Build Optimization:

**Reference Blog Link:** https://medium.com/@subodhkumarjc/angular-build-optimization-part-2-compression-b866dd0593c3

**Step1:**  Installed the custom-webpack version 6

**Command**: npm i @angular-builders/custom-webpack

**Step2:** Installed the typescript version as per the project version(Installed typescript version 3.2)

**Step3**: Created a custom-webpack.config.js file under root folder

**Step4:** Replace @angular-devkit/build-angular:browser with @angular-builders/custom-webpack:browser

**Step5:** Add the following code under options object

“customWebpackConfig” :{

“path”:”./custom-webpack.config.js”

}

**Step6:**  Install compression webpack blugin

**Command:** npm install compression-webpack-plugin

**Step7:**  Install Brotli-webpack plugin

**Command:** *npm i -D compression-webpack-plugin brotli-webpack-plugin*

**Step8:** Replace the custom-webpack.config.js with following code

|  |
| --- |
| const CompressionPlugin = require(`compression-webpack-plugin`); |
|  | const BrotliPlugin = require(`brotli-webpack-plugin`); |
|  | const path = require(`path`); |
|  | module.exports = { |
|  | plugins:[ |
|  | new BrotliPlugin({ |
|  | asset: '[fileWithoutExt].[ext].br', |
|  | test: /\.(js|css|html|svg|txt|eot|otf|ttf|gif)$/ |
|  | }), |
|  | new CompressionPlugin({ |
|  | test: /\.(js|css|html|svg|txt|eot|otf|ttf|gif)$/, |
|  | filename(info){ |
|  | let opFile= info.path.split('.'), |
|  | opFileType = opFile.pop(), |
|  | opFileName = opFile.join('.'); |
|  | return `${opFileName}.${opFileType}.gzip`; |
|  | } |
|  | }) |
|  | ], |
|  | } |

**Step9:**  Then run npm run buildProd

**Deployment in IIS:**

**Step1:** First run command npm run buildProd

**Step2:** Created a file in C drive with name ‘briskLearningProdBuild’ and added the all dist files

**Step3:** Created a app-pool and given the no managed code in application Pools

**Step4:** Created a site with namenew website select the created app pool and provide the application path of this application ‘briskLearningProdBuild’ and given the port number as 8085

**Step5:**  A website with name “newWebStie ” will be created

**Step6:** Right clik on site go to manage website then browse.

The application will open in default browser