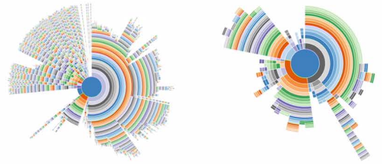
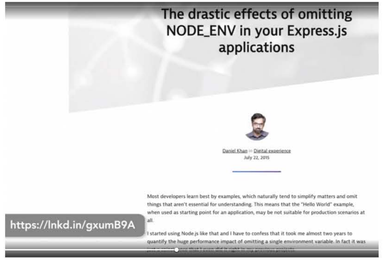
Tuning Express Performance

Set NODE_ENV to production



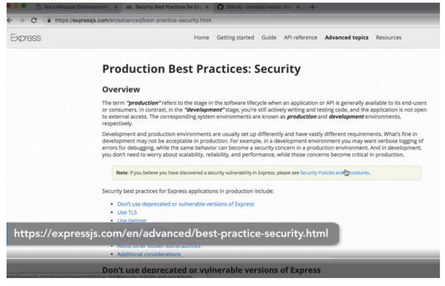
NODE_ENV=development NODE_ENV=production



Compress Server Responses

```
// npm install –save compression
const compression = require('compression');
const express = require('express');
const app = express();
app.use(compression());
```

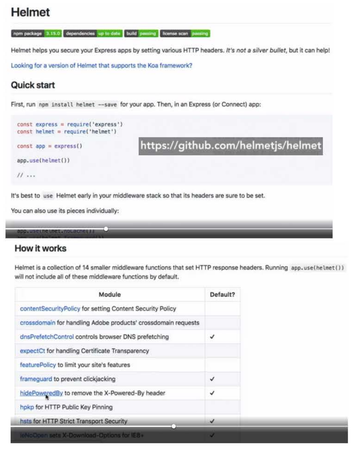
Server —gzip/deflate→ Browser

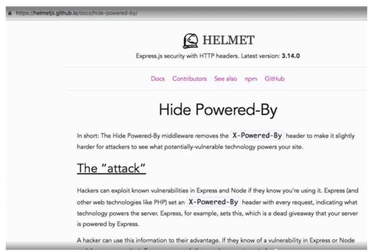


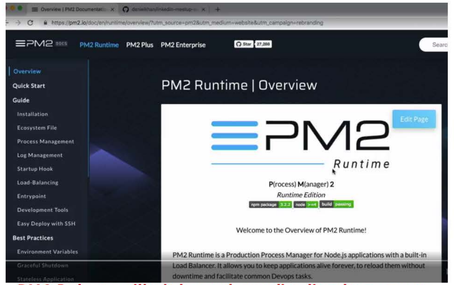

```
car-booth-20-mac:meetup danielkhan$ npm audit

                       === npm audit security report ===

# found 0 vulnerabilities
```

Further Recommendations

- Cache request results
- Don't use synchronous functions
- Don't use console.log() because it's synchronous
- Handle errors and exceptions properly
- Use a cluster







PM2 Rely on github to push application to a server

```
},
deploy: {
  production: {
    user: 'nodejs',
    host: 'meetup.demo.khan.io',
    ref: 'origin/master',
    repo: 'https://github.com/danielkhan/linkedin-meetup-sample',
    path: '/home/nodejs/deploy',
    'post-deploy': 'cp ../.env ./ && npm install && pm2 startOrRestart ecosystem.con
  },
},
```

runninng in http

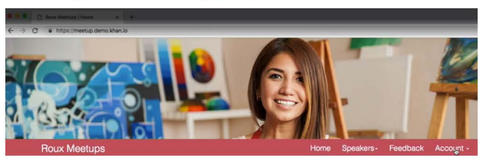
Best practice for Prod: run node application behing web proxy such as NGINX - better to manage SSL and TLS

Prod Web Server: NGINX

Provide free ssl self-signed certificate to server

Proxy configuration on, nginx

```
if (app.get('env') === 'production') {
  app.set('trust proxy', 'loopback');
  app.use(session({
    secret: 'another very secret 12345',
    name: 'sessionId',
    proxy: true,
    cookie: { secure: true },
    resave: true,
    saveUninitialized: false,
    store: new MongoStore({ mongooseConnection: mongoose.connection }),
  })});
} else {
```

```
car-booth-20-mac:meetup danielkhan$ pm2 update
car-booth-20-mac:meetup danielkhan$ pm2 deploy production
```

running in https behing proxy