

# Deployment

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# Options

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# PAAS vs docker

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## Platform as a service provider

- Heroku
- Google Cloud Platform
- AWS
- Azure

# Preparing The Code

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npm | helmet

- Package for security

npm | compression

- Compress the http response


Load these modules in production env only

# Getting Started with Heroku

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Signup Heroku.com


Install [heroku cli](#)

 **macOS**

[Download the installer](#)

Also available via Homebrew:

```
$ brew install heroku/brew/heroku
```

 **Windows**

Download the appropriate installer for your Windows installation:

[64-bit installer](#)

[32-bit installer](#)

# Run Heroku from cmd

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heroku -v

heroku login

# Prepare for Heroku in package.json

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```
"scripts": {  
  "start": "node promise.js"  
},  
"engines": {  
  "node": "8.12.0"  
},
```

# Add your project to github or bitbucket

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Add

- node\_modules
- coverage

To .gitignore

```
>git init
```

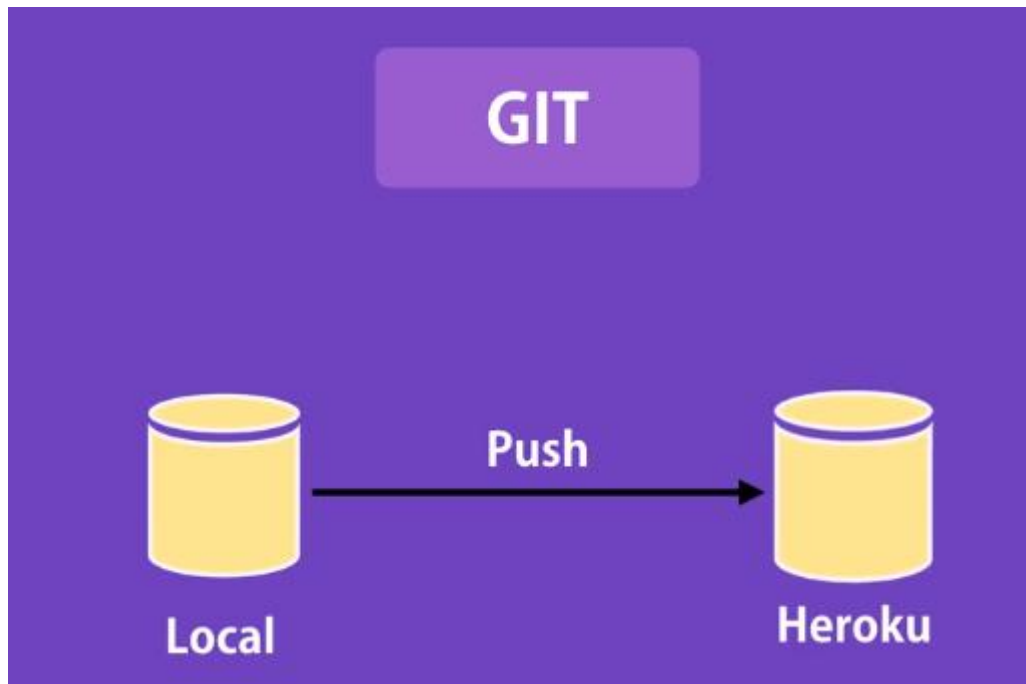
```
>git add .
```

```
>git commit -m "First Commit"
```



# Deploying to Heroku

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- >heroku create
- >git remote -v
- >git push heroku master

# Deploy This Code

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[https://1drv.ms/f/s!AtGKdbMmNBGd1CKBEDwqU\\_YSVnR0](https://1drv.ms/f/s!AtGKdbMmNBGd1CKBEDwqU_YSVnR0)

This Will Crash 😊 Why ?

# Heroku Logs

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## See logs in terminal

- heroku logs

## Clear logs

- heroku drains

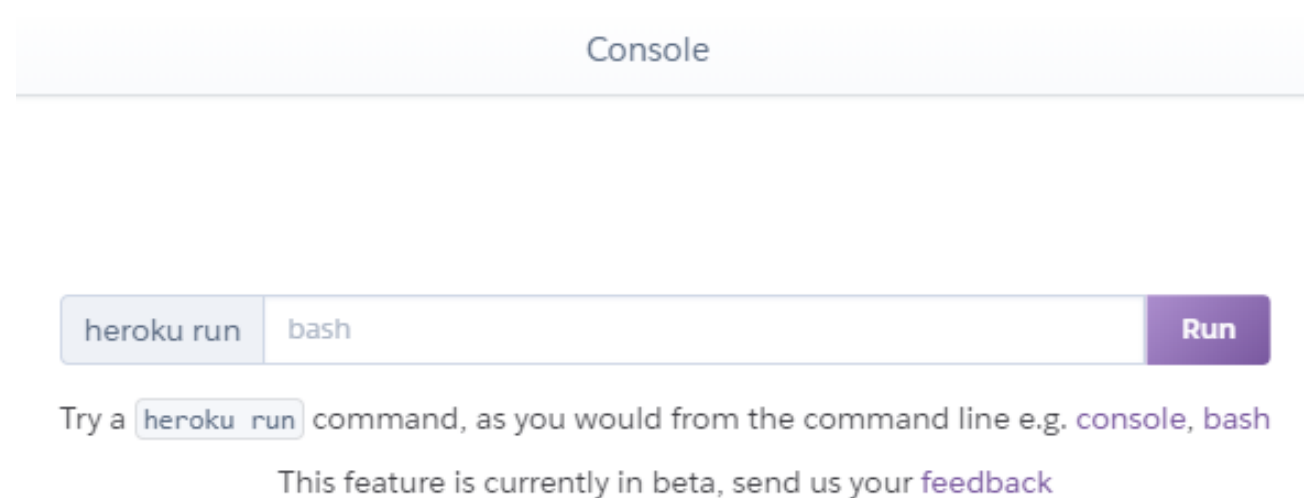
# Heroku Logs

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You can use heroku website to view logs too

But prefer command prompt

You can run heroku run bash to run command prompt from heroku site



# Setting Environment Variables

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```
heroku config:set jwtPrivateKey=herokuPrivateKey
```

```
heroku config:set NODE_ENV=production
```

```
heroku config
```

# Heroku Cloud

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By Default One Server called dyno

For scaling add more dynos

Each dyno has temp file system

Don't store things in file system like config variables

Always set environment variables as above

# Mongo DB On Cloud

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On Heroku Go to Application > Resources > Addon

<https://elements.heroku.com/addons/mongolab>

0\$/month but need a CC

<https://mlab.com> Create Account Here

# Mlab

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Create new DB on Azurus

Create User

Connection String

```
mongodb://<dbuser>:<dbpassword>@ds014658.mlab.com:  
14658/usman-vidly
```

Store dbuser and password in environment variable



# Set Environment Variables

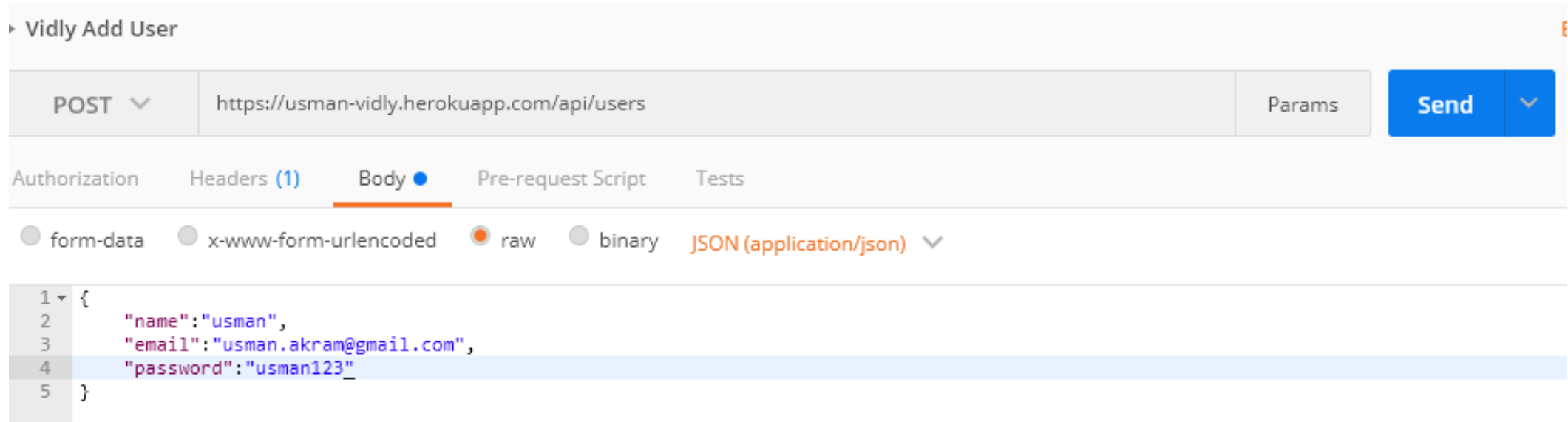
---

```
heroku config:set  
db_vidly=mongodb://usman:usman123@ds014658.mlab.com:14658/usman-vidly
```

Hurrah!!!

```
info: Connected to  
mongodb://usman:usman123@ds014658.mlab.com:14658  
/usman-vidly...
```

# Add User From postman



The screenshot shows the Postman interface for a POST request. The URL is `https://usman-vidly.herokuapp.com/api/users`. The request body is set to JSON (application/json) and contains the following JSON object:

```
1 {  
2   "name": "usman",  
3   "email": "usman.akram@gmail.com",  
4   "password": "usman123"  
5 }
```

```
{  
  "_id": "5c5491396759610016ff6986",  
  "name": "usman",  
  "email": "usman.akram@gmail.com"  
}
```

# Response has Auth token

Body Cookies **Headers (9)** Test Results Status: 200 OK Time: 8324 ms

**connection** → keep-alive

**content-length** → 81

**content-type** → application/json; charset=utf-8

**date** → Fri, 01 Feb 2019 18:34:33 GMT

**etag** → W/"51-UIR3tjsA4CJFSjyyY+cO5y9+srk"

**server** → Cowboy

**via** → 1.1 vegur

**x-auth-token**  
→ eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJfaWQiOiJ1YzU0OTZlOTY3NTk2MTAwMTZmZjY5ODYiLCJpYXQiOiE1NDkwNDYwNzN9.wi06yYxTUycGym3Jy64SRhwWspgf67\_i8RaN9y67DdY

**x-powered-by** → Express

# Add Genre(Add Token And Send Request)

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```
{
  "_id": "5c54930c6759610016ff6987",
  "name": "Thriller",  "__v": 0
}
```

POST ▼ https://usman-vidly.herokuapp.com/api/genres Params **Send** ▼ Save ▼

Authorization Headers (2) **Body** ● Pre-request Script Tests Code

	Key	Value	Description	...	Bulk Edit	Presets ▼
<input checked="" type="checkbox"/>	Content-Type	application/json				
<input checked="" type="checkbox"/>	x-auth-token	eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJfaWQiOiI1c54930c6759610016ff6987IiwiaWF0Ijoi15c54930c6759610016ff6987In0.eyJfaWQiOiI1c54930c6759610016ff6987IiwiaWF0Ijoi15c54930c6759610016ff6987In0.				

# Next Stop React

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OUR API IS COMPLETE