

Installing Software

Hardware, Network, OS Requirements

Production Environments

- 32Gbs minimum of RAM recommended
- Minimum free on hard drive depending of the requirements of the project

Development and Testing Environments

- 8Gbs minimum of RAM recommended
- 16Gb minimum free on hard drive recommended

Browser Compatibility

Aspire Admin UI does not support Internet Explorer 9 and 8. For more information please refer to the [Microsoft Support Lifecycle](#)

Hardware

For most production implementations, we recommend:

- **CPU:** A 4-core server running 64-bit Linux or Windows
- **RAM:** Minimum of 8Gbs of RAM (**32Gbs recommended for production**)
- **Disk:** Minimum of **16Gb for development and testing environments**
 - We don't recommend the minimal disk space for production environments



This value does not include logs or data generated due to crawls or other component activity.

- **Network:** A connection speed of **100Mbps minimum and preferred 1Gbps or 10Gbps**

Third Party Software

The Enterprise Search makes use of a number of pieces of third party software.

For Execution:

- [NodeJS](#)
- [Elasticsearch](#)

For Development include:

- [Git](#)

Install NodeJS

1. Download and install version LTS of **NodeJS** from <https://nodejs.org/en/download/>.
 - a. The Enterprise Search has been develop with **NodeJS 12 LTS**
 - b. And tested with version **14 LTS** (*latest when the creation of this page*)
2. Once installed, ensure that the **Node.JS** executables are available in the path.

Download Elasticsearch

- Download and execute Elasticsearch following the instructions from <https://www.elastic.co/downloads/elasticsearch>

Install Git

- Follow official documentation for Git installation <https://git-scm.com/book/en/v2/Getting-Started-Installing-Git>

- [Hardware, Network, OS Requirements](#)
 - [Production Environments](#)
 - [Development and Testing Environments](#)
 - [Browser Compatibility](#)
 - [Hardware](#)
- [Third Party Software](#)
 - [Install NodeJS](#)
 - [Download Elasticsearch](#)
 - [Install Git](#)

- [Downloading The Code](#)

Enterprise Search is available as the source code directly a production bundle can be build, but we don't provide one, since it is almost certain that every distribution will have a certain level of customization (at code level), and the production bundle doesn't allow that, but you can build a production bundle once you have your custom instance ready.

- [Building the Enterprise Search](#)
 - [For development](#)
 - [For production](#)



To have access to the code of the Enterprise Search, Git must be installed, if you haven't done it yet, please refer to [Prerequisites - Install Git](#)

Downloading The Code

To download the code follow the steps:

1. Clone the code the repository for the Enterprise Search

```
git clone https://source.digital.accenture.com/projects/ST/repos/search-stack
```

2. Enter the folder of the repository just cloned



The default branch is **master**, if you want to submit code, please create a branch or do a pull request to **develop**

3. Initialize the submodules

```
git submodule update --init --recursive
```

4. Install the server dependencies

```
npm install
```



In MacOS there is a know issue when executing npm install

```
gyp: No Xcode or CLT version detected!
```

to solve this issue please follow the instructions from this [link](#)

5. Install the user interface dependencies

```
cd ui
npm install
```

Building the Enterprise Search

Most of the code in Enterprise Search is interpreted, only the user interface code needs to be compiled, for this we got 2 options:

For development

The command below will build the use interface and create a folder **dist**, which is the actual code the server will for the ui, this code will be human readable making it ideal for debugging process. but slow for loading

```
npm run build:dev
```



In version 3.0.0 the command is

```
npm run build-dev
```

For production

Same as above but this code will be minified and uglyfied making it almost impossible to debug, but perfect to reduce size and loading time

```
npm run build
```



Both command can be execute from the root or the *ui* folder