Cognizant Customer Experience Assurance Viewer

Technical Setup Guide

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General System Setup

For all machines, Go to hosts file and add. 127.0.0.1 (machine lp)

E.g.: -127.0.0.1 ec2-52-53-186-224.us-west-1.compute.amazonaws.com

Hosts file location: C://windows/System32/drivers/etc/

MODULE 1 – CXA Auth-Api

SOFTWARES REQUIRED

| SOFTWARE | VERSION | DOWNLOAD LINK | |
|---------------|---------|--|--|
| Java | 11 | Java Archive Downloads - Java SE 11 Oracle India | |
| IntelliJ Idea | Latest | Download IntelliJ IDEA – The Leading Java and Kotlin IDE (jetbrains.com) | |
| Gradle | 6.8.3 | Gradle Thank you for downloading Gradle! | |
| Mongo DB | 4.2.23 | Download MongoDB Community Server MongoDB | |
| Robo 3t | 1.4 | Robo 3T Free, open-source MongoDB GUI (formerly Robomongo) | |
| NSSM | 2.24 | NSSM - the Non-Sucking Service Manager | |

PORTS

Ports to be opened:

- Port **80** Node
- Port **27017** Mongo DB
- Port **4200** Auth-Api

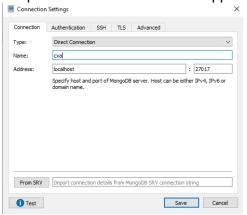
SOFTWARE INSTALLATION & SETUP

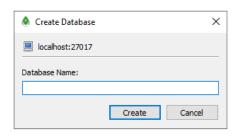
JAVA(JDK) Installation:

- 1. Download the java 11 Java Development Kit (JDK) from the provided link suitable for your machine.
- 2. Setup the environmental variables as JAVA_HOME and configure the file location in PATH also. Check and set how to set up environmental variables for your OS may require administrative rights.
- Once above steps are completed you can check whether java installation is successful or not by running java -version from command prompt it will show the installed version.

DATABASE Setup and Configuration:

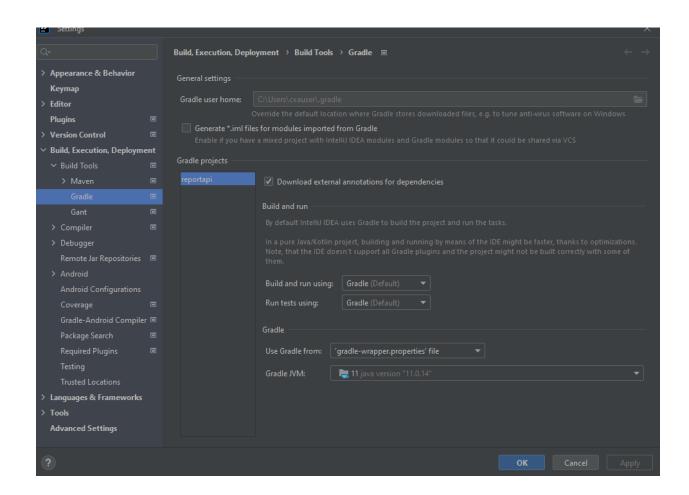
- Install Mongo Db from software list.
- If you use default, it will be no access.
- Check with Command Prompt whether MongoDb Server is installed.
- Open Robo 3T to check the connection (the below steps need to be followed)
- After that, Click on the cxa and create a database cxa.
- Open command, prompt run mongo cxa.js from the location of the cxa.js file which is present in docs folder and append all the data.



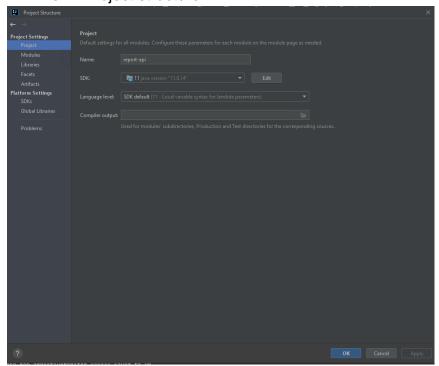


IntelliJ Auth-Api Setup and Configuration:

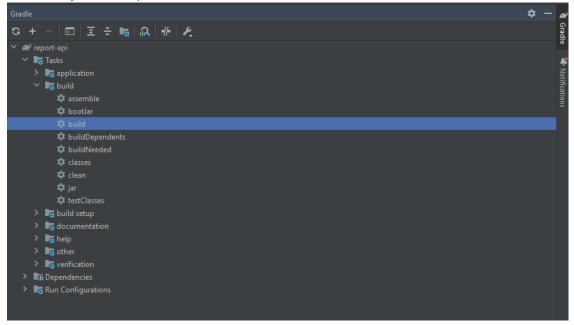
- Download and setup IntelliJ.
- Once it is completed open IntelliJ
- Open the project (each API project should be opened separately) .
- Inside IntelliJ config File-> settings ->Gradle set the Gradle wrapper present in the code.



Set the JDK in file -> Project structure.

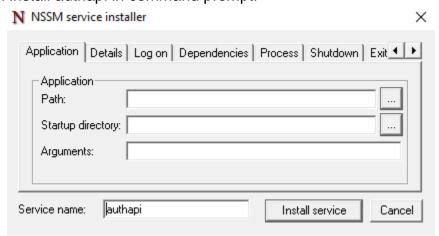


- Then Run Gradle build it will create a build folder.
- The build jar will be present inside build/libs.



NSSM Auth-Api Setup and Configuration:

- 1. Download and install NSSM software it will be present in program files.
- 2. Create a folder for cxa-dahboard and copy the build from the generated jar
- 3. Open command prompt cd C:\Program Files\nssm-2.24\
- 4. Run nssm install authapi in command prompt.



- 5. The path will be Java path (e.g., C:\Program Files\Java\jdk-11.0.14\bin\java.exe)
- 6. Startup directory will be fold of the jar present. (e.g., C:\CXA-Viewer)
- 7. Arguments:
 - -jar auth-api-1.0.0.jar --spring.data.mongodb.uri=mongodb://localhost:27017/cxa

Properties File Configuration:

```
app.jwt.token.secret.key = CxaDashboardSecretKey
app.jwt.token.expiration.milliSec = 86400000
app.jwt.token.issuer.name = CxaDashboard
spring.main.allow-circular-references=true
app.permission.admin=cxa.permission.admin
brcyptEncoderParameter = 12
spring.data.mongodb.uri=mongodb://localhost:27017/cxa
```

- The app.jwt.token.secret.key is the token secret encryption key which can we used as the JWT signature key.
- The app.jwt.token.expiratrion.millisec will be time duration of the expiration of the token.
- The app.permission.admin will be admin user permissions will exclude all method checks.

MODULE 2 – CXA Workbench-Api

SOFTWARES REQUIRED

| SOFTWARE | VERSION | DOWNLOAD LINK | |
|---------------|---------|--|--|
| Java | 11 | Java Archive Downloads - Java SE 11 Oracle India | |
| IntelliJ Idea | Latest | Download IntelliJ IDEA – The Leading Java and Kotlin IDE (jetbrains.com) | |
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| NSSM | 2.24 | NSSM - the Non-Sucking Service Manager |
|------|------|--|
| | | |

PORTS

Ports to be opened:

- Port 80 Node
- Port **27017** Mongo DB
- Port 2029 Workbench-Api

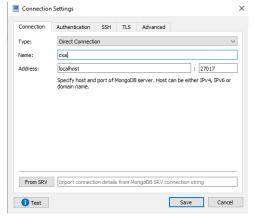
SOFTWARE INSTALLATION & SETUP

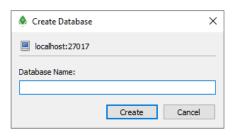
JAVA(JDK) Installation:

- 1. If you already configured it proceed to next step.
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DATABASE Setup and Configuration:

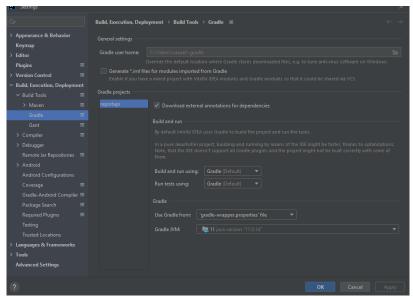
- If you already configured proceed to next step.
- Install Mongo Db from software list.
- If you use default, it will be no access.
- Check with Command Prompt whether MongoDb Server is installed.
- Open Robo 3T to check the connection (the below steps need to be followed)
- After That click on the cxa and create a database cxa.



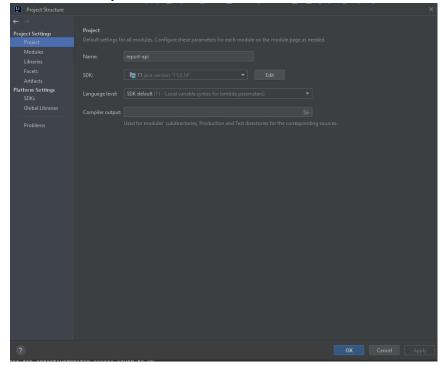


IntelliJ Workbench-Api Setup and Configuration:

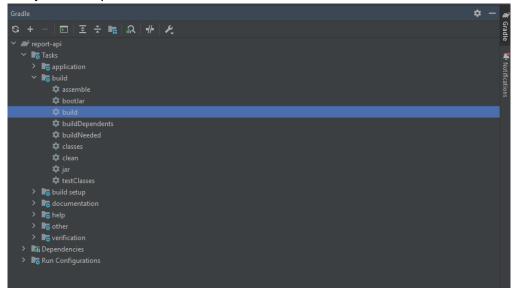
- Download and setup IntelliJ.
- Once it is completed open IntelliJ
- Open the project (each API project should be opened separately) .
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• Set the JDK in file -> Project structure.

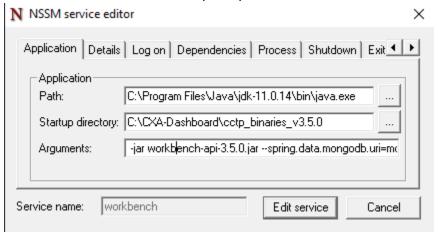


- Then Run Gradle build it will create a build folder.
- The build jar will be present inside build/libs.



NSSM Workbench-Api Setup and Configuration:

- 1. Download and install NSSM software it will be present in program files.
- 2. Create a folder for CXA-Viewer and copy the build from the generated jar.
- 3. Open command prompt cd C:\Program Files\nssm-2.24\
- 4. Run nssm install workbench in command prompt.



- a.
- 5. The path will be Java path (e.g., C:\Program Files\Java\jdk-11.0.14\bin\java.exe)
- 6. Startup directory will be fold of the jar present. (e.g., C:\CXA-Viewer)
- 7. Arguments:
 - a. -jar workbench-api-1.0.0.jar -spring.data.mongodb.uri=mongodb://localhost:27017/cxa

Properties File Configuration:

server.port=2029 spring.data.mongodb.uri=mongodb://localhost:27017/cxa

- server.port the port for running in service.
- spring.data.mongodb.uri is database connection.

MODULE 3 – CXA Report-Api

SOFTWARES REQUIRED

| SOFT WARE | VER SION | DOWNLOAD LINK | |
|----------------------|-------------|--|--|
| Java | 11 | Java Archive Downloads - Java SE 11 Oracle India | |
| IntelliJ Idea | Lates t | Download IntelliJ IDEA – The Leading Java and Kotlin IDE (jetbrains.com) | |
| Gradle | 6.8.3 | Gradle Thank you for downloading Gradle! | |
| Mongo DB | 4.2.2 | Download MongoDB Community Server MongoDB | |
| Robo 3t | 1.4 | Robo 3T Free, open-source MongoDB GUI (formerly Robomongo) | |
| NSSM | 2.24 | NSSM - the Non-Sucking Service Manager | |
| Google Chrom e | 114 | https://www.google.com/chrome/?brand=YTUH&gclid=EAlalQobChMlj4bqtcmYgAM V8pJmAh1rTQMvEAAYASAAEglxEvD_BwE&gclsrc=aw.ds | |
| Edge | 114 | https://www.microsoft.com/en-us/edge/download?form=MA13FJ | |

| Firefox | 114 | https://www.mozilla.org/en-US/firefox/new/ |
|---------|-----|--|
| | | |

PORTS

Ports to be opened:

- Port **80** Node
- Port **27017 -** Mongo DB
- Port 2025 Report-Api

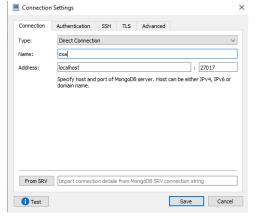
SOFTWARE INSTALLATION & SETUP

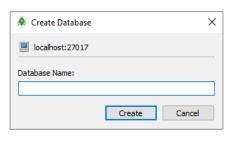
JAVA(JDK) Installation:

- 5. If you already configured it proceed to next step.
- 6. Download the java 11 Java Development Kit (JDK) from the provided link suitable for your machine.
- 7. Setup the environmental variables as JAVA_HOME and configure the file location in PATH also. Check and set how to set up environmental variables for your OS may require administrative rights.
- 8. Once above steps are completed you can check whether java installation is successful or not by running java -version from command prompt it will show the installed version.

DATABASE Setup and Configuration:

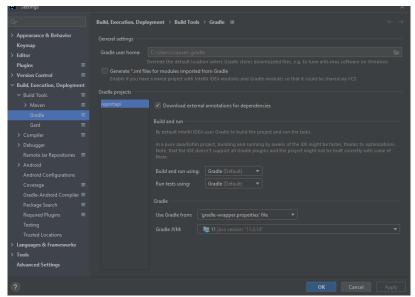
- If you already configured proceed to next step.
- Install Mongo Db from software list.
- If you use default, it will be no access.
- Check with Command Prompt whether MongoDb Server is installed.
- Open Robo 3T to check the connection (the below steps need to be followed)
- After That click on the cxa and create a database cxa.



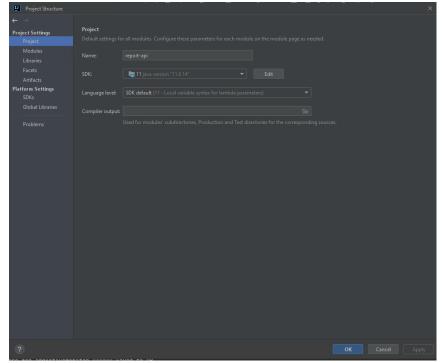


IntelliJ Workbench-Api Setup and Configuration:

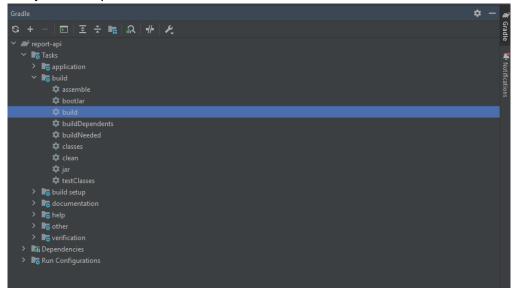
- Download and setup IntelliJ.
- Once it is completed open IntelliJ
- Open the project (each API project should be opened separately) .
- Inside IntelliJ config File-> settings -> Gradle set the Gradle wrapper present in the code.



Set the JDK in file -> Project structure.

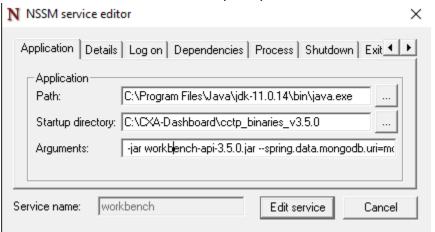


- Then Run Gradle build it will create a build folder.
- The build jar will be present inside build/libs.



NSSM Report-Api Setup and Configuration:

- 8. Download and install NSSM software it will be present in program files.
- 9. Create a folder for CXA-Viewer and copy the build from the generated jar.
- 10. Open command prompt cd C:\Program Files\nssm-2.24\
- 11. Run nssm install workbench in command prompt.



- 12. The path will be Java path (e.g., C:\Program Files\Java\jdk-11.0.14\bin\java.exe)
- 13. Startup directory will be fold of the jar present. (e.g., C:\CXA-Viewer)
- 14. Arguments:
 - -jar report-api-1.0.0.jar

Properties File Configuration:

Run Gradle build it will create a build folder.

- The build jar will be present inside build/libs.
- Run `-jar report-api-1.0.0.jar --spring.data.mongodb.uri=mongodb://localhost:27017/cxa`.
- mongodb-url: `mongodb://<username>:<password>@host/<databasename>`.
- edgeDriverLocation,chromeDriverLocation,chromeDriverLocation: location of the drivers for the respective chrome versions.
- firefoxBinaryLocation : Location of Binary file of firefox.
- logging.file.name : log file location.
- saucelabs : saucelabs should be true if need to run in sauceLabs and need to provide remoteUrlForOmnichannelPerformance.
- remoteUrlForOmnichannelPerformance : SauceLab Grid url for running in Sauce Lab Driver (eg: `https://<username>:<acceskey>@ondemand.eu-central-1.saucelabs.com:443/wd/hub`)
- remoteUrl: Need to provide the cloud Url with `http://<url>` or `https://<url>`
- app.jwt.token.secret.key is the token secret encryption key which can we used as the JWT signature key.
- app.jwt.token.expiratrion.millisec will be time duration of the expiration of the token.
- app.permission.admin will be admin user permissions will exclude all method checks.

Permission details

- Reports Controller we need permissions as below

```
'```json
[
{
    "_id" : "cxa.report.read",
    "group": "report",
    "name" : "Read Report"
},
{
    "_id" : "cxa.report.write",
    "group": "report",
    "name" : "Update Report"
}
]
```

MODULE 4 – CXA (SEO, Security, Performance, Accessibility, Active Monitor) - Api

SOFTWARES REQUIRED

| SOFT WARE | VER SION | DOWNLOAD LINK | |
|------------------|-------------|--|--|
| Java | 11 | Java Archive Downloads - Java SE 11 Oracle India | |
| IntelliJ Idea | Lates t | Download IntelliJ IDEA – The Leading Java and Kotlin IDE (jetbrains.com) | |
| Gradle | 6.8.3 | Gradle Thank you for downloading Gradle! | |
| Mongo DB | 4.2.2 | Download MongoDB Community Server MongoDB | |
| Robo 3t | 1.4 | Robo 3T Free, open-source MongoDB GUI (formerly Robomongo) | |

| NSSM | 2.24 | NSSM - the Non-Sucking Service Manager |
|----------------------|------|--|
| Google Chrom e | 114 | https://www.google.com/chrome/?brand=YTUH&gclid=EAlalQobChMlj4bqtcmYgAM V8pJmAh1rTQMvEAAYASAAEglxEvD_BwE&gclsrc=aw.ds |
| Edge | 114 | https://www.microsoft.com/en-us/edge/download?form=MA13FJ |
| Firefox | 114 | https://www.mozilla.org/en-US/firefox/new/ |

PORTS

Ports to be opened:

- Port **80** Node
- Port **27017** Mongo DB
- Port **3035** SEO-Api
- Port **3190** Active Monitor-Api
- Port **3047** Performance-Api
- Port **3044** Accessibility-Api
- Port **3087** Security-Api

SOFTWARE INSTALLATION & SETUP

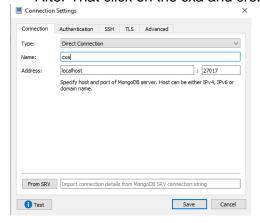
JAVA(JDK) Installation:

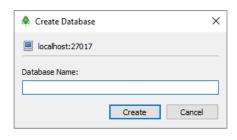
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- 3. Setup the environmental variables as JAVA_HOME and configure the file location in PATH also. Check and set how to set up environmental variables for your OS may require administrative rights.
- 4. Once above steps are completed you can check whether java installation is successful or not by running java -version from command prompt it will show the installed version.

DATABASE Setup and Configuration:

- If you already configured proceed to next step.
- Install Mongo Db from software list.
- If you use default, it will be no access.
- Check with Command Prompt whether MongoDb Server is installed.

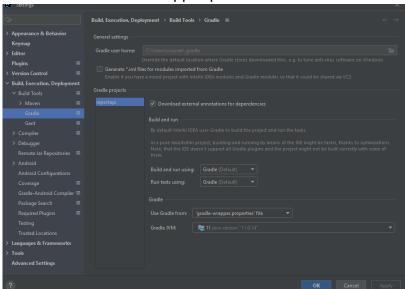
- Open Robo 3T to check the connection (the below steps need to be followed)
- After That click on the cxa and create a database cxa.



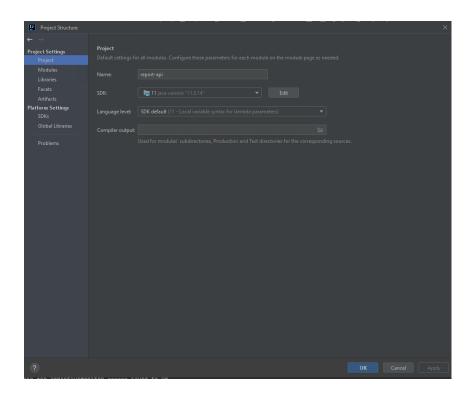


IntelliJ Workbench-Api Setup and Configuration:

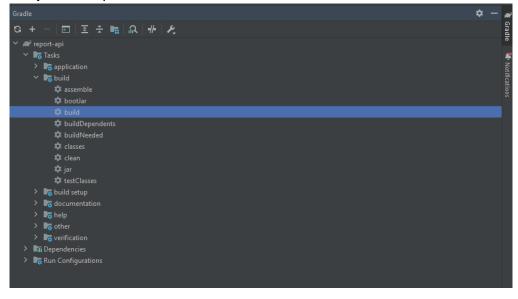
- Download and setup IntelliJ.
- Once its completed open IntelliJ open the project inside IntelliJ config File-> settings ->Gradle set the Gradle wrapper present in the code.



• Set the JDK in file -> Project structure.



- Then Run Gradle build it will create a build folder.
- The build jar will be present inside build/libs.



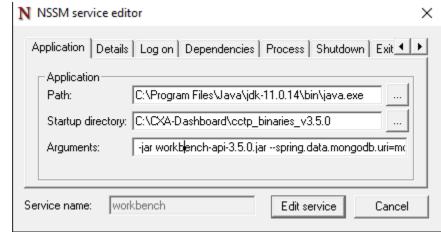
Chrome, Edge, Firefox Setup and Configuration:

- 1. Download all the browsers and install in your machine.
- 2. Download the respective drivers for the respective browser versions also and mention the file location in respective properties file.
 - a. Chrome driver Google Chrome.
 - b. Gecko driver Firefox.

c. Msedge driver – Microsoft Edge.

NSSM Setup and Configuration:

- 1. Download and install NSSM software it will be present in program files.
- 2. Create a folder for CXA-Viewer and copy the build from the generated jar.
- 3. Open command prompt cd C:\Program Files\nssm-2.24\
- 4. Run nssm install workbench in command prompt.



- a.
- 5. The path will be Java path (e.g., C:\Program Files\Java\jdk-11.0.14\bin\java.exe)
- 6. Startup directory will be fold of the jar present. (e.g., C:\CXA-Viewer)
- 7. Arguments:
 - a. -jar <respective api>-api-1.0.0.jar

Properties File Configuration:

- Run Gradle build it will create a build folder.
- The build jar will be present inside build/libs.
- Run `-jar <respective api>-api-1.0.0.jar
- mongodb-url: `mongodb://<username>:<password>@host/<databasename>`.
- edgeDriverLocation, chromeDriverLocation, chromeDriverLocation: location of the drivers for the respective chrome versions.
- firefoxBinaryLocation : Location of Binary file of firefox.
- logging.file.name: log file location.
- remoteUrl: Need to provide the cloud Url with `http://<url>` or `https://<url>`
- app.jwt.token.secret.key is the token secret encryption key which can we used as the JWT signature key.
- app.jwt.token.expiratrion.millisec will be time duration of the expiration of the token.
- app.permission.admin will be admin user permissions will exclude all method checks.

Permission details

- Reports Controller we need permissions as below

```
json
[
{
    "_id": "cxa.report.read",
    "group": "report",
    "name": "Read Report"
},
{
    "_id": "cxa.report.write",
    "group": "report",
    "name": "Update Report"
}
```

MODULE 5 – CXA Active Monitor Cloud-Api

SOFTWARES REQUIRED

| SOFT WARE | VER SION | DOWNLOAD LINK | |
|----------------------|-------------|--|--|
| Java | 11 | Java Archive Downloads - Java SE 11 Oracle India | |
| IntelliJ Idea | Lates t | Download IntelliJ IDEA – The Leading Java and Kotlin IDE (jetbrains.com) | |
| Gradle | 6.8.3 | Gradle Thank you for downloading Gradle! | |
| NSSM | 2.24 | NSSM - the Non-Sucking Service Manager | |
| Google Chrom e | 114 | https://www.google.com/chrome/?brand=YTUH&gclid=EAlalQobChMlj4bqtcmYgAM V8pJmAh1rTQMvEAAYASAAEglxEvD_BwE&gclsrc=aw.ds | |
| Edge | 114 | https://www.microsoft.com/en-us/edge/download?form=MA13FJ | |
| Firefox | 114 | https://www.mozilla.org/en-US/firefox/new/ | |

PORTS

Ports to be opened:

- Port 80 Node
- Port **27017** Mongo DB
- Port 5003 Active Monitor Cloud-Api

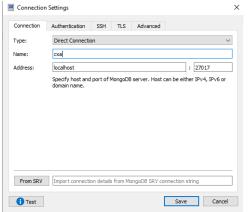
SOFTWARE INSTALLATION & SETUP

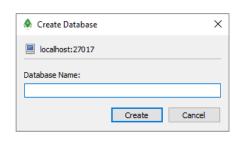
JAVA(JDK) Installation:

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DATABASE Setup and Configuration:

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- Open Robo 3T to check the connection (the below steps need to be followed)
- After That click on the cxa and create a database cxa.

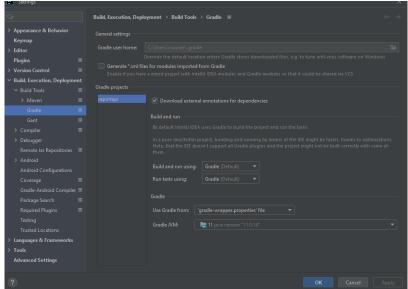




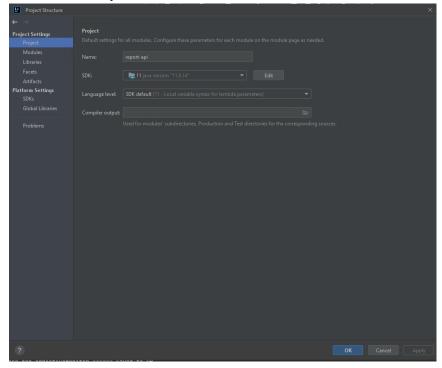
IntelliJ Workbench-Api Setup and Configuration:

Download and setup IntelliJ.

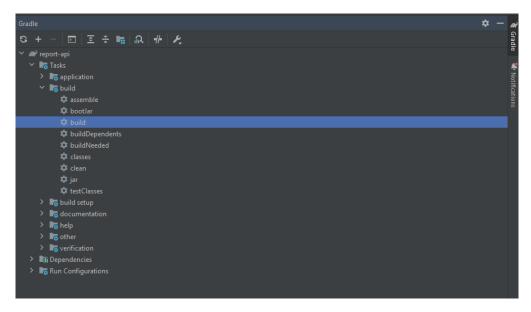
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• Set the JDK in file -> Project structure.



- Then Run Gradle build it will create a build folder.
- The build jar will be present inside build/libs.

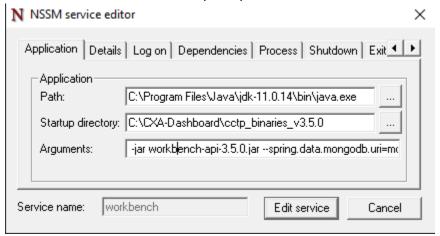


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 - b. Gecko driver Firefox.
 - c. Msedge driver Microsoft Edge.

NSSM Active Monitor Cloud-Api Setup and Configuration:

- 1. Download and install NSSM software it will be present in program files.
- 2. Create a folder for CXA-Viewer and copy the build from the generated jar.
- Open command prompt cd C:\Program Files\nssm-2.24\
- 4. Run nssm install workbench in command prompt.



5. The path will be Java path (e.g., C:\Program Files\Java\jdk-11.0.14\bin\java.exe)

- 6. Startup directory will be fold of the jar present. (e.g., C:\CXA-Viewer)
- 7. Arguments:
 - a. -jar java-selenium-api-1.0.0.jar

Properties File Configuration:

- Run Gradle build it will create a build folder.
- The build jar will be present inside build/libs.
- Run `-jar java-selenium-api-1.0.0.jar
- mongodb-url: `mongodb://<username>:<password>@host/<databasename>`.
- edgeDriverLocation,chromeDriverLocation,chromeDriverLocation: location of the drivers for the respective chrome versions.
- firefoxBinaryLocation : Location of Binary file of firefox.
- logging.file.name : log file location.
- remoteUrl: Need to provide the cloud Url with `http://<url>` or `https://<url>`
- app.jwt.token.secret.key is the token secret encryption key which can we used as the JWT signature key.
- devurl: main server url
- app.jwt.token.expiratrion.millisec will be time duration of the expiration of the token.
- app.permission.admin will be admin user permissions will exclude all method checks.

Permission details

- Reports Controller we need permissions as below

```
"_ison
[
{
    "_id" : "cxa.report.read",
    "group": "report",
    "name" : "Read Report"
},
{
    "_id" : "cxa.report.write",
    "group": "report",
    "name" : "Update Report"
}
]
....
```

MODULE 6 – Node Light House - Api

SOFTWARES REQUIRED

| SOFT WARE | VER SION | Download Link |
|--------------|-------------|--|
| NodeJ | 16.16 | Node v16.16.0 (LTS) Node.js (nodejs.org) |
| S | .0 | |
| NSSM | 2.24 | NSSM - the Non-Sucking Service Manager |
| VS | Any | Download Visual Studio Code - Mac, Linux, Windows |
| Code | | |
| Google | 114 | https://www.google.com/chrome/?brand=YTUH&gclid=EAlaIQobChMIj4bqtcmYgA |
| Chrome | | MV8pJmAh1rTQMvEAAYASAAEglxEvD_BwE&gclsrc=aw.ds |
| Edge | 114 | https://www.microsoft.com/en-us/edge/download?form=MA13FJ |
| Firefox | 114 | https://www.mozilla.org/en-US/firefox/new/ |

PORTS

Ports to be opened:

- Port **80 -** Node
- Port **27017** Mongo DB
- Port **5001** Lighthouse-Api

NODE COMPONENT

Node.js Installation:

- 1. Visit the official Node.js website (https://nodejs.org) and download the appropriate installer for your operating system.
- 2. Run the installer and follow the on-screen instructions to complete the installation.
- 3. After installation, open a command prompt or terminal and type node -v to verify that Node.js is installed correctly. You should see the version number displayed.

Node.js Deployment:

1. After installing node cd to the project cd lighthouse

- 2. Run command npm install it will create all the dependencies and install all the required dependencies.
- 3. Once it done go to configuration file and configure all the values
- 4. Run node server.js and it will be running on 5001 Port.

NSSM Setup and Configuration:

- 1. Download and install NSSM software it will be present in program files.
- 2. Create a folder for CXA-Viewer and copy the build from the generated jar.
- 3. Open command prompt cd C:\Program Files\nssm-2.24\
- 4. The path will be Node path.
- 5. Startup directory will be fold of the jar present. (e.g., C:\CXA-Viewer\Lighthouse)
- Arguments: node server.js

MODULE 7 – ANGULAR

SOFTWARES REQUIRED

| SOFTWARE | VERSION | Download Link |
|----------|---------|--|
| NodeJS | 16.16.0 | Node v16.16.0 (LTS) Node.js (nodejs.org) |
| NSSM | 2.24 | NSSM - the Non-Sucking Service Manager |
| VS Code | Any | <u>Download Visual Studio Code - Mac, Linux, Windows</u> |
| NGINX | 1.2 | nginx: download |
| Angular | 13.0.0 | <u>Angular</u> |

NODE COMPONENT

Node.js Installation:

- 1. Visit the official Node.js website (https://nodejs.org) and download the appropriate installer for your operating system.
- 2. Run the installer and follow the on-screen instructions to complete the installation.

3. After installation, open a command prompt or terminal and type node -v to verify that Node.js is installed correctly. You should see the version number displayed.

ANGUALR COMPONENT

Angular Installation and Deployment:

1. Install Angular CLI: - Open a command prompt or terminal and run the following command to install the Angular CLI globally:

npm install -g @angular/cli

2. Navigate to the project directory: - Change to the project directory by running the following command:

cd CXA-VIEWER

3. Serve the application locally: - To test your application locally, run the following command:

ng serve -o --host=0.0.0.0 --disable-host-check

- **4.** This will compile the application and start a local development server. You can access your application in a web browser at http://localhost:4200.
- 5. Build the application for production: When you are ready to deploy your application, you need to build it for production and. Run the following command:

ng build --subresource-integrity --prod --base-href=/ --deployUrl=/ --output-path=./dist/out

6. This will create a dist directory with the compiled and optimized version of your application.

NGINX Installation and Deployment:

- 1. Install NGINX from the link.
- 2. Replace the nginx.config file int the installed folder to the nginx.config file provide in docs folder.
- 3. Deploy the dist created in a folder and config the file location inside the NGINX config file.