

## Abstract

Abode hosts its local registry in one of the local host machines within Zigron's premises, Task was to backup all repositories in that registry to our local Docker registry, so we can maintain its local copy within our systems.

## Operating environment & tools

Operating system : Ubuntu 16.04

Tool : Docker V18.09

## Design & Implementation

In order to have a local registry following steps are performed.

**Step 1:** pull "registry" (image) from docker hub.

**Step 2:** create a container from that registry image.

**Step 3:** Curl command used to fetch repositories name from json object.

```
$repo_name = curl https://ddocker-registry.goabode.com/v2/_catalog | jq -r  
'repositories[]'
```

**Step 4:** To fetch all tags for each repository.

```
curl https://ddocker-registry.goabode.com/v2/$rep_name/tags/list | jq -r '.tags[]'
```

**Step 5:** Pull all images from registry after fetching their repository name and respective tags.

```
docker pull ddocker-registry.goabode.com/$repo_name:$tag
```

**Step 6:** Tag each repository along with all respective tags in order to push them to Docker's local registry.

```
local_name="localhost:5000/${repo_with_tags[$count]}
```

```
docker tag ${rep_name[$count1]} $local_name
```

```
docker push $local_name
```

## Alternative backup

Other than the above mentioned steps to have a backup of registry zip all the images and store it in a zip file locally.

```
docker save -o backup.tar ddocker-registry.goabode.com/rep_name:tag
```

To load the compressed images

```
docker load -i backup.tar
```

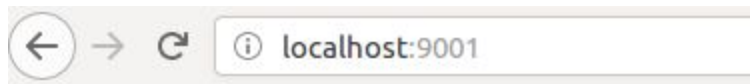
## Testing

In order assure images integrity follow steps are taken.

Image used : Docker-monitor

**Step 1:** containerize the image

**Step 2:** run it in our browser



## Express

Welcome to Express