

CLOUD AND API DEPLOYMENT

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Submission Date: 08/09/2023

Submitted to: Data Glacier

1. Initialize a new Heroku app:
 - a. Run `heroku create <app-name>` to create a new app on Heroku with a unique name
 - b. This prepares Heroku to receive this code and sets up basic app configuration
2. Initial code deployment:
 - c. Run `git push heroku main` to deploy the code to Heroku for the first time
 - d. This triggers a build, creates a slug/artifact, and releases it as v1
 - e. The app is now deployed and running on Heroku with the pushed code
3. View logs:
 - f. `heroku logs --tail` shows real-time streaming logs for debugging issues
 - g. Logs provide visibility into app status, errors, events etc.
4. Enable Heroku add-ons:
 - h. Heroku has add-ons like databases, monitoring tools etc.
 - i. `heroku labs:enable logplex` enables the logplex log aggregation system
 - j. Add-ons provide additional services and functionality
5. Deploy app updates:
 - k. Make code changes locally, commit and push to GitHub repo
 - l. Run `git push heroku main` again to deploy the updates
 - m. Heroku detects the push and starts a new build
6. New build:
 - n. Heroku bundles the pushed code into a new slug/artifact containing the app code
 - o. Slugs are immutable snapshots of the app code

7. Release:

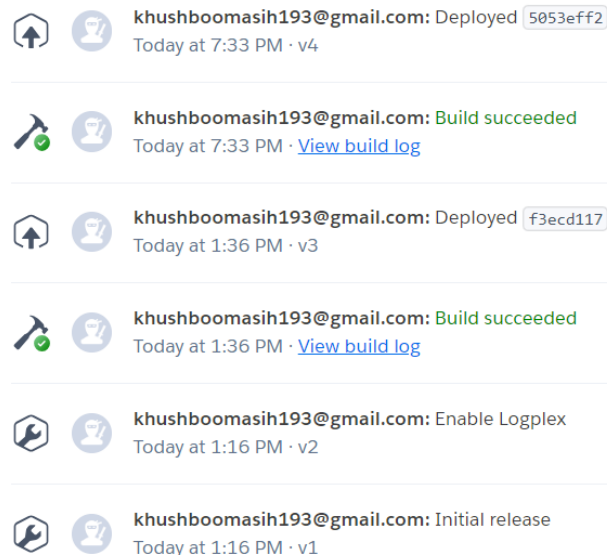
- p. The slug is released as a new version e.g. v3
- q. Each release is a unique immutable deployment of the app code

8. Verify build:

- r. Logs show the build status - look for "Build succeeded"
- s. Ensures the latest push was built and released successfully

```
PS C:\Users\Admin1\OneDrive\Desktop\Week-2-Assignment> cd C:\Users\Admin1\OneDrive\Desktop\iris
PS C:\Users\Admin1\OneDrive\Desktop\iris> heroku logs --tail --app iris-flower
2023-09-08T12:16:54.008820+00:00 app[api]: Release v1 created by user khushboomasih193@gmail.com
2023-09-08T12:16:54.008820+00:00 app[api]: Initial release by user khushboomasih193@gmail.com
2023-09-08T12:16:54.145038+00:00 app[api]: Enable Logplex by user khushboomasih193@gmail.com
2023-09-08T12:16:54.145038+00:00 app[api]: Release v2 created by user khushboomasih193@gmail.com
2023-09-08T12:36:10.000000+00:00 app[api]: Build started by user khushboomasih193@gmail.com
2023-09-08T12:36:46.251653+00:00 app[api]: Deploy f3ecd117 by user khushboomasih193@gmail.com
2023-09-08T12:36:46.251653+00:00 app[api]: Release v3 created by user khushboomasih193@gmail.com
2023-09-08T12:37:03.000000+00:00 app[api]: Build succeeded
```

V S code in terminal tail app iris-flower



The image shows the Heroku deployment history for the application 'iris-flower'. It lists six events in chronological order from bottom to top:

- khushboomasih193@gmail.com: Deployed** (5053eff2) - Today at 7:33 PM · v4
- khushboomasih193@gmail.com: Build succeeded** - Today at 7:33 PM · [View build log](#)
- khushboomasih193@gmail.com: Deployed** (f3ecd117) - Today at 1:36 PM · v3
- khushboomasih193@gmail.com: Build succeeded** - Today at 1:36 PM · [View build log](#)
- khushboomasih193@gmail.com: Enable Logplex** - Today at 1:16 PM · v2
- khushboomasih193@gmail.com: Initial release** - Today at 1:16 PM · v1

Heroku overall activity of deployment