-ins

```
Select Windows PowerShell
PS C:\Program Files\IBM\Cloud\bin> ibmcloud.exe plugin show container-...
+ CategoryInfo          : InvalidArgument: (:) [Set-Location], ParameterBindingException
+ FullyQualifiedErrorId : PositionalParameterNotFound,Microsoft.PowerShell.Commands.SetLocationCommand

PS C:\Users\sanja> 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 scopes. 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 images 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
Unauthorized: The login credentials are not valid, or your IBM Cloud account is not active.
PS C:\Users\sanja> ibmcloud cr login
Logging 'docker' in to 'jp.icr.io'...
FAILED
Failed to 'docker login' to 'jp.icr.io' with error: Error saving credentials: error storing credentials - err: exit status 1, out: 'getting entitlement: request to https://accounts-api.s.us-east-1.aws.dcr.io/v2/users/sanjay27112001/orgs/?page_size=2147483647 failed with status 403: {"message":"access is forbidden with a JWT issued from a personal access token","errinfo":{}}'

PS C:\Users\sanja> ibmcloud cr login
Logging 'docker' in to 'jp.icr.io'...
Logged in to 'jp.icr.io'.

OK
PS C:\Users\sanja> docker push jp.icr.io/do-fl/docker_with_form:latest
The push refers to repository [jp.icr.io/do-fl/docker_with_form]
708e448083b7: Pushing [=====] 7.168kB
2d116cd9a8cf: Pushing [=====] 8.339MB/11.6MB
f5307bc62862: Pushed
2f59fa15bea7: Pushed
cf39b9e408ea: Pushing [=====] 10.51MB/10.85MB
793b971ccb99: Waiting
d172a9e6f9e6: Waiting
0c7daf9a72c8: Waiting
75ba02937496: Waiting
288cf3a46e32: Waiting
186da837555d: Waiting
955c9335e041: Waiting
8e079fee2186: Waiting
```

3. Verify that your image in container-registry

The screenshot displays the IBM Cloud Container Registry interface. The left sidebar contains navigation links: 'Container Registry', 'Quick start', 'Namespaces' (1), 'Repositories' (1), 'Images' (1), 'Trash' (0), and 'Settings'. The main content area is titled 'Images' and shows a list of images. The 'Location' is set to 'Tokyo'. The 'View by' is set to 'Digest'. The table lists the following image:

Repository@digest	Tags	Manifest type	Created	Size	Security status
do-fl/docker_with_form@sha256:d936022da26d...	latest	Docker	1 hour ago	357 MB	23 issues

The bottom of the page shows a Windows taskbar with various application icons and a system tray indicating the time as 21:33 on 09-11-2022.