

Installation Procedure for Ubuntu Linux

1. Install Ubuntu server preferably version 20.04
2. Update the system: **#apt-get update**
3. Install nodeJS: **#apt-get install nodejs**
4. Install the latest mongodb:
(reference: <https://docs.mongodb.com/manual/tutorial/install-mongodb-on-ubuntu/>)
 - a. **#apt-get install gnupg**
 - b. **#wget -qO - https://www.mongodb.org/static/pgp/server-4.4.asc | sudo apt-key add -**
 - c. **#echo "deb [arch=amd64,arm64] https://repo.mongodb.org/apt/ubuntu focal/mongodb-org/4.4 multiverse" | sudo tee /etc/apt/sources.list.d/mongodb-org-4.4.list**
 - d. **#apt-get update**
 - e. **#apt-get install -y mongodb-org**
 - f. **#systemctl start mongod**
 - g. To verify status of mongodb: **#systemctl status mongod**
 - h. configure mongodb to start on reboot: **#systemctl enable mongod**
5. Install libreoffice: **#apt-get install libreoffice**
6. Install PDF Toolkit: **#apt-get install pdftk**
7. Install Poppler Utilities: **#apt-get install poppler-utils**
8. Install Tesseract OCR: **#apt-get install tesseract-ocr**
9. Install Ghost Script: **#apt-get install ghostscript**
10. Create default "drive" folder and its required subdirectories (case sensitive):
 - a. **#mkdir /drive**
 - b. **#mkdir /drive/Archive**
 - c. **#mkdir /drive/incoming**
 - d. **#mkdir /drive/Recoverhere**
 - e. **#mkdir "/drive/Routing Slip"** (put double quote for 2 words)
 - f. **#mkdir /drive/textML**
11. Create folder for the e-Dokumento: **#mkdir /edokyu**
12. Download the latest e-Dokumento from the GitHub:

#git clone <https://github.com/nelsonmaligro/e-Dokumento> /edokyu/
13. Import the default collections for the "docMS" database:

- a. `#mongoimport --host="localhost" --db=docMS --collection=useraccs --drop --file=/edokyu/models/useraccs.json`
- b. `#mongoimport --host="localhost" --db=docMS --collection=activitylogs --drop --file=/edokyu/models/activitylogs.json`
- c. `#mongoimport --host="localhost" --db=docMS --collection=branches --drop --file=/edokyu/models/branches.json`
- d. `#mongoimport --host="localhost" --db=docMS --collection=classes --drop --file=/edokyu/models/classes.json`
- e. `#mongoimport --host="localhost" --db=docMS --collection=commologs --drop --file=/edokyu/models/commologs.json`
- f. `#mongoimport --host="localhost" --db=docMS --collection=monitoraccs --drop --file=/edokyu/models/monitoraccs.json`
- g. `#mongoimport --host="localhost" --db=docMS --collection=pndocs --drop --file=/edokyu/models/pndocs.json`
- h. `#mongoimport --host="localhost" --db=docMS --collection=settings --drop --file=/edokyu/models/settings.json`
- i. `#mongoimport --host="localhost" --db=docMS --collection=tags --drop --file=/edokyu/models/tags.json`
- j. `#mongoimport --host="localhost" --db=docMS --collection=tempmonitoraccs --drop --file=/edokyu/models/tempmonitoraccs.json`

14. Start the e-Dokyumento Application:

- a. `#cd /edokyu`
- b. `#node index.js`

15. Congratulations! You can now browse the e-dokyumento at :

<https://<ip address>>

Post Installation Procedure

1. To make the e-Dokyumento run automatically during reboot:

- a. Install the NPM package manager: `#apt-get install npm`
- b. Install forever module: `#npm install forever -g`
- c. Install nodemon module: `#npm install nodemon -g`
- d. Edit crontab: `#crontab -e`
- e. Add the following 2 lines:

```
@reboot cd /edokyu && /usr/local/bin/forever -c "/usr/local/bin/nodemon --exitcrash" index.js > /dev/null 2>&1
```

```
@reboot cd /edokyu/controllers && /usr/local/bin/forever -c  
"/usr/local/bin/nodemon --exitcrash" folderwatch.js > /dev/null 2>&1
```

- f. Save and reboot
2. In order to enable and use the Intelligent Document Classification through the Machine Learning, we need to install the required python libraries.
 - a. Ensure Python version 3 is installed: **#python --version**
 - b. If not, Install Python3: **#apt-get install python3**
 - c.
 - d. Make Python3 as the default alias for python: **#apt-get install python-is-python3**
 - e. Install Python package manager to use pip command: **#apt-get install python3-pip**
 - f. Install Tensorflow: **#pip3 install tensorflow**
 - g. Install Pandas: **#pip3 install pandas**
 - h. Install Keras core: **#pip3 install keras**
 - i. Install Keras Model: **#pip3 install keras-models**
 - j. Browse the e-Dokumento using the browser and login as Administrator account
 - k. Click “Advanced”, “Settings” and check the “Enable Machine Learning”, then click save.
- 3.