# EWARS: Towards simplified tool installation

Despite being free and popular, using the open-access R package can be associated with sophisticated and complex applications when sought for implementation work. Therefore, in an attempt to simplify and atumoate the installation process of the EWARS, we have now developed what is referred to as the ‘docker image’, which can accommodate all essential R packages, updates and settings. This docker image can now be used for both, local (data-based) and web-based servers. It can also be equally applied for users with Lynax, Mac and Window applications by downloading the corresponding package, as illustrated here under.

This work is best conducted by skilled IT personal. Please follow the below instructions in order complete the installation of EWARS:

# Steps for running the EWARS docker image

1. Download and install docker,see <https://docs.docker.com/engine/install/>
2. Pull the EWARS plus public docker image, run the command on terminal:

* docker pull maquins/ewars\_plus:ewars: this downloads the ewars docker image ≈3.51GB
* The ‘Terminal’ is a command box found in all PCs, e.g. type terminal under your computer search and you will have a terminal box appearing where you can paste this command.
* After downloading the new docker image, start the container from docker, when it prompts you for further settings, insert 3838 under port and then open browser.

1. Run the container with the command :

docker run -dp 3838:3838 maquins/ewars\_plus:ewars

1. go to the link <http://localhost:3838> on your browser to see the ewars dashboard interface

# Minor changes to the dashboard:

We have made further minor modifications to the EWARS features to improve its application. After uploading the shapefiles and surveillance data, there is ‘run model’ button to run the model once the user has selected:

* lag time in weeks
* alarm indicators
* cut off year for model validation