

## 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 mongodb: **#apt-get install mongodb**
5. Install libreoffice: **#apt-get install libreoffice**
6. Install PDF Tollkit: **#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-Dokumento Application:

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

15. Congratulations! You can now browse the e-dokumento at <https://<ip address>>

## **Post Installation Procedure**

1. To make the e-Dokumento 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**
- 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. Then make Python3 as the default alias for python command:
  - i. Open bash alias using nano editor: **#nano ~/.bash\_aliases**
  - ii. Add this line: **alias python=/usr/bin/python3.8**

- iii. Save and reboot
- iv. After reboot, verify the python command: **#python --version**
- d. Install Python package manager to use pip command: **#apt-get install python3-pip**
- e. Install Tensorflow: **#pip install tensorflow**
- f. Install Pandas: **#pip install pandas**
- g. Install Keras core: **#pip install keras**
- h. Install Keras Model: **#pip install keras**
- i. Install Keras Processing: **#pip install keras**
- 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.