Project ID:	**Fly-Radar**
Project Title:	***"Low-frequency multi-mode (SAR and penetrating) radar onboard light-weight UAV for Earth and Planetary exploration"***
Call:	**H2020-MSCA-RISE-2020**

WP9: Project Office

D9.1: Tool to support internal communication and data sharing (project management cloud)

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Document History

Version	Date	Description
1	28/05/2021	Final Draft
2	31/05/2021	Final Version
3	06/09/2021	Final Revision (after PO rejection for dissemination level)

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Table of Contents

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1. Tool to support internal communication and data sharing

1. 1 The Project Management Cloud

As a primary tool to facilitate exchange of information, a web based shared collaborative environment, the **Project Management Cloud,** has been set up; which serves as a project tracking system accessible to all partners.

All information/documentation is therein easily accessible and kept up to date with little effort.

The Fly-Radar Cloud will be actively used on a day-to-day base and will constitute the primary repository for both documents and research data.

The **Project Management Cloud** contains the following folders:

- ➔ Action List
- ➔ Administrative
- ➔ Contact Information
- ➔ Deliverables
- ➔ Dissemination Materials
- ➔ GA and CA
- ➔ Meetings (which includes Agenda, Minutes and Presentations)
- ➔ Templates
- ➔ Working documents
- ➔ Research data repository

The project Management Cloud can be accessed through the project website (main menu/cloud):

- ➔ https://www.flyradarproject.eu/

Access to the project cloud is restricted to the project partners.

The login box is shown in figure 1.

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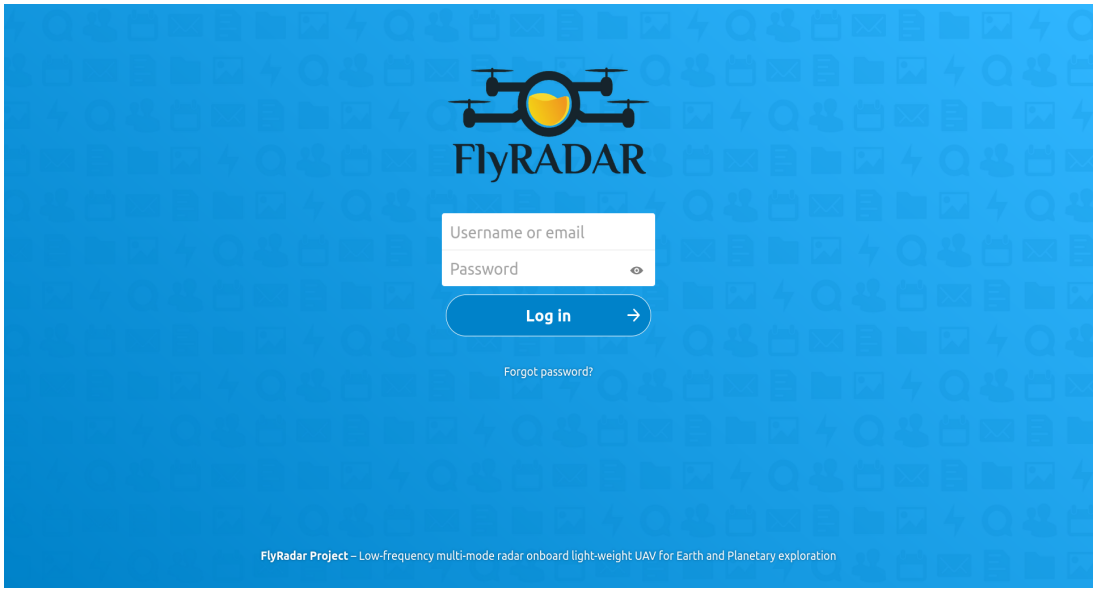
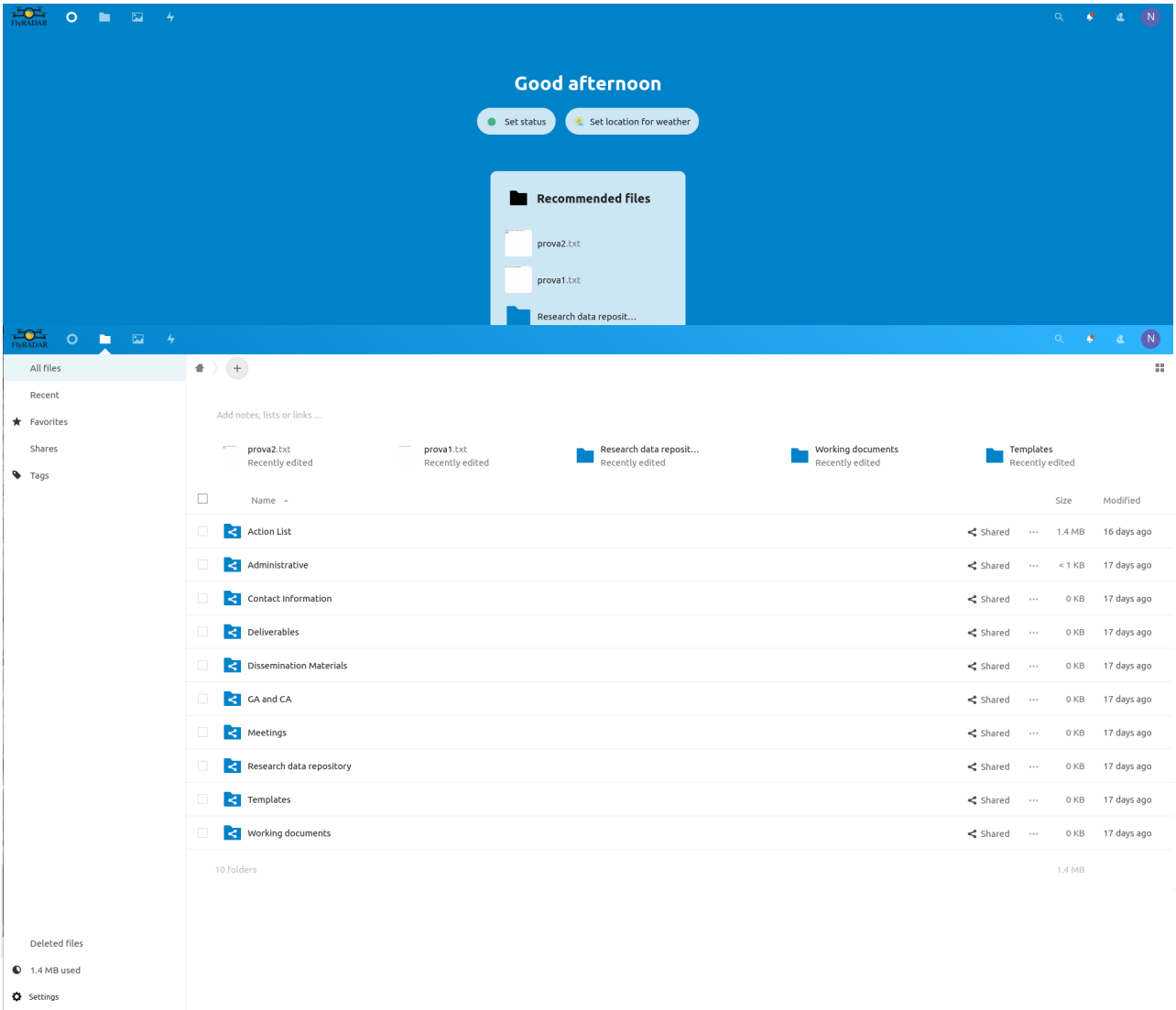
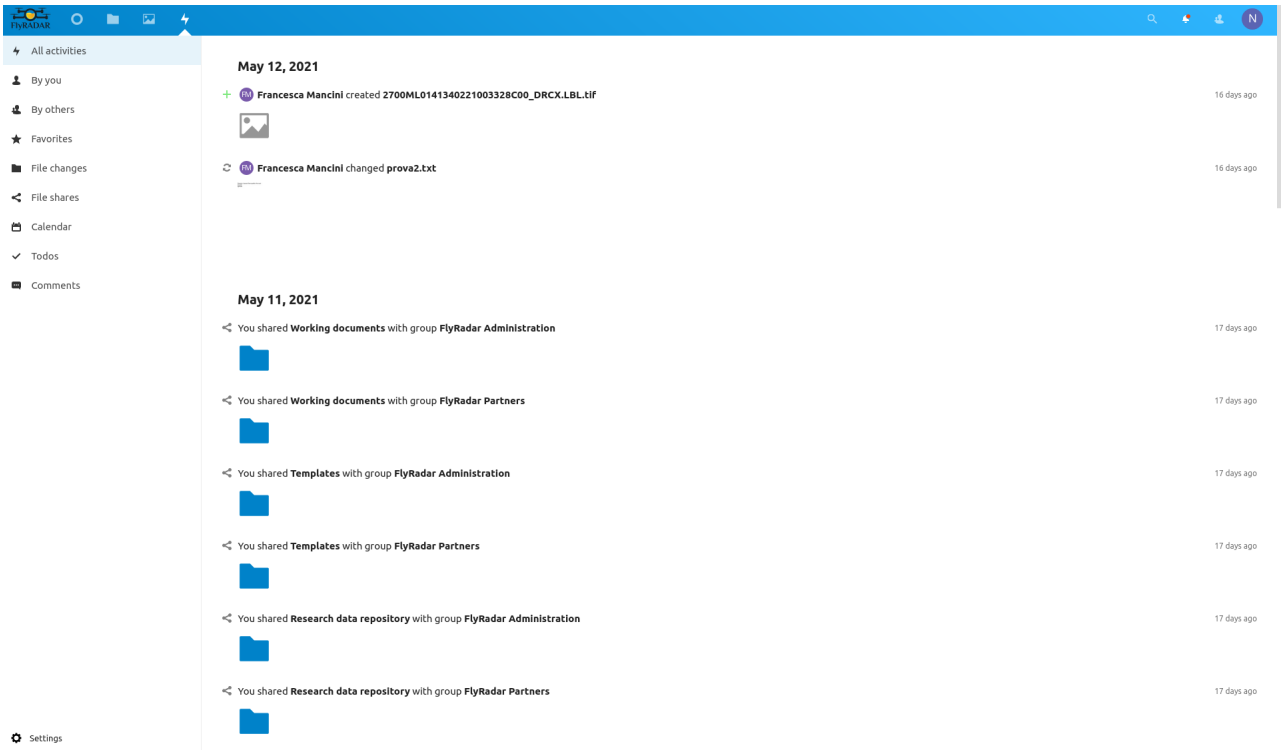
Figure 1: Login box



The following figures provide a view of the internal structure of the Fly-Radar cloud:





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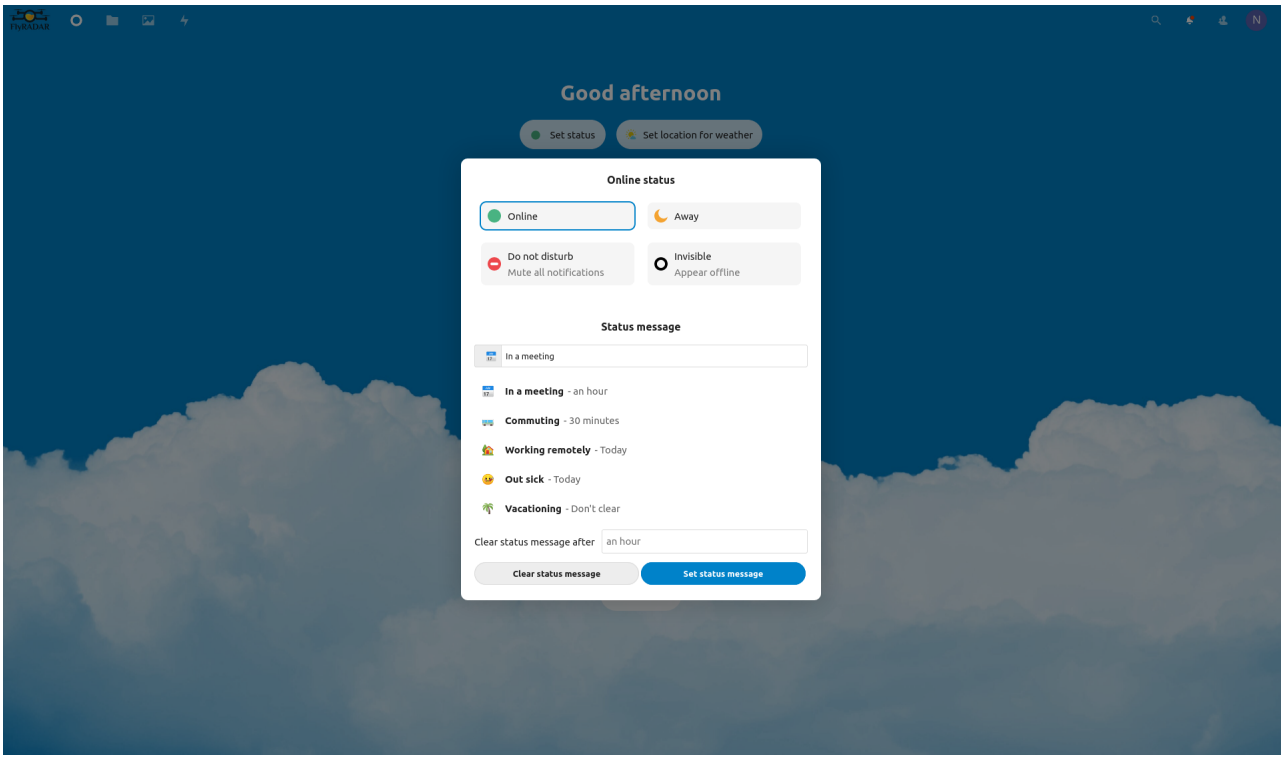

1. 2 Cloud Technical Details

The Object Storage Cloud solution selected for the project is a self hosted GNU/Linux-based server on which a dedicated open-source Cloud platform suite is installed.

The operating system of the server is Fedora Server, version 34, an open-source Linux distribution developed by the community-supported Fedora Project.

The Fedora Project is currently sponsored also by Red Hat (recently acquired by IBM), which employees make up around the 35% of project contributors, but most of the over 2,000 contributors are unaffiliated members of the community.

Among the main security measures, the server is equipped with a dynamically managed firewall “Firewalld” with support for network and firewall zones to define different trust level of network connections or interfaces.

The network capabilities are actually managed by an open-source “Apache HTTP Server” instance, witch provides a variety of MultiProcessing Modules (MPMs).

The Cloud platform chosen is “Nextcloud” an open-source collaboration software platform with file sync and share capabilities, currently in version 21.0.2, which run on Apache.

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Nextcloud allows different levels of security, to set up users with different levels of authorisation and dynamic and collaborative file editing.

Users will have access to both shared folders and files and a personal storage component.

The main advantages of this server solution is that it includes direct support for the hardware components, the possibility of local data storage and backups, and greater flexibility in adapting the software to the needs of the project.

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END OF REPORT

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