

EarthConsole™ G-BOX IDE – Integrated Development Environment

The **G-BOX service** offers a cloud-based virtual machine for algorithm and software development, with Jupyterlab for a web-based interactive access.

Advantages at a glance:

- **FAST ACCESS TO EARTH OBSERVATION DATA**
G-BOX instances are deployed as Virtual Machines on the DIAS and provide high-speed network connection access to the dataset offered by the Data and Information Access Services – DIAS, preventing users from the costly remote download of the data.
- **PRE-INSTALLED SOFTWARE FOR EARTH OBSERVATION DATA ANALYSIS**
The virtual machine comes with pre-installed packages and software supporting Earth Observation data exploitation: SNAP, QGIS, R, BRAT, and JupyterLab for quick data analysis and visualization. The flexible nature of G-BOX offers the possibility to install additional software on request.
- **ACCESSIBILITY ANYWHERE**
The cloud virtual machine is accessible from any device and any location via one's own PC using SSH for command line access, x2go for remote desktop and JupyterLab for http web access.
- **READY-TO-USE SCRIPTS**
A set of custom Jupyter Notebooks and ready-to-use scripts can be made available on the virtual machine for data discovery, download, access and visualisation.
- **FLEXIBILITY**
G-BOX offers a flexible amount of CPUs, RAM and dedicated storage tailored to users' requirements. When needed, users can request upgrades of the configuration (asking more CPUs, RAM or storage), compatibly with the Cloud infrastructure constraints.
- **A DEDICATED Web App TO CONTROL THE G-BOX**
Users will have full control over their customized virtual machine through a dedicated Web App where they can review the resources, the VM status and information, start and stop the VM or get in touch with us to request support.

Users can submit a sponsorship request for this service via the NoR portal.