

Network and Cloud Computing – Final Project

Project Setup:

1. Google Cloud Engine
2. Node JS
3. MongoDB (mlab.com) service for Google cloud

Steps taken to build project:

1. Created a basic node.js project to post ads for the users
2. Registered on mlab.com for a free 500MB mongo db connection. MLab provides service for google cloud deployments
3. Used the connection url for mongo db in the project
4. Run the project (node app.js) locally to check if project is working
5. Next steps are to deploy the project on cloud server

Steps for Cloud deployment

1. Create a project on Google Cloud Platform
2. Enable billing for your project
3. Create an instance for your project
4. Deploy the application on cloud
5. Make a note of your project ID. Use the project ID to access on browser

Creating a cloud bucket for storing images

```
pagare_pr@superb-heaven-155622:~$ gsutil mb gs://superb-heaven-155622
```

```
Creating gs://superb-heaven-155622/...
```

```
pagare_pr@superb-heaven-155622:~$ gsutil defacl set public-read gs://superb-heaven-155622
```

```
Setting default object ACL on gs://superb-heaven-155622/...pagare_pr@superb-heaven-155622:~$
```

Cloning the node project to Google cloud for deployment

```
pagare_pr@superb-heaven-155622:~$ git clone https://github.com/pagarepr/FinalProject\_Network-Cloud.git
```

```
Cloning into 'FinalProject_Network-Cloud'...remote:
```

```
Counting objects: 22, done.remote:
```

```
Compressing objects: 100% (19/19), done.remote:
```

```
Total 22 (delta 0), reused 0 (delta 0), pack-reused 0
```

```
Unpacking objects: 100% (22/22), done.
```

```
pagare_pr@superb-heaven-155622:~$ ls
```

```
FinalProject\_Network-Cloud README-cloudshell.txt
```

```
pagare_pr@superb-heaven-155622:~$ cd FinalProject_Network-Cloud
```

Deploying application on cloud

```
pagare_pr@superb-heaven-155622:~$ gcloud deploy app
```

Access the application using <https://superb-heaven-155622.appspot.com/ads>