

# Express Gateway: Tips

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Posted by Alejandro G. Carlstein Ramos Mejia on June 21, 2018 June 21, 2018 About Programming / JavaScript / NodeJS

## Configuration: Order of Policies Matter

When working on Auth0, make sure that the order in which you set the pipelines' policies matches the order in which the policies are listed:  
(gateway.config.yaml)



## Metrics: Use epimetheus or prom-client Package

You can use either prom-client or epimetheus.

Personally, I found easier to use the epimetheus package in Gateway Express:

```
'use strict';

const epimetheus = require('epimetheus');

module.exports = function (gatewayExpressApp) {
  epimetheus.instrument(gatewayExpressApp, {url: '/metrics'});
};
```

Something to considered is that some of the metrics display by epimetheus and prom-client differ.

For example, with epimetheus the http request duration are in milliseconds:

```
http_request_duration_milliseconds{quantile="0.01",method="get",path="/api/",cardinality="one",status="200"}
1
```

while in prom-client, the http request duration are in seconds:

```
http_request_duration_seconds_bucket{service="api",instance="api-3432dc43c4-h3eeg",le="0.005",path="/metrics",method="GET",apiVersion="1.0.0",status="200"} 466081
```

## Swagger

Express Gateway use express. I tried different swagger packages; however, the closest results was to display all the endpoints from the admin side of Express Gateway.

Then, I decided to check the code implemented in the restify-swagger-jsdoc and it did the trick. Here is the modified code:

```

'use strict';

const swaggerJSDoc = require("swagger-jsdoc");
const path = require("path");
const fs = require("fs");
const mime = require("mime-types");
const swaggerUiPath = path.dirname(require.resolve('swagger-ui'));
const publicPath = '/api'.replace(/\/+$/, '');

const swaggerSpec = swaggerJSDoc({
  swaggerDefinition: {
    info: {
      title: 'API documentation',
      version: '0.0.1',
      description: 'API documentation'
    },
    host: undefined,
    basePath: '/',
    schemes: undefined,
    tags: []
  },
  apis: [
    '../**/routes/*.js'
  ]
});

module.exports = function (gatewayExpressApp) {

  gatewayExpressApp.get(`${publicPath}/swagger.json`, (req, res) => {
    res.setHeader('Content-type', 'application/json');
    res.send(swaggerSpec);
  });

  gatewayExpressApp.get(new RegExp(publicPath + '\\/?$'), (req, res) => {
    res.setHeader('Location', `${publicPath}/index.html`);
    res.sendStatus(302);
  });

  gatewayExpressApp.get(new RegExp(publicPath + '\\/(.*)$'), (req, res) => {
    fs.readFile(path.resolve(swaggerUiPath, req.params[0]), (err, content) => {
      if (err) {
        res.sendStatus(500);
        res.send(`File ${req.params[0]} does not exist`);
        res.end();
        return;
      }
      if (req.params[0] === 'index.html') {
        let jsonFileUrl = `${req.secure ? 'https' : 'http'}://${req.headers.host}${publicPath}/swagger.json`;
        content = new Buffer(content.toString().replace('url = http://petstore.swagger.io/v2/swagger.json', `url = "${jsonFileUrl}"`));
      }
      const contentType = mime.lookup(req.params[0]);
      if (contentType !== false) {
        res.setHeader('Content-Type', contentType);
      }
      res.write(content);
      res.end();
    });
  });
};

```

};

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