

# Cloud Development

Course02 - image-filter-starter-code

# Git repository

<https://github.com/aronanubhav/image-filter-starter-code.git>

## **Branches:**

master

dev

prod

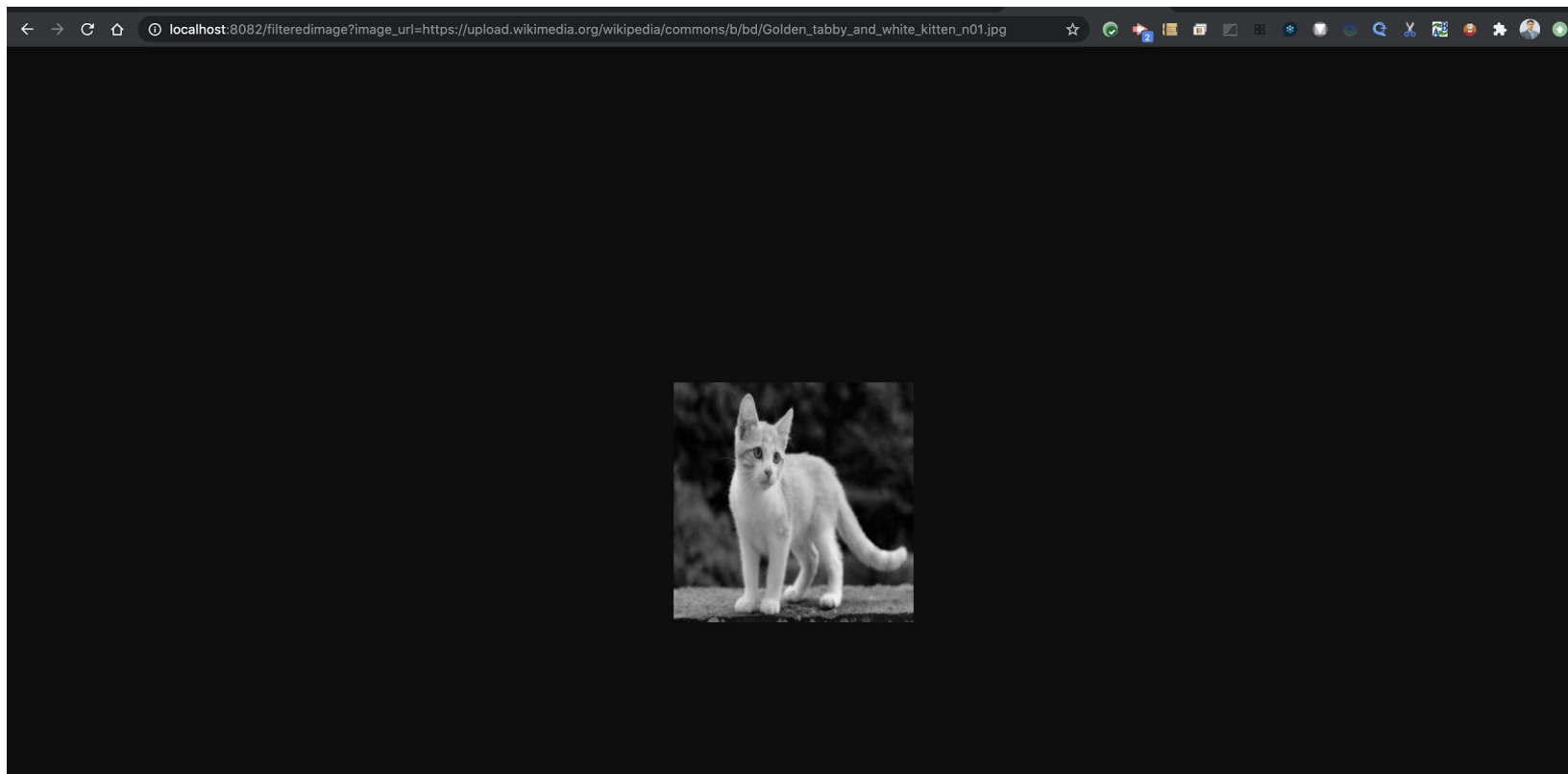
# Run local instance of server

```
The default interactive shell is now zsh.
To update your account to use zsh, please run `chsh -s /bin/zsh`.
For more details, please visit https://support.apple.com/kb/HT208050.
anubhavaron-macbookpro:course-02 anubhavaron$
anubhavaron-macbookpro:course-02 anubhavaron$ ls
exercises      project
anubhavaron-macbookpro:course-02 anubhavaron$ cd project
anubhavaron-macbookpro:project anubhavaron$ ls
image-filter-starter-code
anubhavaron-macbookpro:project anubhavaron$ cd image-filter-starter-code
anubhavaron-macbookpro:image-filter-starter-code anubhavaron$ ls
README.md      node_modules      src
cloud-cdnd-c2-final.postman_collection.json  package-lock.json tsconfig.json
deployment_screenshots  package.json       tslint.json
anubhavaron-macbookpro:image-filter-starter-code anubhavaron$ npm run dev

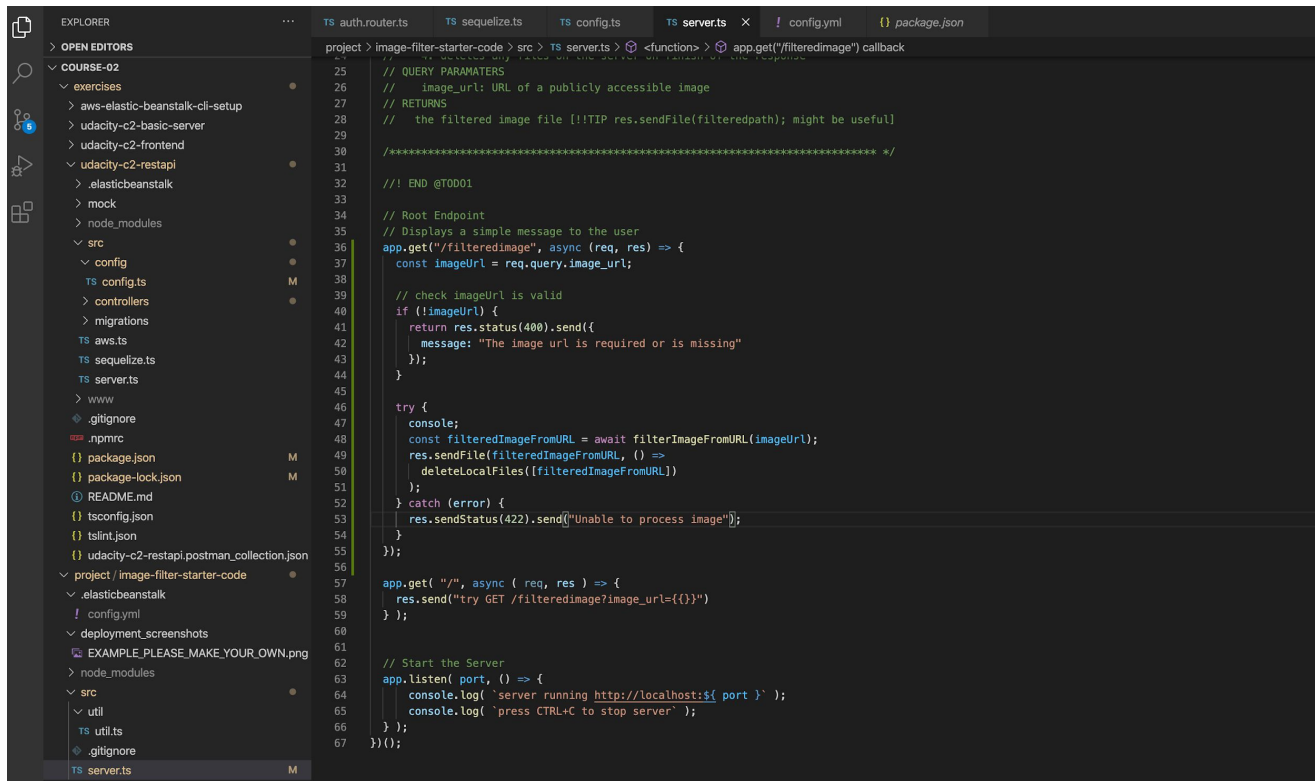
> udacity-c2-image-filter@1.0.0 dev /Users/anubhavaron/Documents/GitHub/cloud-developer/course-02/project/image-filter-starter-code
> ts-node-dev --respawn --transpileOnly ./src/server.ts

Using ts-node version 8.3.0, typescript version 3.5.3
server running http://localhost:8082
press CTRL+C to stop server
█
```

# Output of sample image on localhost



# TODO: server.ts



```
project > image-filter-starter-code > src > TS servers > <function> > app.get("/filteredimage") callback
// QUERY PARAMETERS
// image_url: URL of a publicly accessible image
// RETURNS
// the filtered image file [!!TIP res.sendFile(filteredpath); might be useful]

/*****
//! END @TOD01

// Root Endpoint
// Displays a simple message to the user
app.get("/filteredimage", async (req, res) => {
  const imageUrl = req.query.image_url;

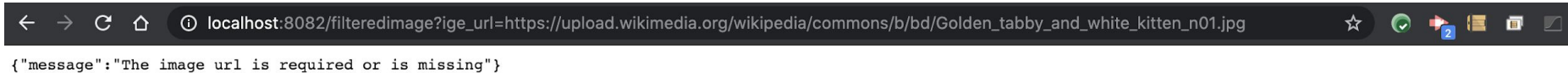
  // check imageUrl is valid
  if (!imageUrl) {
    return res.status(400).send({
      message: "The image url is required or is missing"
    });
  }

  try {
    console.log('filterImageFromURL', imageUrl);
    const filteredImageFromURL = await filterImageFromURL(imageUrl);
    res.sendFile(filteredImageFromURL, () => {
      deleteLocalFiles([filteredImageFromURL])
    });
  } catch (error) {
    res.sendStatus(422).send("Unable to process image");
  }
});

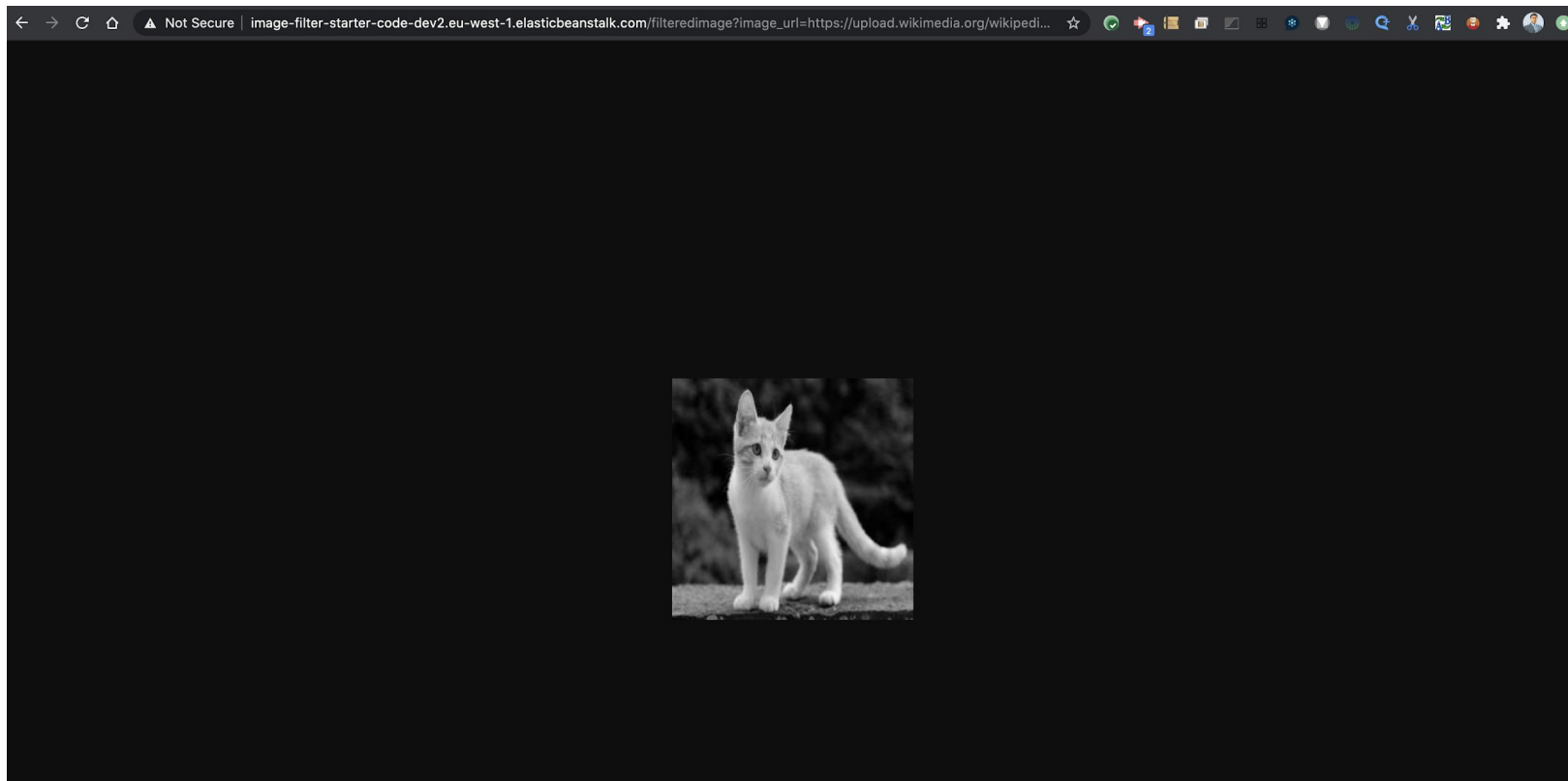
app.get( "/", async ( req, res ) => {
  res.send("try GET /filteredimage?image_url={}")
});

// Start the Server
app.listen( port, () => {
  console.log( `server running http://localhost:${port}` );
  console.log( `press CTRL+C to stop server` );
});
}
```


# Missing Image URL (400)



# Deployment using endpoint URL




# eb Screenshots (1/3)

 Services

Resource Groups

★

 aronanubhav Ireland Support

Elastic Beanstalk

Environments

Applications

image-filter-starter-code

Application versions

Saved configurations

image-filter-starter-code-dev

Go to environment

Configuration

Logs

Health

Monitoring

Alarms

Managed updates

Events

Tags

Recent environments

image-filter-starter-code-dev

udagramarondev-dev3

udagramarondev1

udagramarondev-dev

Elastic Beanstalk > Environments > image-filter-starter-code-dev


Traffic-splitting deployments: Simplify your production deployments and add canary testing. [Learn more](#)

image-filter-starter-code-dev

[image-filter-starter-code-dev2.eu-west-1.elasticbeanstalk.com](#) (e-czpfyapnj2)

Application name: [image-filter-starter-code](#)

Health

  
Ok  


Causes

Running version

app-200915\_015531

Upload and deploy

Platform

  
Node.js 12 running on 64bit  
Amazon Linux 2/5.2.1  

Change

Recent events

Show all

< 1 >

Time	Type	Details
2020-09-15 01:56:01 UTC+0100	WARN	Environment health has transitioned from Degraded to Severe. 100.0 % of the requests are failing with HTTP 5xx. ELB processes are not healthy on all instances. ELB health is failing or not available for all instances. Impaired services on all instances.
2020-09-15 01:55:57 UTC+0100	INFO	Environment update completed successfully.
2020-09-15 01:55:57 UTC+0100	INFO	New application version was deployed to running EC2 instances.



# eb Screenshots (2/3)

```
Creating application version archive "app-200915_014011".
Uploading: [#####] 100% Done...
Environment details for: image-filter-starter-code-dev
  Application name: image-filter-starter-code
  Region: eu-west-1
  Deployed Version: app-200915_014011
  Environment ID: e-czpfyapnj2
  Platform: arn:aws:elasticbeanstalk:eu-west-1::platform/Node.js 12 running on 64bit Amazon Linux 2/5.2.1
  Tier: WebServer-Standard-1.0
  CNAME: image-filter-starter-code-dev2.eu-west-1.elasticbeanstalk.com
  Updated: 2020-09-15 00:40:33.249000+00:00
Printing Status:
2020-09-15 00:40:31 INFO createEnvironment is starting.
2020-09-15 00:40:33 INFO Using elasticbeanstalk-eu-west-1-938874790629 as Amazon S3 storage bucket for environment data.
2020-09-15 00:40:53 INFO Created target group named: arn:aws:elasticloadbalancing:eu-west-1:938874790629:targetgroup/awseb-AWSEB-1AL74BPYJU8XE/f806c52cb052efec
2020-09-15 00:40:53 INFO Created security group named: sg-076613dab3dcd0a4d
2020-09-15 00:41:09 INFO Created security group named: awseb-e-czpfyapnj2-stack-AWSEBSecurityGroup-TA52BRNPUXW0
2020-09-15 00:41:09 INFO Created Auto Scaling launch configuration named: awseb-e-czpfyapnj2-stack-AWSEBAutoScalingLaunchConfiguration-5N210WCR8321
2020-09-15 00:42:10 INFO Created Auto Scaling group named: awseb-e-czpfyapnj2-stack-AWSEBAutoScalingGroup-IAXXIU0IXNJW
2020-09-15 00:42:10 INFO Waiting for EC2 instances to launch. This may take a few minutes.
2020-09-15 00:42:10 INFO Created Auto Scaling group policy named: arn:aws:autoscaling:eu-west-1:938874790629:scalingPolicy:cb949863-16d8-4741-aa20-17423904bff4:autoScalingGroupNa
me/awseb-e-czpfyapnj2-stack-AWSEBAutoScalingGroup-IAXXIU0IXNJW:policyName/awseb-e-czpfyapnj2-stack-AWSEBAutoScalingScaleDownPolicy-11W3LJ5CTUWYS
2020-09-15 00:42:10 INFO Created Auto Scaling group policy named: arn:aws:autoscaling:eu-west-1:938874790629:scalingPolicy:998ea4f4-2375-47ed-bba2-1bee46252b4c:autoScalingGroupNa
me/awseb-e-czpfyapnj2-stack-AWSEBAutoScalingGroup-IAXXIU0IXNJW:policyName/awseb-e-czpfyapnj2-stack-AWSEBAutoScalingScaleUpPolicy-H5FMMRMK5GEE
2020-09-15 00:42:10 INFO Created CloudWatch alarm named: awseb-e-czpfyapnj2-stack-AWSEBCloudwatchAlarmLow-Q1ZK7Y3GM6K2
2020-09-15 00:42:10 INFO Created CloudWatch alarm named: awseb-e-czpfyapnj2-stack-AWSEBCloudwatchAlarmHigh-EWL74COT4MFU
2020-09-15 00:42:58 INFO Created load balancer named: arn:aws:elasticloadbalancing:eu-west-1:938874790629:loadbalancer/app/awseb-AWSEB-1CYZLXI864RR1/0854395f02df126f
2020-09-15 00:42:58 INFO Created Load Balancer listener named: arn:aws:elasticloadbalancing:eu-west-1:938874790629:listener/app/awseb-AWSEB-1CYZLXI864RR1/0854395f02df126f/0c55f92
01c65e0a6
2020-09-15 00:43:18 INFO Instance deployment: You didn't specify a Node.js version in the 'package.json' file in your source bundle. The deployment didn't install a specific Node
.js version.
2020-09-15 00:43:20 INFO Instance deployment completed successfully.
  -- Events -- (safe to Ctrl+C)

2020-09-15 00:44:26 INFO Successfully launched environment: image-filter-starter-code-dev

Alert: An update to the EB CLI is available. Run "pip install --upgrade awsebcli" to get the latest version.
anubhavaron-macbookpro:image-filter-starter-code anubhavaron$
anubhavaron-macbookpro:image-filter-starter-code anubhavaron$
anubhavaron-macbookpro:image-filter-starter-code anubhavaron$
```

# eb Screenshots (3/3)

```
anubhavaron-macbookpro:image-filter-starter-code anubhavaron$  
anubhavaron-macbookpro:image-filter-starter-code anubhavaron$ eb deploy  
Uploading image-filter-starter-code/app-200915_015531.zip to S3. This may take a while.  
Upload Complete.  
2020-09-15 00:55:32 INFO Environment update is starting.  
2020-09-15 00:55:35 INFO Deploying new version to instance(s).  
2020-09-15 00:55:38 INFO Instance deployment: You didn't specify a Node.js version in the 'package.json' file in your source bundle. The deployment didn't install a specific Node.js version.  
2020-09-15 00:55:51 INFO Instance deployment completed successfully.  
2020-09-15 00:55:57 INFO New application version was deployed to running EC2 instances.  
2020-09-15 00:55:57 INFO Environment update completed successfully.  
  
Alert: An update to the EB CLI is available. Run "pip install --upgrade awsebcli" to get the latest version.  
anubhavaron-macbookpro:image-filter-starter-code anubhavaron$
```