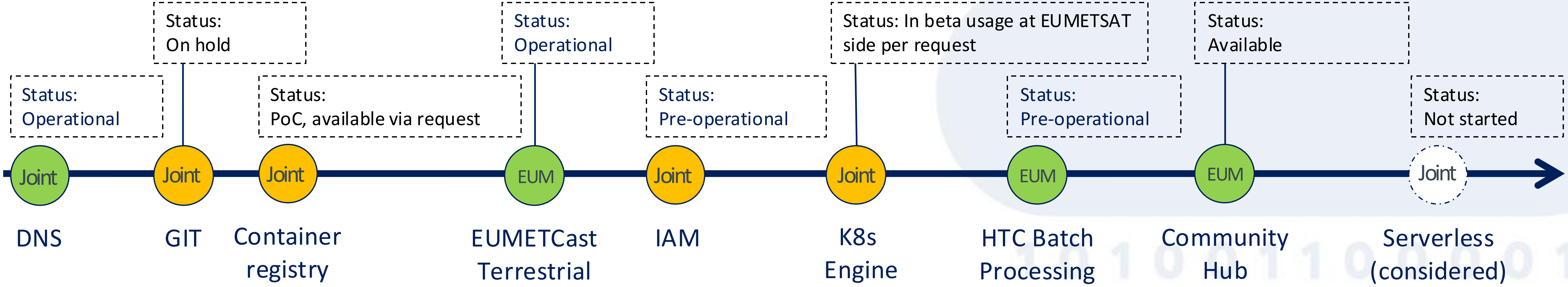
# Moving forward to provide platform services

- Currently, the service mainly IaaS meaning that users can deploy VMs and additional infrastructure resources
- We are updating the EWC to contain more centrally managed platform and software services
- All services are first released as beta versions and later either operationalized or terminated based on their usefulness and feasibility
- The roadmap is open for updates and reprioritization, based on the user needs



Status: Operational — Joint — DNS

Status: On hold — Joint — GIT

Status: PoC, available via request — Joint — Container registry

Status: Operational — EUM — EUMETCast Terrestrial

Status: Pre-operational — Joint — IAM

Status: In beta usage at EUMETSAT side per request — Joint — K8s Engine

Status: Pre-operational — EUM — HTC Batch Processing

Status: Available — EUM — Community Hub

Status: Not started — Joint — Serverless (considered)

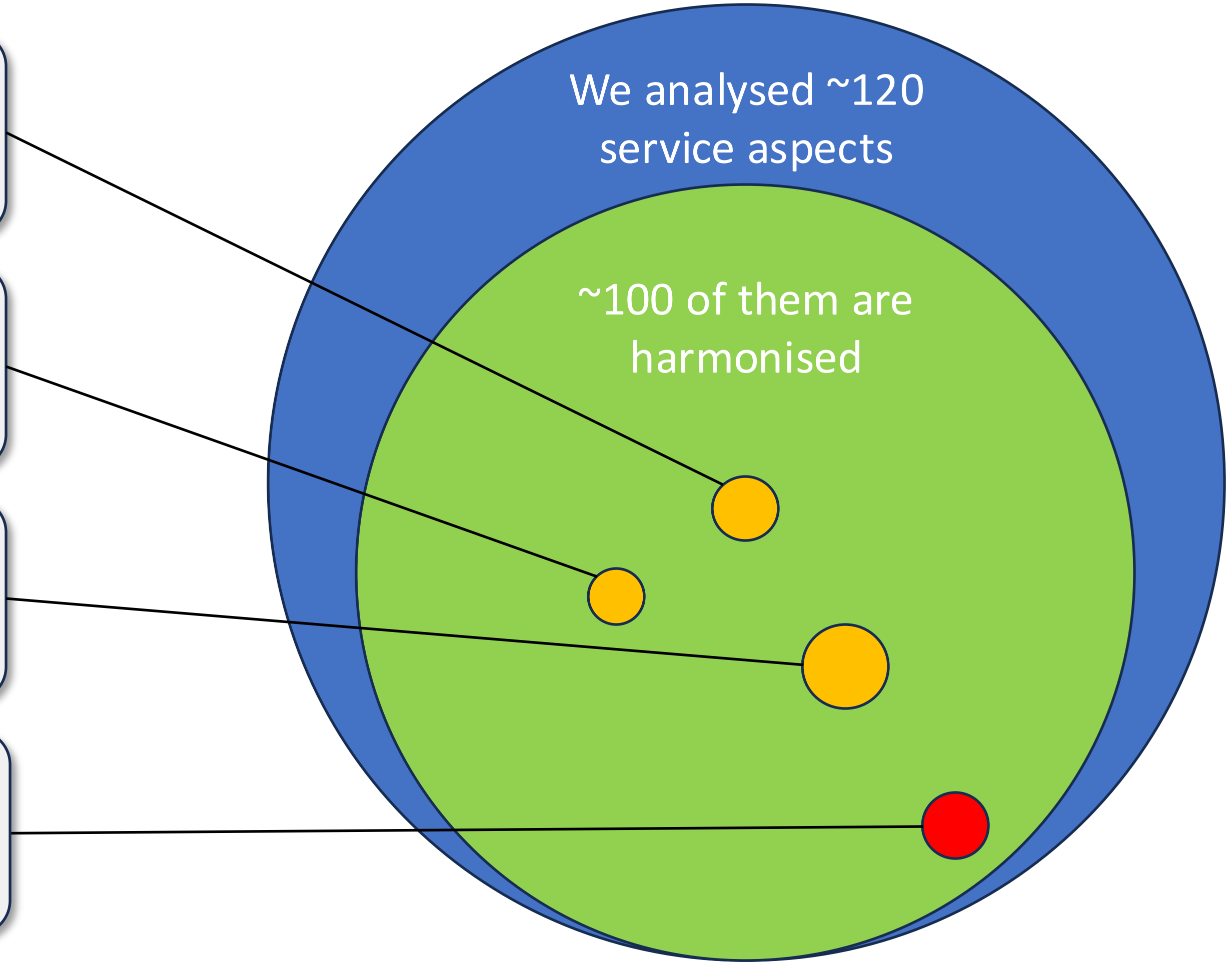
# EUMETSAT and ECMWF are actively working to harmonise the service over the whole EWC

Developed platform services will be harmonised as part of platform services development

VM plans and private network naming will be harmonised via infrastructure update

EUMETSAT default setup and various instance types will be harmonised in Community Hub

4 identified differences are not currently planned to be harmonised



We analysed ~120 service aspects

~100 of them are harmonised

All Terraform and Ansible templates work at both side with minimal changes

# EUMETSAT and ECMWF are considering alternatives for cloud management layer

The EWC Team did an analyses of required features and possible outcomes and asked from Users in the previous user survey about Morpheus

- 8 verbal comments regarding Morpheus, all negative or very negative, most with specific point. Many challenges can be addressed by lower-level access to OpenStack

Morpheus provides some crucial features such as easy deployment for non-technical users, monitoring of the VMs, and secret management

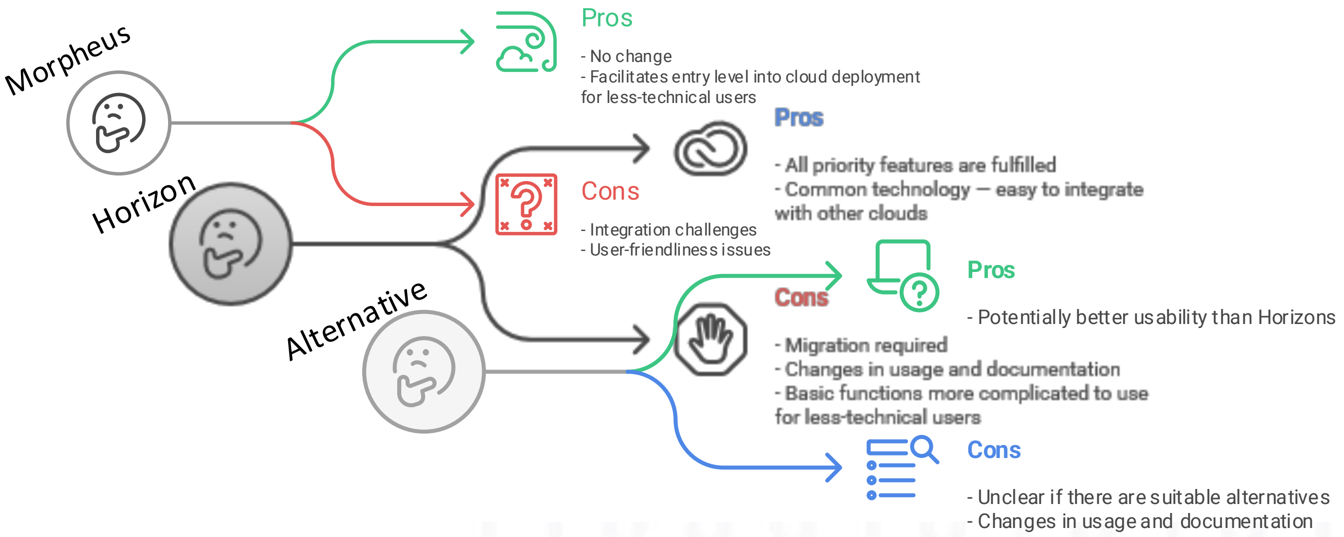
- Alternatives like OpenStack have a steep learning curve

Example of required features in the analyses

| MUST HAVE | NICE TO HAVE |
|---|---|
| - IAM integration<br>- Full admin to the tenancy (incl. VMs, network, storage)<br>- Commonly supported API<br>- User Interface for the basic functions<br>- Support for application and infrastructure blueprints<br>- Monitoring | - User management in VMs<br>- Run tasks and workflows<br>- Centralize log management<br>- Secret management |

No easy alternatives but we shall continue evaluating the best possible options. Any potential changes would naturally happen with sufficient transition period, documentation, and training

**Comments welcome!**



Morpheus

Pros

- No change
- Facilitates entry level into cloud deployment for less-technical users

Cons

- Integration challenges
- User-friendliness issues

Horizon

Pros

- All priority features are fulfilled
- Common technology — easy to integrate with other clouds

Cons

- Migration required
- Changes in usage and documentation
- Basic functions more complicated to use for less-technical users

Alternative

Pros

- Potentially better usability than Horizons

Cons

- Unclear if there are suitable alternatives
- Changes in usage and documentation

EUROPEAN WEATHER CLOUD

# Small update to the Terms & Conditions

*Small updates to the EWC Terms and Conditions are planned to clarify tenants' responsibilities on their tenancies, used data, and software*

**The Tenancy Owners are ultimately responsible for all activities taking place within their Tenancy.** The Tenancy Users are responsible for properly using the EWC Services to **secure**, **protect** and **backup** their accounts.

**Access to the EWC** Services is restricted to a **Tenancy Owner** specifically authorised by the **Authorizing Officer** or a Tenancy User specifically authorised by a Tenancy Owner or another Tenancy User.

The Tenancy Owner and Tenancy User shall **implement**, in coordination with the European Weather Cloud Partners, the required **technical safeguards** to ensure that only those with a right to access the EWC Services can do so.

If the Tenancy Owner or Tenancy User becomes aware that their account is **compromised** or becomes aware of any non-permitted activity, they shall **inform** immediately the European Weather Cloud Partners through the [European Weather Cloud Support Portal](#).

**Users providing software, data and products shall retain ownership in the items provided**

The European Weather Cloud Partners reserve the right to **monitor** and screen on-going **aggregate activity** deemed to be incompliant with Terms and Conditions or otherwise unacceptable or inappropriate, be it for legal or other reasons. Non-compliance with these Terms and Conditions and any illegal or improper use of the EWC Services may lead to the immediate **suspension** of Tenancy

The **European Weather Cloud Partners shall bear no liabili**ty for any consequences, whether direct or indirect, arising from the use of the EWC Services except in the case of wilful misconduct or gross negligence.

https://confluence.ecmwf.int/display/EWCLOUDKB/Terms+and+Conditions+for+the+Use+of+European+Weather+Cloud+Operational+Service

EUROPEAN WEATHER CLOUD

# EWC Status Dashboard

## EWC User Workshop

18 September 2025

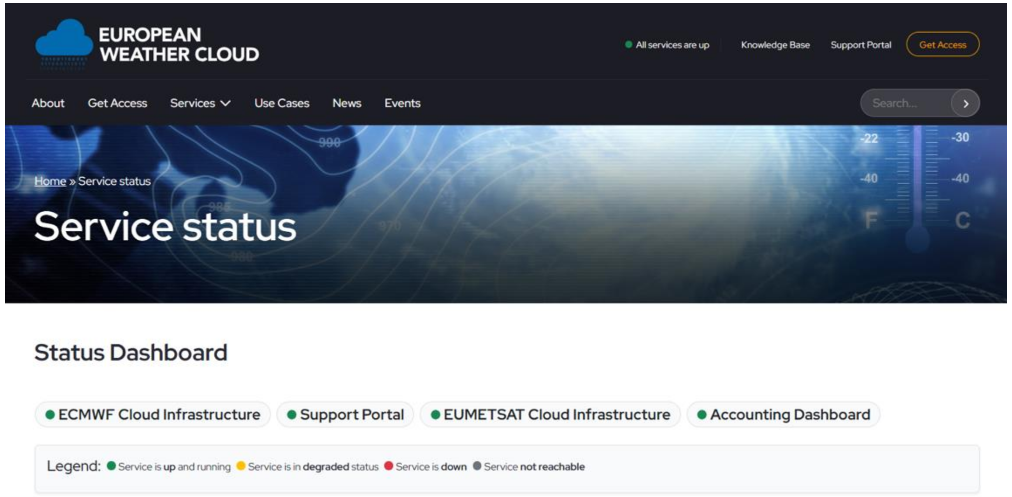
**Roberto Cuccu (ECMWF)**

# EWC Service Status page

In June 2025, a dedicated Service Status page has been introduced within the EWC Website meant to be the reference point for real time updates on the operational status of all EWC services.

With this new feature, users can :

- monitor live **service availability**
- consult timely **notifications** about any service disruptions
- stay informed about **scheduled system maintenance**



Home » Service status

Service status

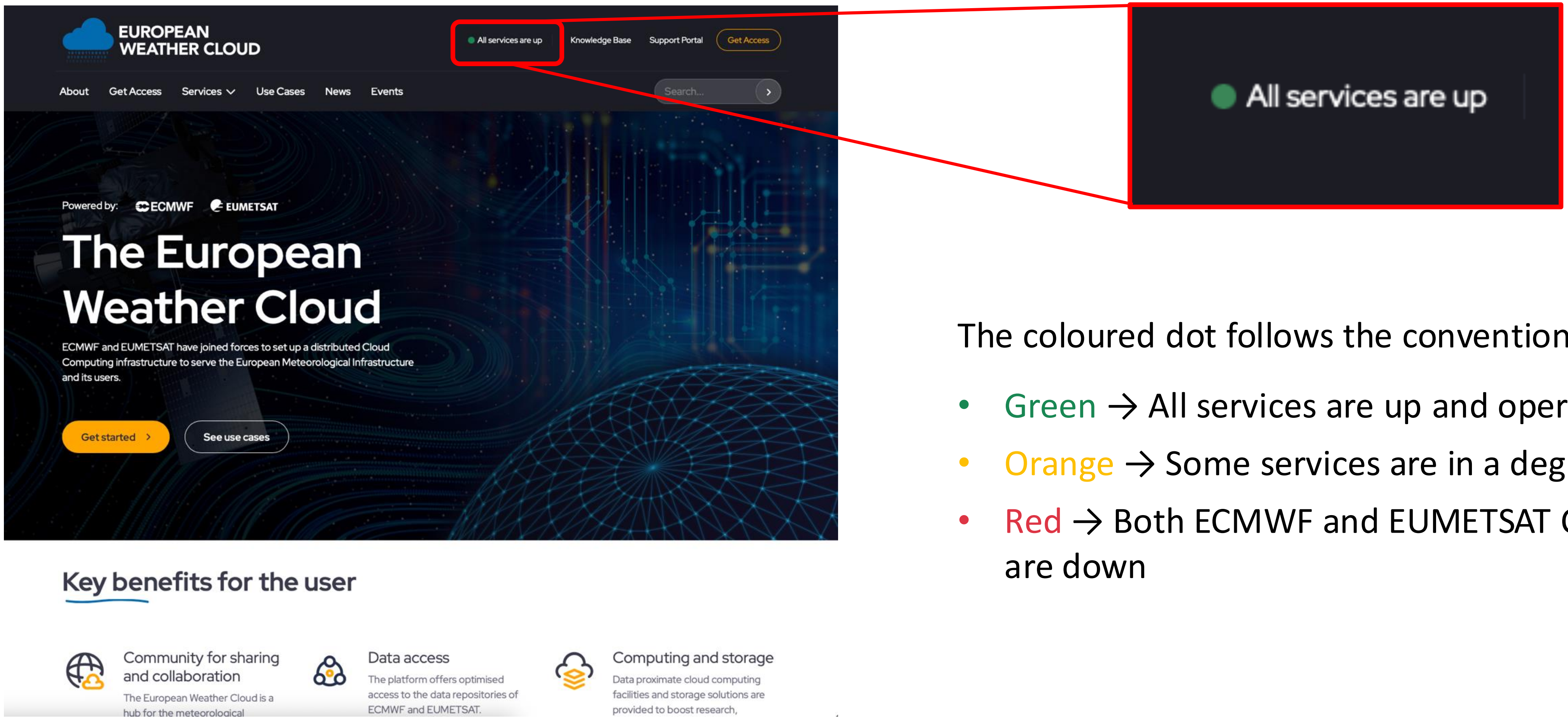
Status Dashboard

● ECMWF Cloud Infrastructure ● Support Portal ● EUMETSAT Cloud Infrastructure ● Accounting Dashboard

Legend: 🟢 Service is **up** and running 🟡 Service is in **degraded** status 🔴 Service is **down** ● Service **not reachable**

https://europeanweather.cloud/service-status

# EWC Service Status page



● All services are up

Knowledge Base

Support Portal

Get Access

About

Get Access

Services

Use Cases

News

Events

Search...

Powered by: ECMWF EUMETSAT

## The European Weather Cloud

ECMWF and EUMETSAT have joined forces to set up a distributed Cloud Computing infrastructure to serve the European Meteorological Infrastructure and its users.

Get started

See use cases

## Key benefits for the user

**Community for sharing and collaboration**

The European Weather Cloud is a hub for the meteorological

**Data access**

The platform offers optimised access to the data repositories of ECMWF and EUMETSAT.

**Computing and storage**

Data proximate cloud computing facilities and storage solutions are provided to boost research,

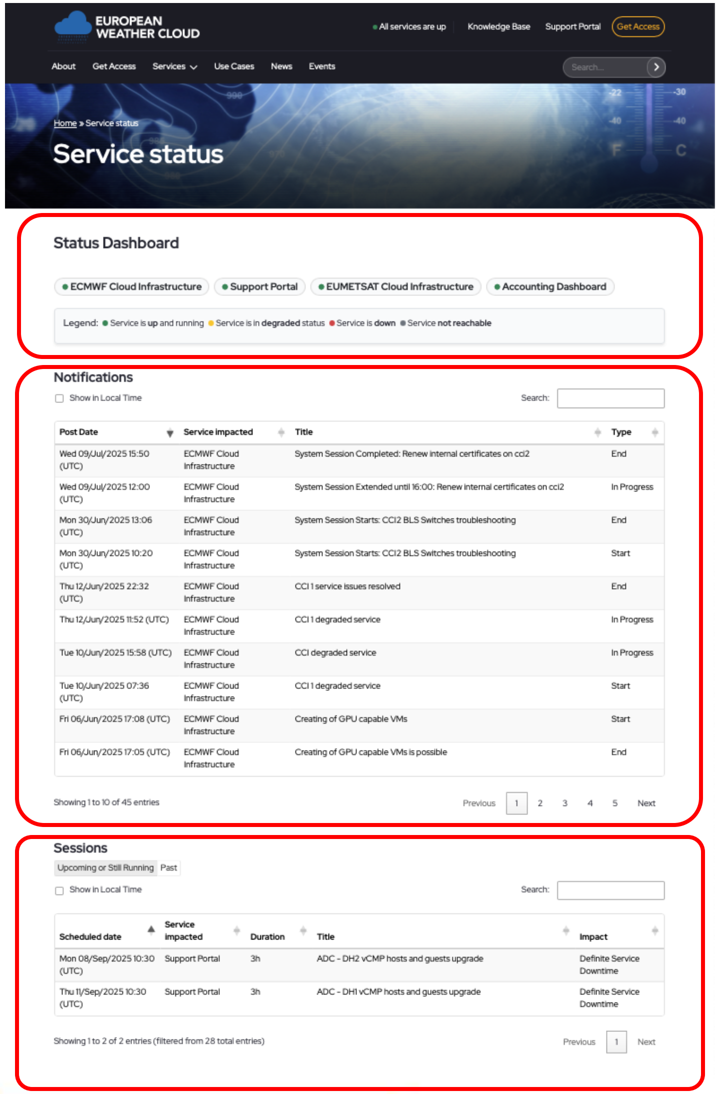
● All services are up

The coloured dot follows the convention:

- Green → All services are up and operational
- Orange → Some services are in a degraded status or down
- Red → Both ECMWF and EUMETSAT Cloud Infrastructures are down

# EWC Service Status page

https://europeanweather.cloud/service-status



EUROPEAN WEATHER CLOUD

● All services are up | Knowledge Base | Support Portal | Get Access

About | Get Access | Services | Use Cases | News | Events | Search...

Home » Service status

## Service status

### Status Dashboard

● ECMWF Cloud Infrastructure | ● Support Portal | ● EUMETSAT Cloud Infrastructure | ● Accounting Dashboard

Legend: 🟢 Service is **up** and running 🟡 Service is in **degraded** status 🔴 Service is **down** ● Service **not reachable**

### Notifications

□ Show in Local Time

Search:

| Post Date | Service impacted | Title | Type |
|---|---|---|---|
| Wed 09/Jul/2025 15:50 (UTC) | ECMWF Cloud Infrastructure | System Session Completed: Renew internal certificates on cci2 | End |
| Wed 09/Jul/2025 12:00 (UTC) | ECMWF Cloud Infrastructure | System Session Extended until 16:00: Renew internal certificates on cci2 | In Progress |
| Mon 30/Jun/2025 13:06 (UTC) | ECMWF Cloud Infrastructure | System Session Starts: CCI2 BLS Switches troubleshooting | End |
| Mon 30/Jun/2025 10:20 (UTC) | ECMWF Cloud Infrastructure | System Session Starts: CCI2 BLS Switches troubleshooting | Start |
| Thu 12/Jun/2025 22:32 (UTC) | ECMWF Cloud Infrastructure | CCI 1 service issues resolved | End |
| Thu 12/Jun/2025 11:52 (UTC) | ECMWF Cloud Infrastructure | CCI 1 degraded service | In Progress |
| Tue 10/Jun/2025 15:58 (UTC) | ECMWF Cloud Infrastructure | CCI degraded service | In Progress |
| Tue 10/Jun/2025 07:36 (UTC) | ECMWF Cloud Infrastructure | CCI 1 degraded service | Start |
| Fri 06/Jun/2025 17:08 (UTC) | ECMWF Cloud Infrastructure | Creating of GPU capable VMs | Start |
| Fri 06/Jun/2025 17:05 (UTC) | ECMWF Cloud Infrastructure | Creating of GPU capable VMs is possible | End |

Showing 1 to 10 of 45 entries

Previous 1 2 3 4 5 Next

### Sessions

Upcoming or Still Running | Past

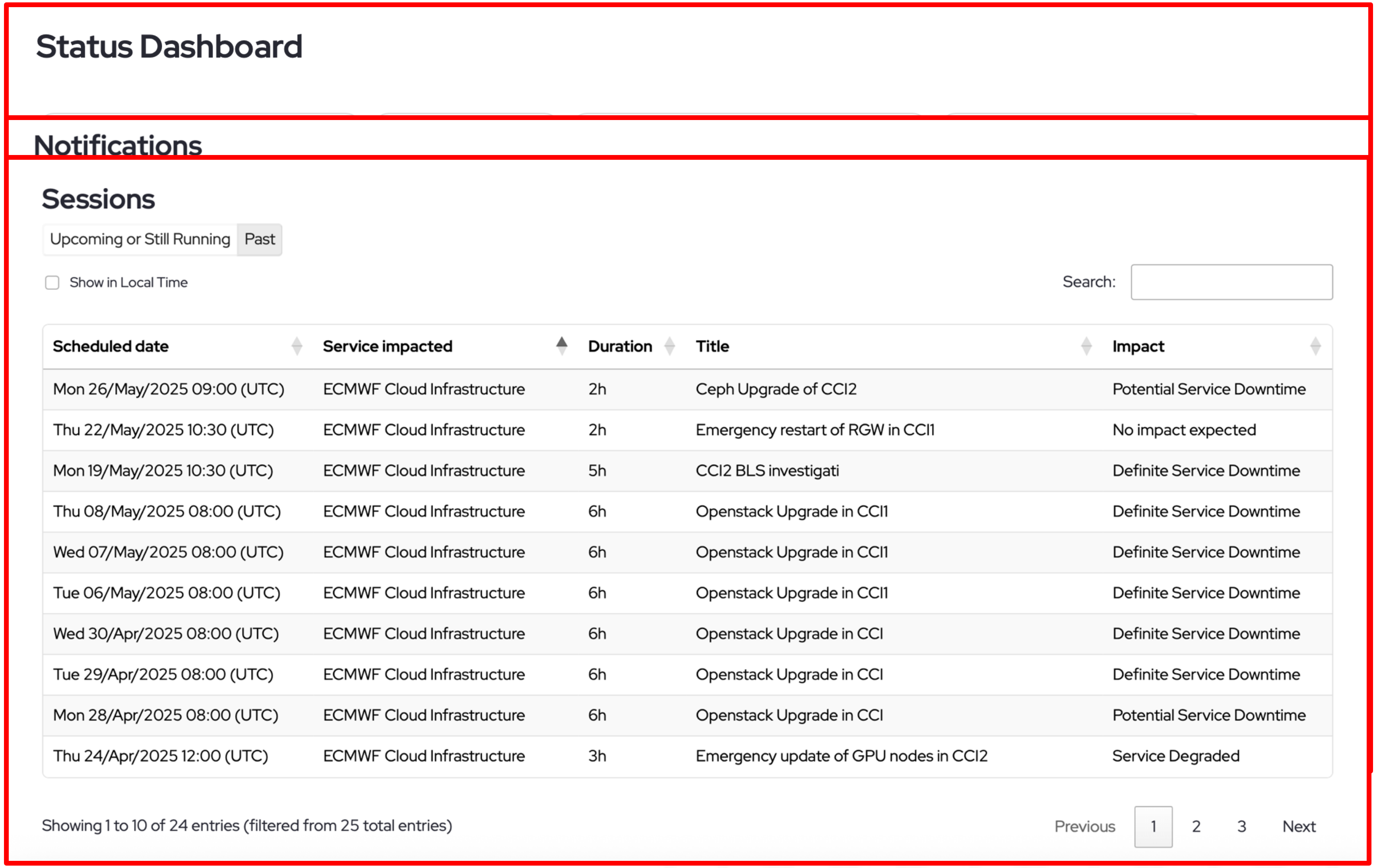
□ Show in Local Time

Search:

| Scheduled date | Service impacted | Duration | Title | Impact |
|---|---|---|---|---|
| Mon 08/Sep/2025 10:30 (UTC) | Support Portal | 3h | ADC - DH2 vCMP hosts and guests upgrade | Definite Service Downtime |
| Thu 11/Sep/2025 10:30 (UTC) | Support Portal | 3h | ADC - DH1 vCMP hosts and guests upgrade | Definite Service Downtime |

Showing 1 to 2 of 2 entries (filtered from 28 total entries)

Previous 1 Next



## Status Dashboard

## Notifications

## Sessions

Upcoming or Still Running | Past

□ Show in Local Time

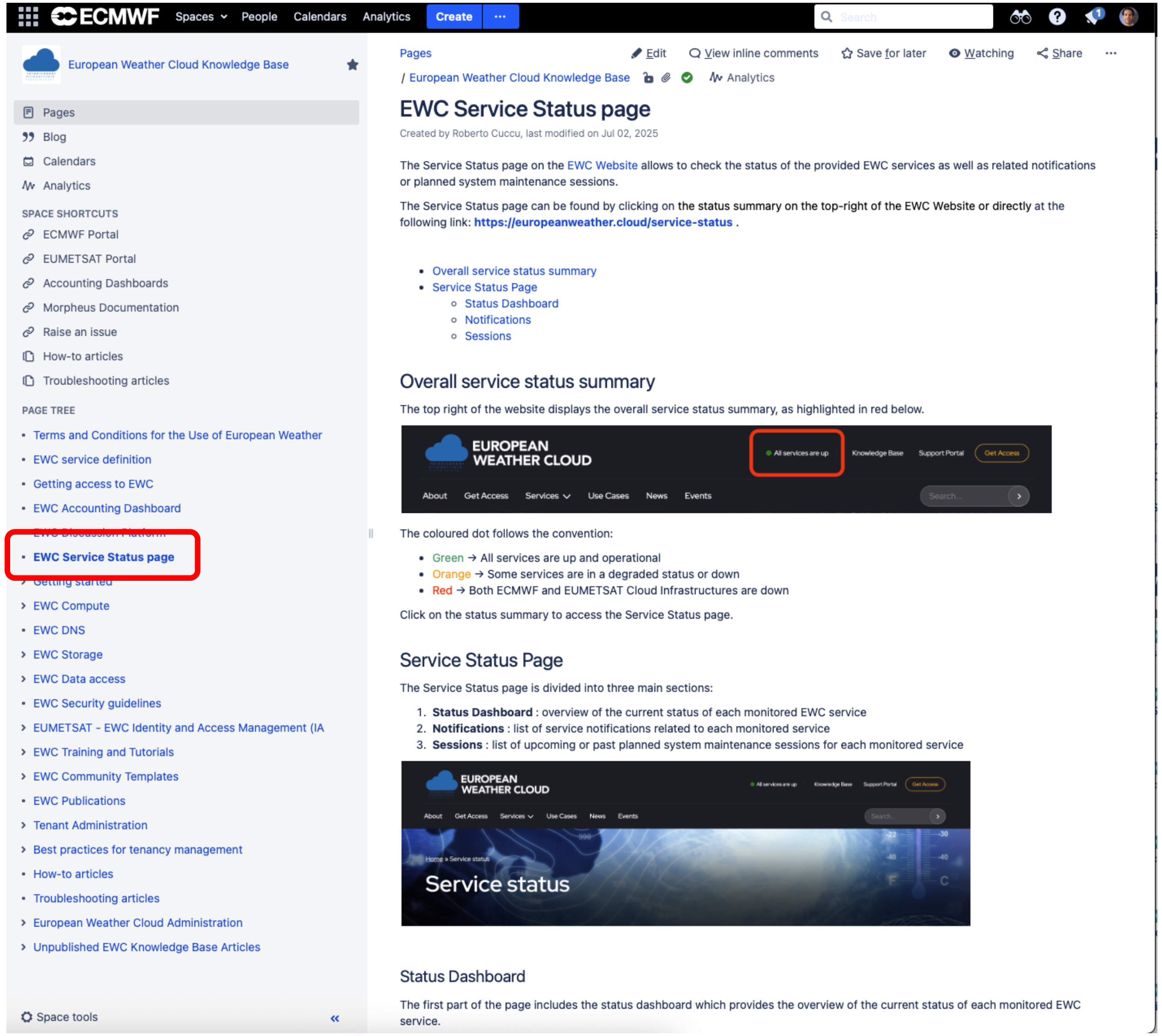
Search:

| Scheduled date | Service impacted | Duration | Title | Impact |
|---|---|---|---|---|
| Mon 26/May/2025 09:00 (UTC) | ECMWF Cloud Infrastructure | 2h | Ceph Upgrade of CCI2 | Potential Service Downtime |
| Thu 22/May/2025 10:30 (UTC) | ECMWF Cloud Infrastructure | 2h | Emergency restart of RGW in CCI1 | No impact expected |
| Mon 19/May/2025 10:30 (UTC) | ECMWF Cloud Infrastructure | 5h | CCI2 BLS investigati | Definite Service Downtime |
| Thu 08/May/2025 08:00 (UTC) | ECMWF Cloud Infrastructure | 6h | Openstack Upgrade in CCI1 | Definite Service Downtime |
| Wed 07/May/2025 08:00 (UTC) | ECMWF Cloud Infrastructure | 6h | Openstack Upgrade in CCI1 | Definite Service Downtime |
| Tue 06/May/2025 08:00 (UTC) | ECMWF Cloud Infrastructure | 6h | Openstack Upgrade in CCI1 | Definite Service Downtime |
| Wed 30/Apr/2025 08:00 (UTC) | ECMWF Cloud Infrastructure | 6h | Openstack Upgrade in CCI | Definite Service Downtime |
| Tue 29/Apr/2025 08:00 (UTC) | ECMWF Cloud Infrastructure | 6h | Openstack Upgrade in CCI | Definite Service Downtime |
| Mon 28/Apr/2025 08:00 (UTC) | ECMWF Cloud Infrastructure | 6h | Openstack Upgrade in CCI | Potential Service Downtime |
| Thu 24/Apr/2025 12:00 (UTC) | ECMWF Cloud Infrastructure | 3h | Emergency update of GPU nodes in CCI2 | Service Degraded |

Showing 1 to 10 of 24 entries (filtered from 25 total entries)

Previous 1 2 3 Next

# Status Dashboard



## EWC Service Status page

Created by Roberto Cuccu, last modified on Jul 02, 2025

The Service Status page on the EWC Website allows to check the status of the provided EWC services as well as related notifications or planned system maintenance sessions.

The Service Status page can be found by clicking on the status summary on the top-right of the EWC Website or directly at the following link: **https://europeanweather.cloud/service-status** .

- Overall service status summary
- Service Status Page
  - Status Dashboard
  - Notifications
  - Sessions

### Overall service status summary

The top right of the website displays the overall service status summary, as highlighted in red below.

The coloured dot follows the convention:

- Green → All services are up and operational
- Orange → Some services are in a degraded status or down
- Red → Both ECMWF and EUMETSAT Cloud Infrastructures are down

Click on the status summary to access the Service Status page.

### Service Status Page

The Service Status page is divided into three main sections:

1. **Status Dashboard** : overview of the current status of each monitored EWC service
2. **Notifications** : list of service notifications related to each monitored service
3. **Sessions** : list of upcoming or past planned system maintenance sessions for each monitored service

#### Status Dashboard

The first part of the page includes the status dashboard which provides the overview of the current status of each monitored EWC service.

More info in the EWC Knowledge Base documentation :

https://confluence.ecmwf.int/x/QCo_I

EUROPEAN
WEATHER CLOUD

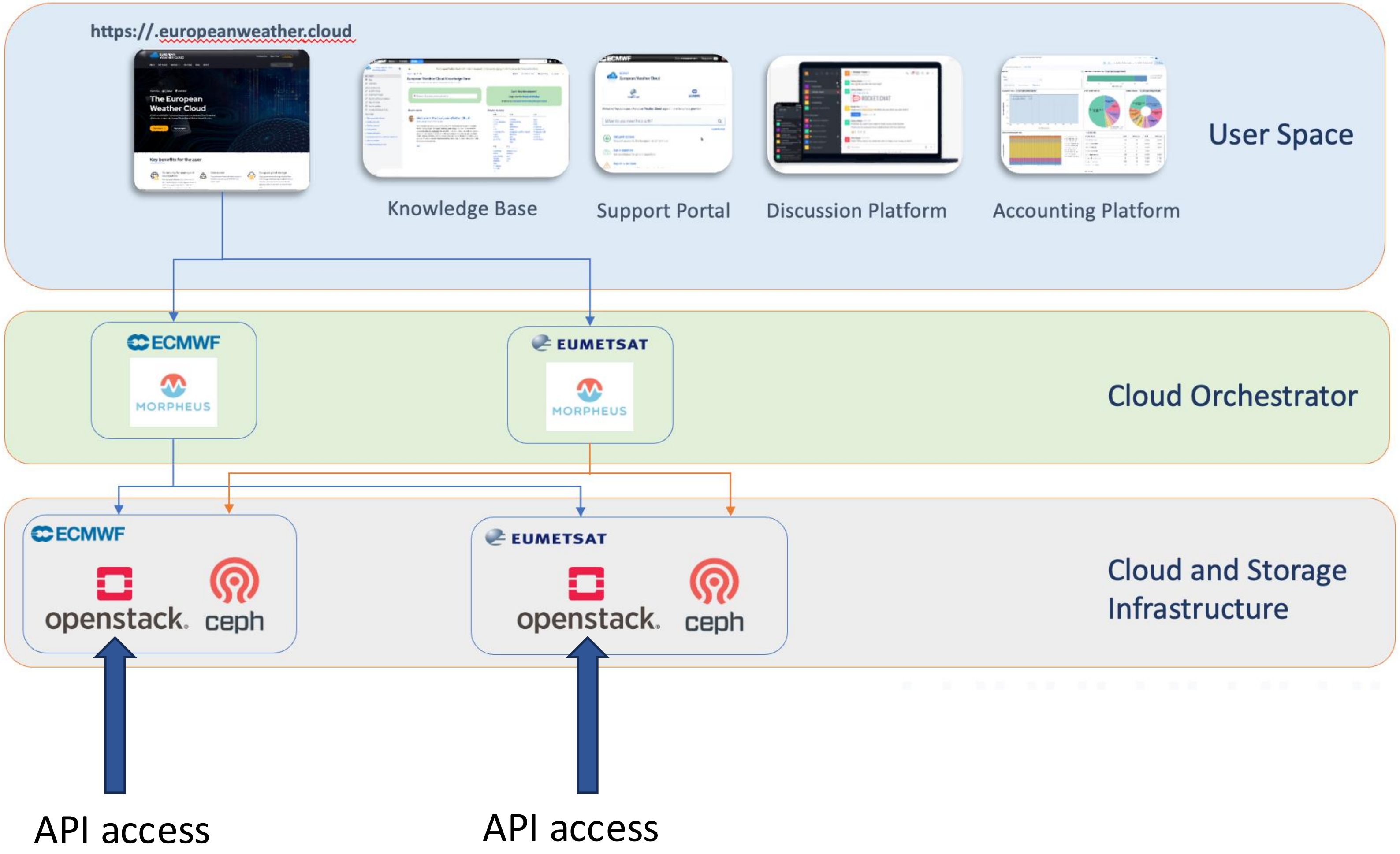
# Openstack API access

## EWC User Workshop

18 September 2025

**Roberto Cuccu (ECMWF)**

# Openstack API access

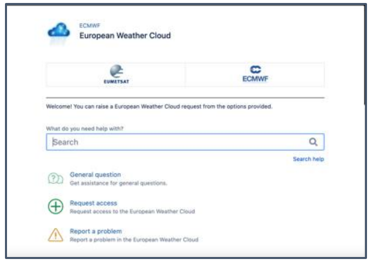


# Motivation for Openstack API access on EWC

- Automate the deployments
- Support to Infrastructure as Code
- Improve synergies and harmonization with other infrastructures

# How to request Openstack Application Credentials

**https://support.europeanweather.cloud**



ECMWF

European Weather Cloud

EUMETSAT | ECMWF

Welcome! You can raise a European Weather Cloud request from the options provided.

What do you need help with?

Search

Search help

General question
Get assistance for general questions.

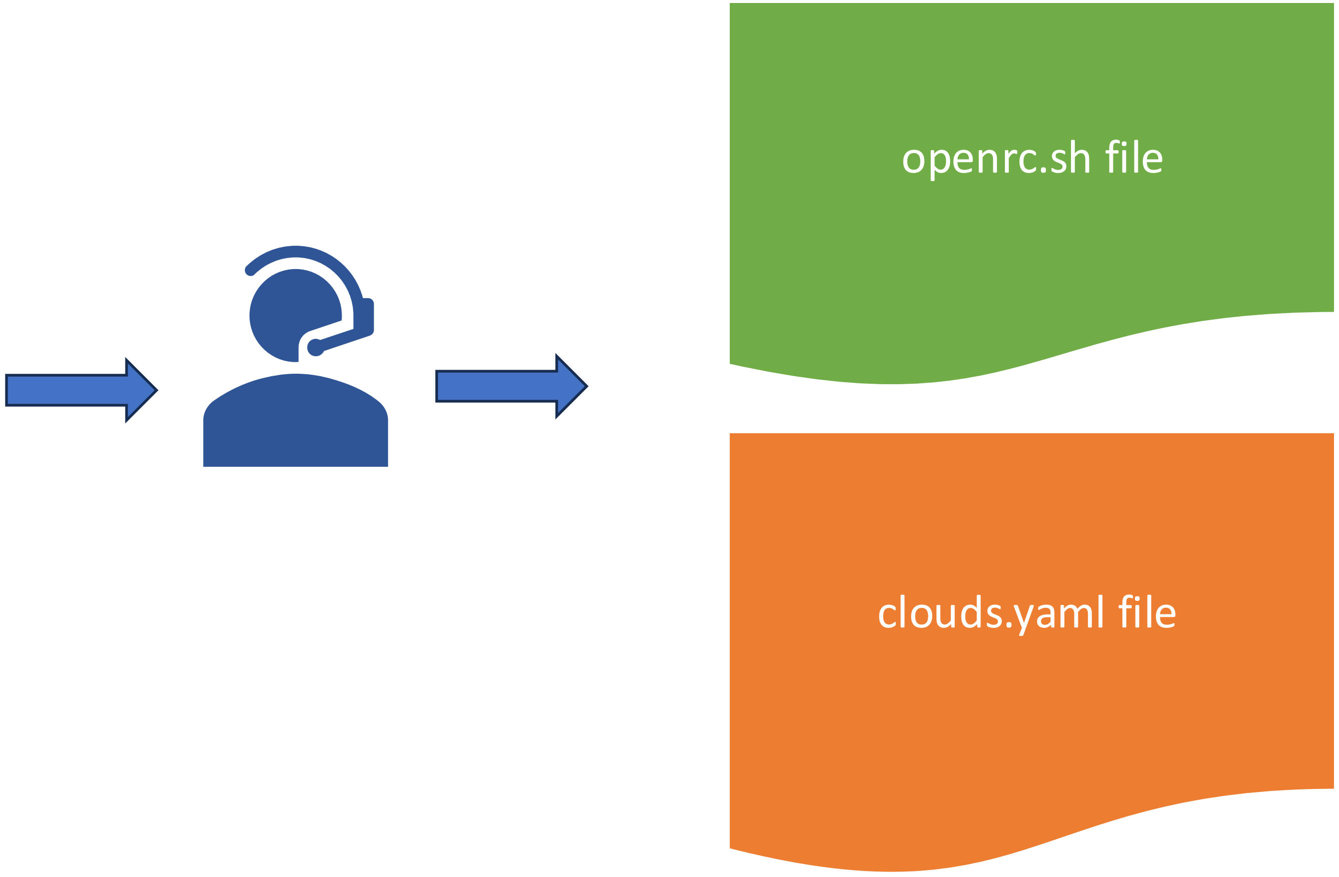
Request access
Request access to the European Weather Cloud

Report a problem
Report a problem in the European Weather Cloud

## Openstack App Credentials Request

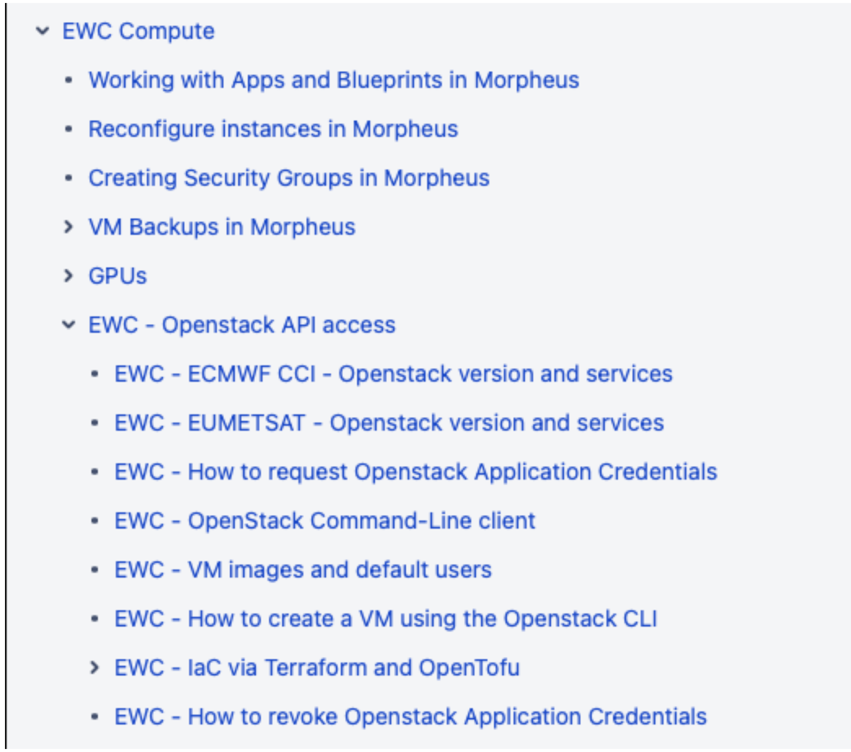
Description including:

- Tenancy Name (e.g.  ms-nmhs-project )
- Scope and description of use
- Owner (if different from the requestor)
- Any other relevant note



# Documentation and Training

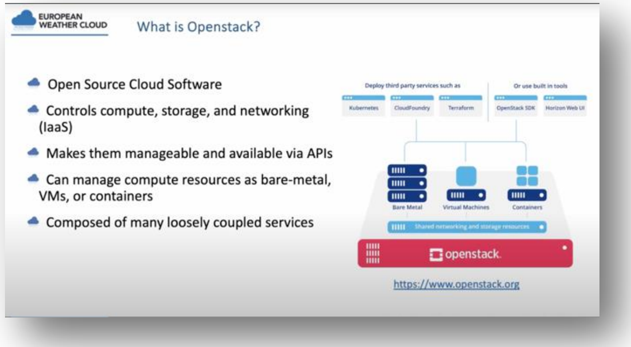
## EWC Knowledge Base



- EWC Compute
  - Working with Apps and Blueprints in Morpheus
  - Reconfigure instances in Morpheus
  - Creating Security Groups in Morpheus
  - VM Backups in Morpheus
  - GPUs
  - EWC - Openstack API access
    - EWC - ECMWF CCI - Openstack version and services
    - EWC - EUMETSAT - Openstack version and services
    - EWC - How to request Openstack Application Credentials
    - EWC - OpenStack Command-Line client
    - EWC - VM images and default users
    - EWC - How to create a VM using the Openstack CLI
    - EWC - IaC via Terraform and OpenTofu
    - EWC - How to revoke Openstack Application Credentials

https://confluence.ecmwf.int/x/TCRNH

## Training Webinars



EUROPEAN WEATHER CLOUD

What is Openstack?

- Open Source Cloud Software
- Controls compute, storage, and networking (IaaS)
- Makes them manageable and available via APIs
- Can manage compute resources as bare-metal, VMs, or containers
- Composed of many loosely coupled services

https://www.openstack.org

*Introduction to Openstack API access and usage in EWC*

EUROPEAN WEATHER CLOUD

Demo time!

- Connect to OpenStack in ECMWF
- Create a VM with OpenTofu
- Install MARS client on it with Ansible
- Do the same on EUMETSAT!

*OpenStack Infrastructure as Code in the EWC*

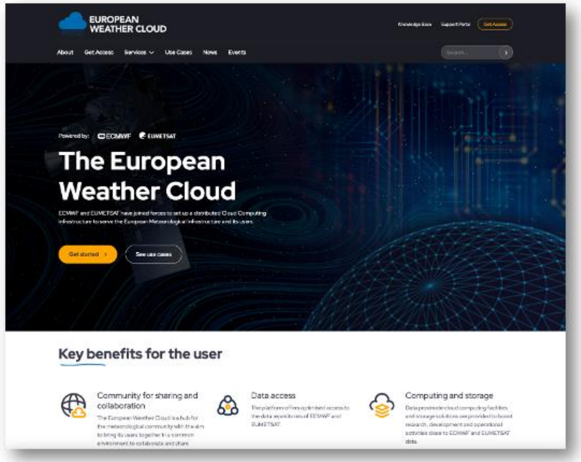
https://confluence.ecmwf.int/x/-xO2G

EUROPEAN
WEATHER CLOUD

# THANKS!

# Contacts and references

https://europeanweather.cloud



EUROPEAN WEATHER CLOUD

Knowledge Base Support Portal Get Access

About Get Access Services Use Cases News Events

Powered by: ECMWF EUMETSAT

The European Weather Cloud

ECMWF and EUMETSAT have joined forces to set up a distributed Cloud Computing infrastructure to serve the European Meteorological Infrastructure and its users.

Get started › See use cases

Key benefits for the user

Community for sharing and collaboration

The European Weather Cloud is a hub for the meteorological community with the aim to bring its users together in a common environment to collaborate and share

Data access

The platform offers optimised access to the data repositories of ECMWF and EUMETSAT.

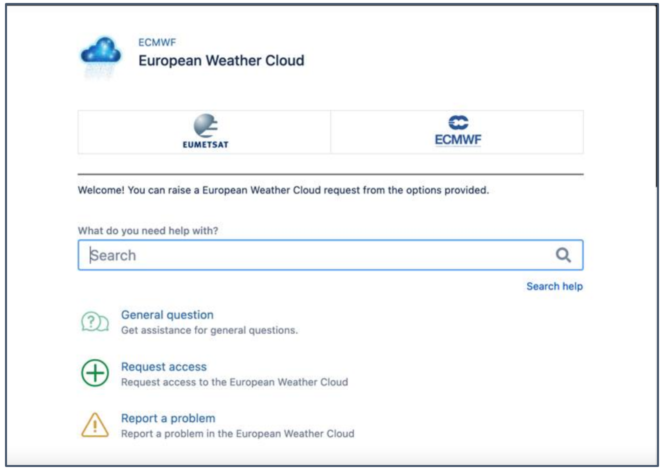
Computing and storage

Data-proximate cloud computing facilities and storage solutions are provided to boost research, development and operational activities close to ECMWF and EUMETSAT data.

https://chat.europeanweather.cloud

https://support.europeanweather.cloud

[Support Portal](https://support.europeanweather.cloud)



ECMWF
European Weather Cloud

EUMETSAT | ECMWF

Welcome! You can raise a European Weather Cloud request from the options provided.

What do you need help with?

Search

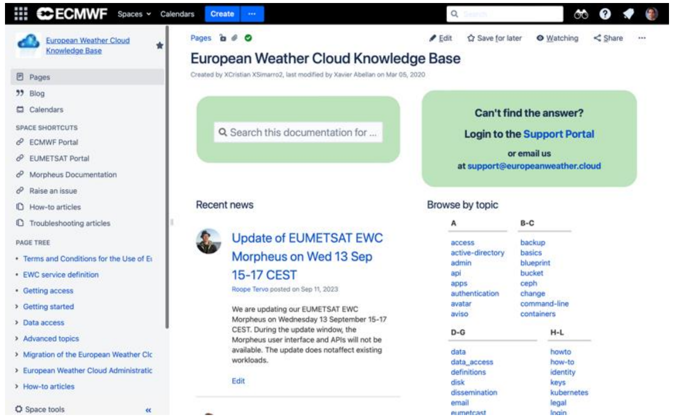
Search help

General question
Get assistance for general questions.

Request access
Request access to the European Weather Cloud

Report a problem
Report a problem in the European Weather Cloud

[Knowledge Base]()



ECMWF Spaces Calendars Create ···

European Weather Cloud Knowledge Base

- Pages
- Blog
- Calendars

SPACE SHORTCUTS

- ECMWF Portal
- EUMETSAT Portal
- Morpheus Documentation
- Raise an issue
- How-to articles
- Troubleshooting articles

PAGE TREE

- Terms and Conditions for the Use of E
- EWC service definition
- Getting access
- Getting started
- Data access
- Advanced topics
- Migration of the European Weather Clc
- European Weather Cloud Administratic
- How-to articles

Space tools

Pages Edit Save for later Watching Share

European Weather Cloud Knowledge Base

Created by XCristian XSimarro2, last modified by Xavier Abellan on Mar 05, 2020

Search this documentation for ...

Can't find the answer?
Login to the Support Portal
or email us
at support@europeanweather.cloud

Recent news

Update of EUMETSAT EWC Morpheus on Wed 13 Sep 15-17 CEST

Roope Tervo posted on Sep 11, 2023

We are updating our EUMETSAT EWC Morpheus on Wednesday 13 September 15-17 CEST. During the update window, the Morpheus user interface and APIs will not be available. The update does notaffect existing workloads.

Edit

Browse by topic

| A | B-C |
|---|---|
| access | backup |
| active-directory | basics |
| admin | blueprint |
| api | bucket |
| apps | ceph |
| authentication | change |
| avatar | command-line |
| aviso | containers |

| D-G | H-L |
|---|---|
| data | howto |
| data_access | how-to |
| definitions | identity |
| disk | keys |
| dissemination | kubernetes |
| email | legal |
| eumetcast | login |

EUROPEAN
WEATHER CLOUD

# EWC Community Hub

**8th EWC User Workshop (hybrid), 18th September 2025**

**Samuel Langlois (ECMWF)**
**Francesco Murdaca (EUMETSAT)**

# Agenda

- EWC Community Hub
  - Definition and Goals
  - Target Users and Roles
  - Type of items, Item Metadata and how to create an item
  - How to contribute with your item

- EWC Community Hub Dashboard
  - Description
  - Features (search, filters, metadata)

- Deploying EWC Community Hub items
  - Ansible
  - Terraform
  - CLI

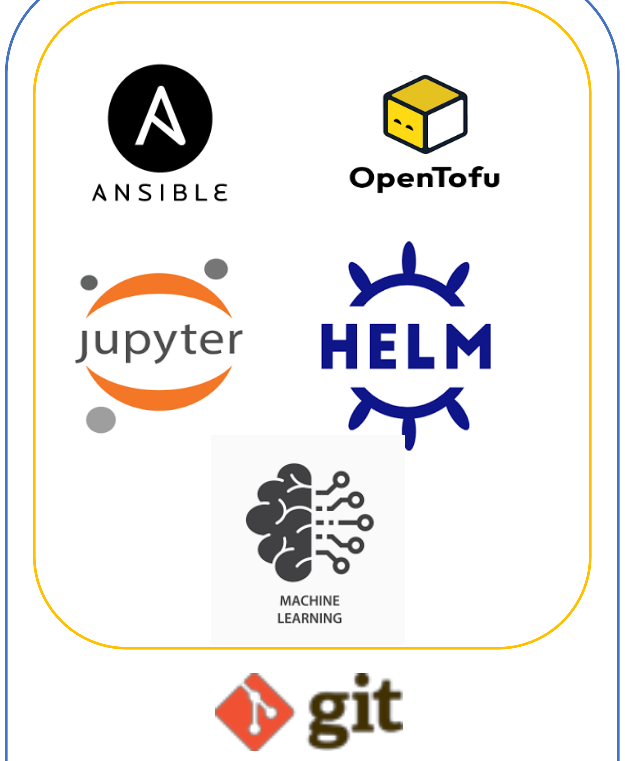
~~Marketplace~~

EWC Community Hub

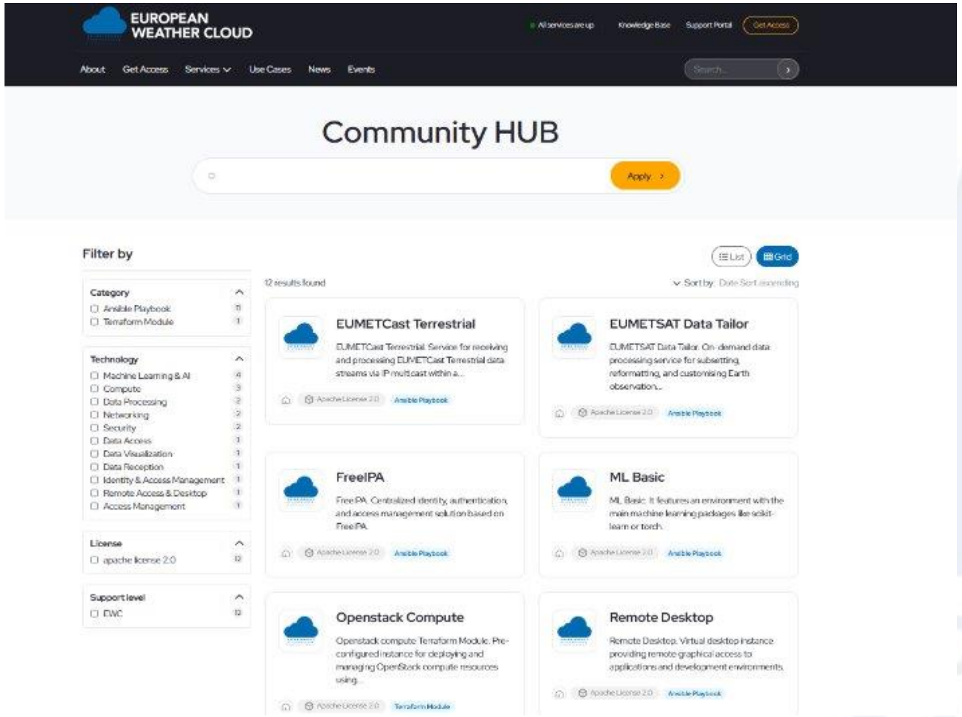
# EWC Community Hub

As with the whole EWC, using the service does not affect IPRs

The European Weather Cloud (EWC) **Community Hub** wants to provide users with a **centralized platform where users can discover, evaluate, select and deploy items and services** for the European Meteorological Community.



**Community Items**



EUROPEAN WEATHER CLOUD

All services are up | Knowledge Base | Support Portal | Get Access

About | Get Access | Services | Use Cases | News | Events | Search...

Community HUB

Apply

Filter by

List | Grid

12 results found

Sort by: Date Sort ascending

Category
- □ Ansible Playbook 11
- □ Terraform Module 1

Technology
- □ Machine Learning & AI 4
- □ Compute 3
- □ Data Processing 2
- □ Networking 2
- □ Security 2
- □ Data Access 1
- □ Data Visualization 1
- □ Data Reception 1
- □ Identity & Access Management 1
- □ Remote Access & Desktop 1
- □ Access Management 1

License
- □ apache license 2.0 12

Support level
- □ EWC 12

**EUMETCast Terrestrial**
EUMETCast Terrestrial. Service for receiving and processing EUMETCast Terrestrial data streams via IP multicast within a...
Apache License 2.0 | Ansible Playbook

**EUMETSAT Data Tailor**
EUMETSAT Data Tailor. On-demand data processing service for subsetting, reformatting, and customising Earth observation...
Apache License 2.0 | Ansible Playbook

**FreeIPA**
FreeIPA. Centralized identity, authentication, and access management solution based on FreeIPA.
Apache License 2.0 | Ansible Playbook

**ML Basic**
ML Basic. It features an environment with the main machine learning packages like scikit-learn or torch.
Apache License 2.0 | Ansible Playbook

**Openstack Compute**
Openstack compute Terraform Module. Pre-configured instance for deploying and managing OpenStack compute resources using...
Apache License 2.0 | Terraform Module

**Remote Desktop**
Remote Desktop. Virtual desktop instance providing remote graphical access to applications and development environments.
Apache License 2.0 | Ansible Playbook

**Dashboard**

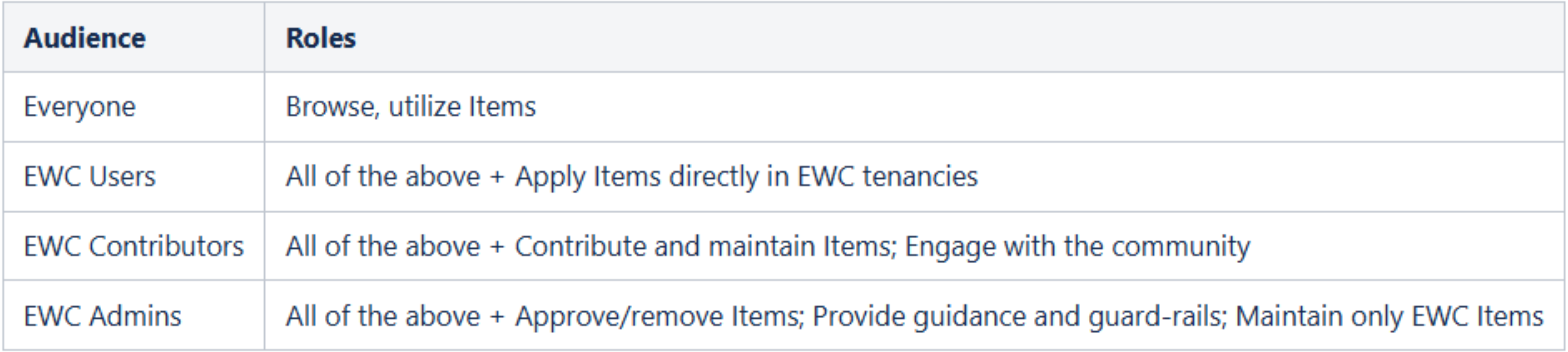
- Ansible
- OpenTofu/Terraform
- Helm Charts
- EWC CLI python package
- …

**Tooling & Documentation**

# Goals

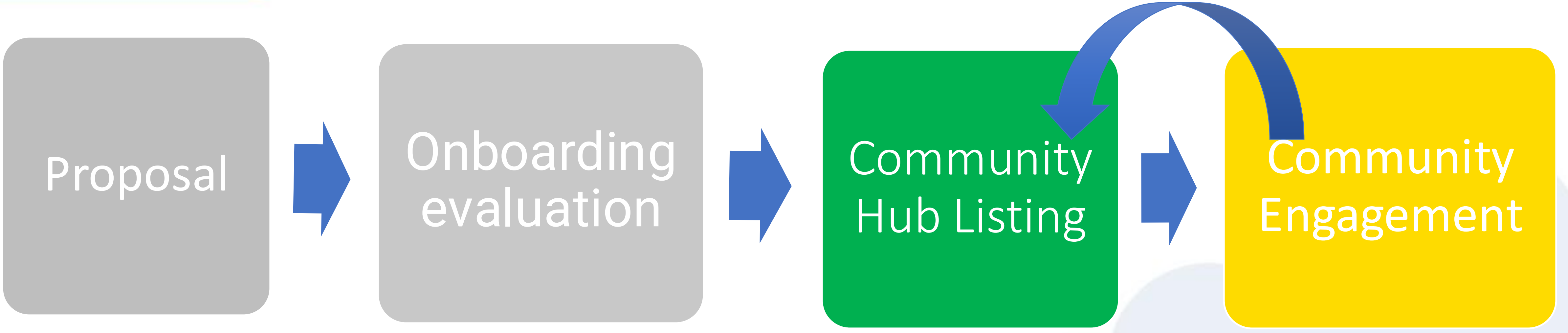
- **Engagement and collaboration**: Foster collaboration among EWC users  of EUMETSAT & ECMWF Member and Co-Operating States.
- **Improve usability**: Cloud technologies tailored for meteorological applications.
- **Reduce redundant effort**: Reuseable and community-vetted Items that help you avoid redundant development.
- **Foster learning**: Practical examples and self-training on cloud technologies or exploration of use-cases that run natively in the EWC.
- **Turn legacy software into cloud-compatible solutions**: Existing software turned into cloud-native tools, through shared contributions.

# Target Users and Roles



| Audience | Roles |
|---|---|
| Everyone | Browse, utilize Items |
| EWC Users | All of the above + Apply Items directly in EWC tenancies |
| EWC Contributors | All of the above + Contribute and maintain Items; Engage with the community |
| EWC Admins | All of the above + Approve/remove Items; Provide guidance and guard-rails; Maintain only EWC Items |

# Adding a new item to the EWC Community Hub


Proposal

Onboarding evaluation

Community Hub Listing

Community Engagement

**Contributor**

**EWC users that have account**

**EWC staff**

**Contributions needs to be checked for required metadata. They need to have:**

- **Name and description**
- **License**
- **Owner**
- **Indication of planned support level**

**EWC staff**

**Accept the proposal**

**EWC staff**

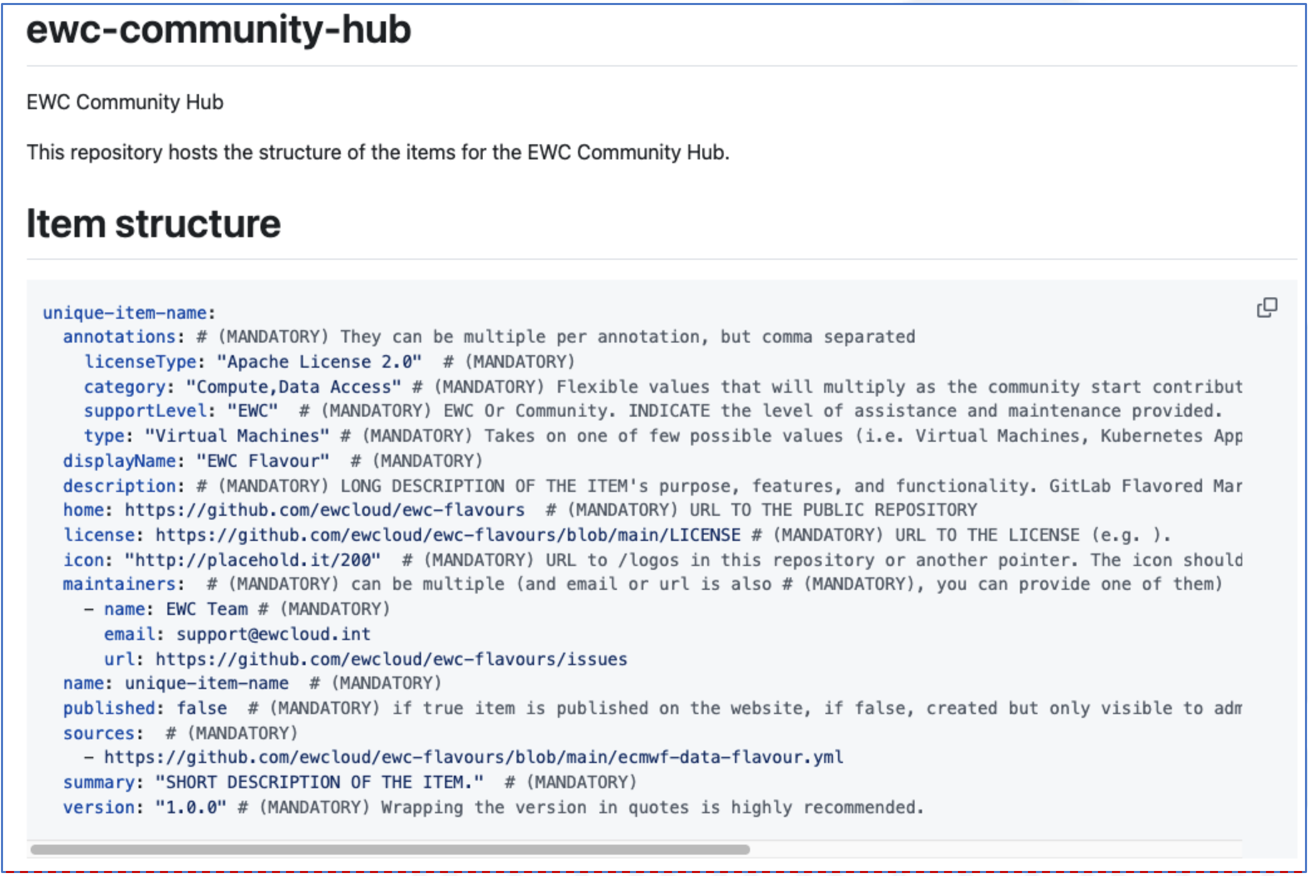
- **Handle feedback**
- **Monitor**

**Contributor**

- **Provide Support**
- **Handle feedback**
- **Update**

# Creating a new item (Pull Request)

- Fork the GitHub repository https://github.com/ewcloud/ewc-community-hub
- Specify the metadata
- Propose it
- 🎉



## ewc-community-hub

EWC Community Hub

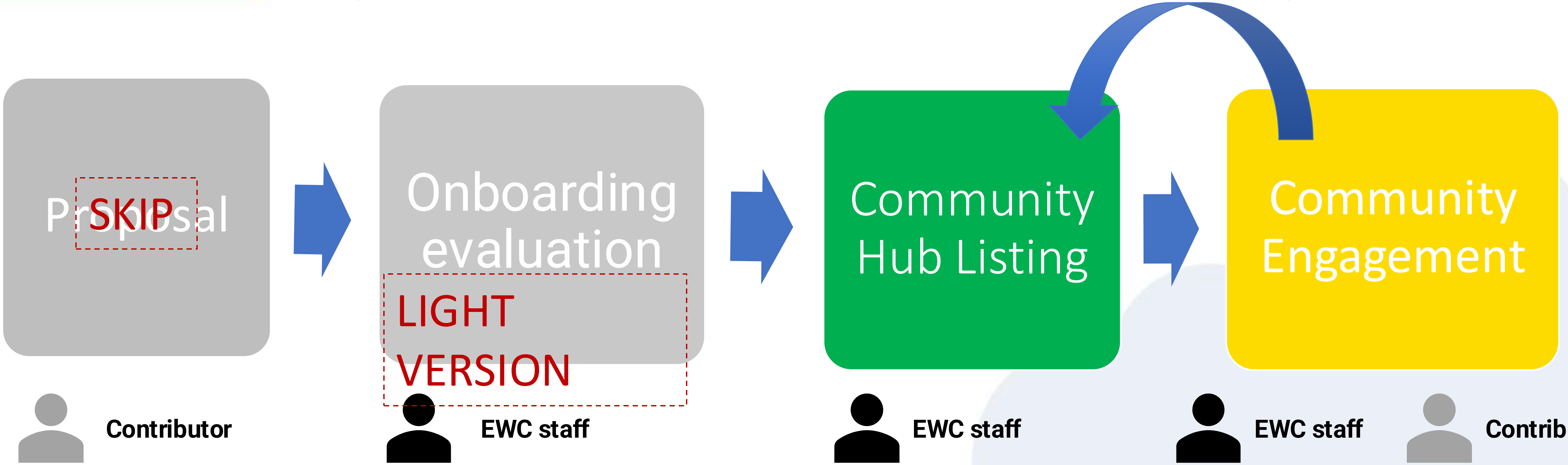
This repository hosts the structure of the items for the EWC Community Hub.

## Item structure

```yaml
unique-item-name:
  annotations: # (MANDATORY) They can be multiple per annotation, but comma separated
    licenseType: "Apache License 2.0"  # (MANDATORY)
    category: "Compute,Data Access" # (MANDATORY) Flexible values that will multiply as the community start contribut
    supportLevel: "EWC"  # (MANDATORY) EWC Or Community. INDICATE the level of assistance and maintenance provided.
    type: "Virtual Machines" # (MANDATORY) Takes on one of few possible values (i.e. Virtual Machines, Kubernetes App
  displayName: "EWC Flavour"  # (MANDATORY)
  description: # (MANDATORY) LONG DESCRIPTION OF THE ITEM's purpose, features, and functionality. GitLab Flavored Mar
  home: https://github.com/ewcloud/ewc-flavours  # (MANDATORY) URL TO THE PUBLIC REPOSITORY
  license: https://github.com/ewcloud/ewc-flavours/blob/main/LICENSE # (MANDATORY) URL TO THE LICENSE (e.g. ).
  icon: "http://placehold.it/200"  # (MANDATORY) URL to /logos in this repository or another pointer. The icon should
  maintainers:  # (MANDATORY) can be multiple (and email or url is also # (MANDATORY), you can provide one of them)
    - name: EWC Team # (MANDATORY)
      email: support@ewcloud.int
      url: https://github.com/ewcloud/ewc-flavours/issues
  name: unique-item-name  # (MANDATORY)
  published: false  # (MANDATORY) if true item is published on the website, if false, created but only visible to adm
  sources:  # (MANDATORY)
    - https://github.com/ewcloud/ewc-flavours/blob/main/ecmwf-data-flavour.yml
  summary: "SHORT DESCRIPTION OF THE ITEM."  # (MANDATORY)
  version: "1.0.0" # (MANDATORY) Wrapping the version in quotes is highly recommended.
```

If you are not familiar with GitHub, you can open a ticket, EWC team will support!

# Update an item in the EWC Community Hub



**Contributor**

**EWC users that have account**

**EWC staff**

**Contributions needs to be checked for required metadata. They need to have:**

- **Name and description**
- **License**
- **Owner**
- **Indication of planned support level**

**EWC staff**

**Accept the proposal**

**EWC staff**

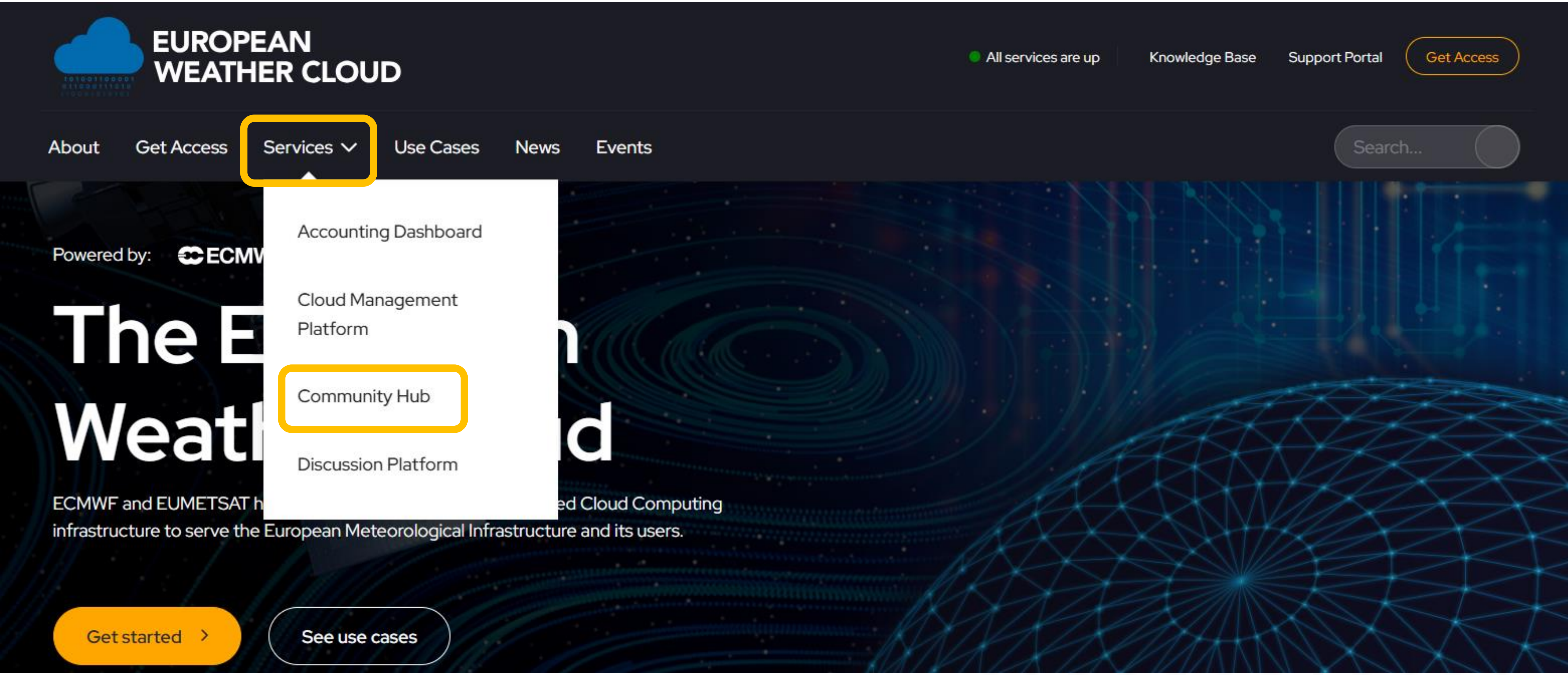
- **Handle feedback**
- **Monitor**

**Contributor**

- **Provide Support**
- **Handle feedback**
- **Update**

# EWC Community Hub Dashboard

# Community Hub in the EWC website



All services are up | Knowledge Base | Support Portal | Get Access

About | Get Access | Services | Use Cases | News | Events | Search...

Accounting Dashboard

Cloud Management Platform

Community Hub

Discussion Platform

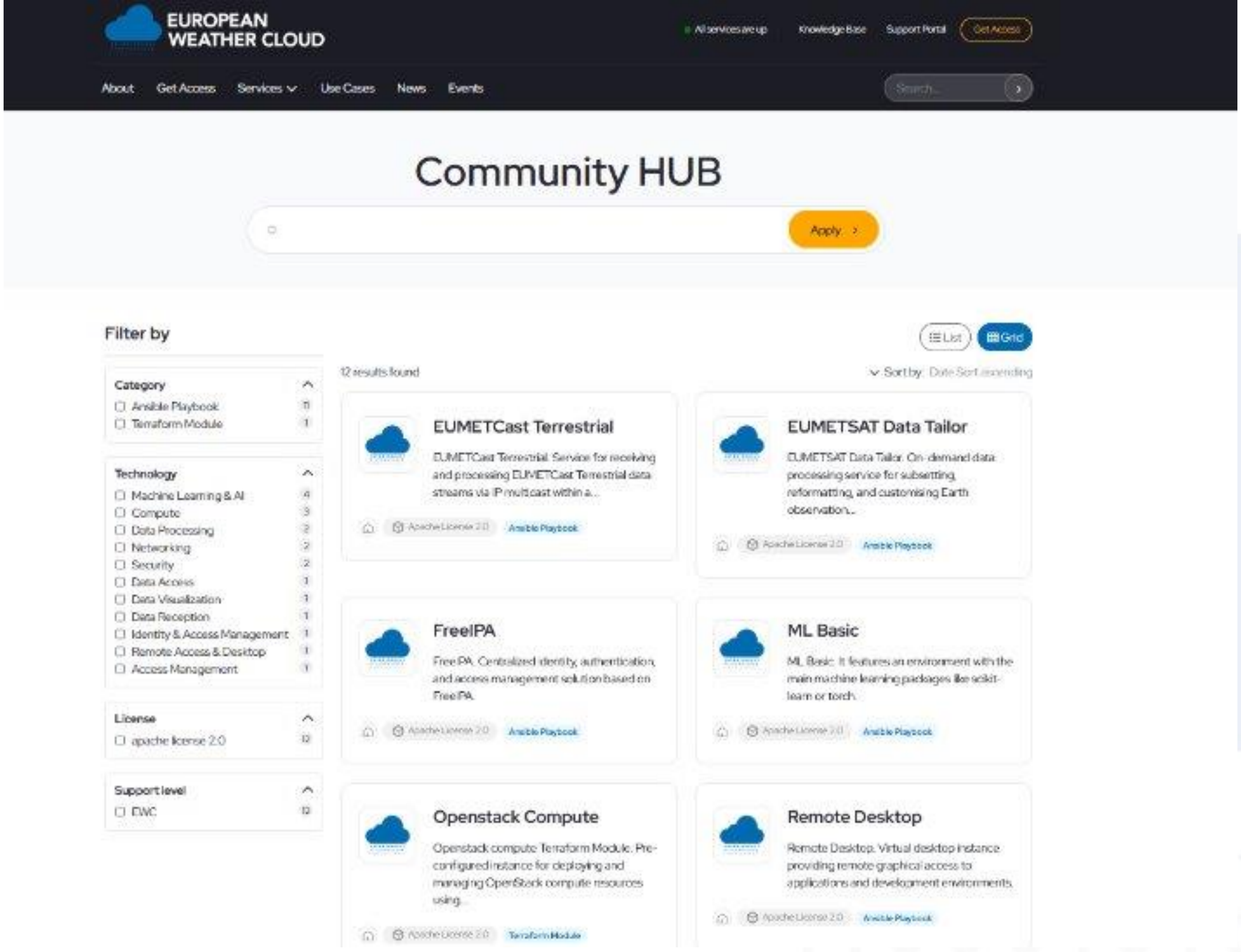
Powered by: ECMW

The E... n Weat... d

ECMWF and EUMETSAT h... ed Cloud Computing infrastructure to serve the European Meteorological Infrastructure and its users.

Get started >

See use cases



# Community HUB

Filter by

| | |
|---|---|
| **Category** | |
| □ Ansible Playbook | 11 |
| □ Terraform Module | 1 |
| **Technology** | |
| □ Machine Learning & AI | 4 |
| □ Compute | 3 |
| □ Data Processing | 2 |
| □ Networking | 2 |
| □ Security | 2 |
| □ Data Access | 1 |
| □ Data Visualization | 1 |
| □ Data Reception | 1 |
| □ Identity & Access Management | 1 |
| □ Remote Access & Desktop | 1 |
| □ Access Management | 1 |
| **License** | |
| □ apache license 2.0 | 12 |
| **Support level** | |
| □ EWC | 12 |

12 results found

Sort by: Date Sort ascending

### EUMETCast Terrestrial

EUMETCast Terrestrial. Service for receiving and processing EUMETCast Terrestrial data streams via IP multicast within a...

Apache License 2.0 · Ansible Playbook

### EUMETSAT Data Tailor

EUMETSAT Data Tailor. On-demand data processing service for subsetting, reformatting, and customising Earth observation...

Apache License 2.0 · Ansible Playbook

### FreeIPA

Free IPA. Centralized identity, authentication, and access management solution based on FreeIPA.

Apache License 2.0 · Ansible Playbook

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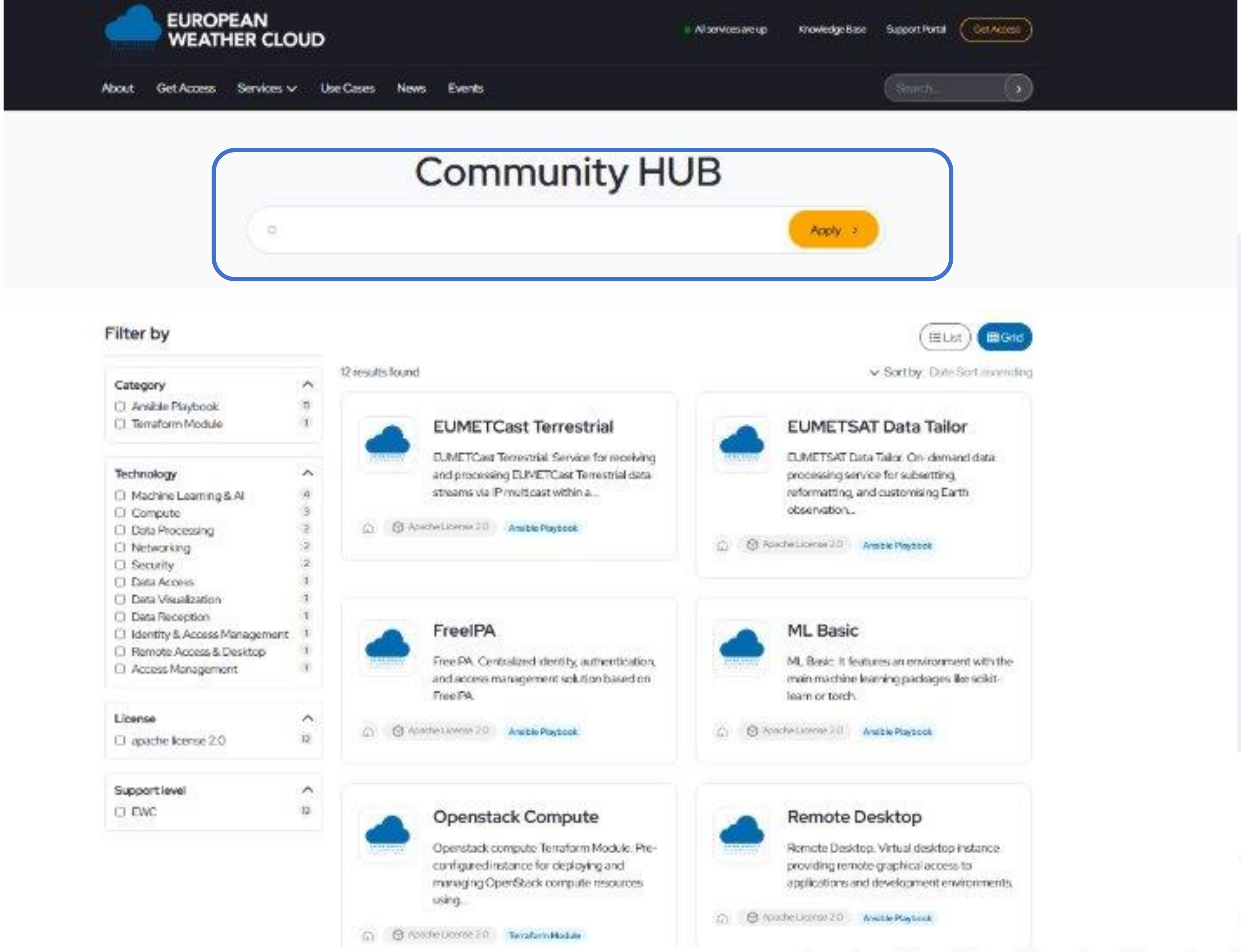

# Community HUB

Filter by

12 results found

Sort by: Date Sort ascending

**Category**

- □ Ansible Playbook 11
- □ Terraform Module 1

**Technology**

- □ Machine Learning & AI 4
- □ Compute 3
- □ Data Processing 2
- □ Networking 2
- □ Security 2
- □ Data Access 1
- □ Data Visualization 1
- □ Data Reception 1
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**License**

- □ apache license 2.0 12

**Support level**

- □ EWC 12

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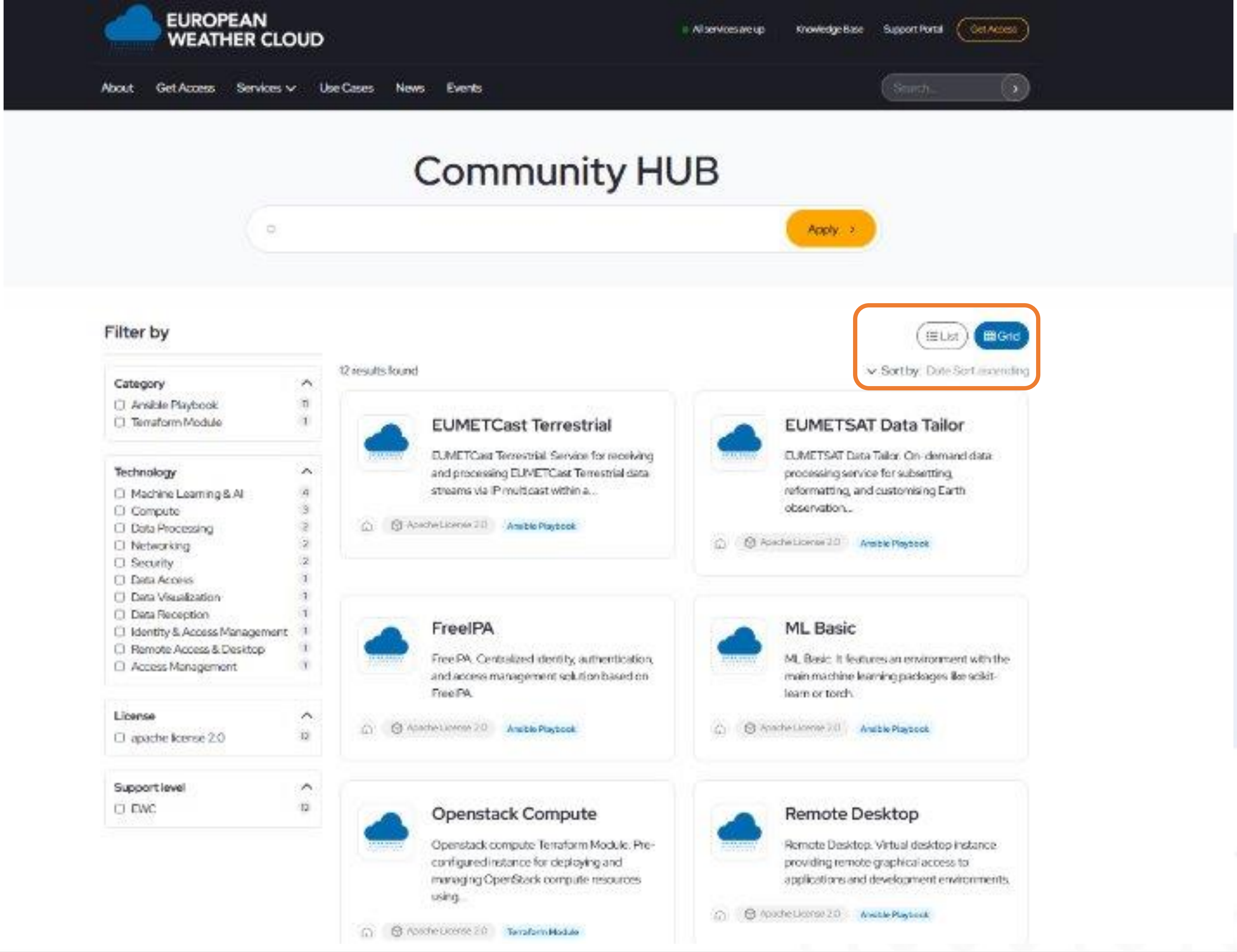

# Community HUB

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| Category | |
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| □ Ansible Playbook | 11 |
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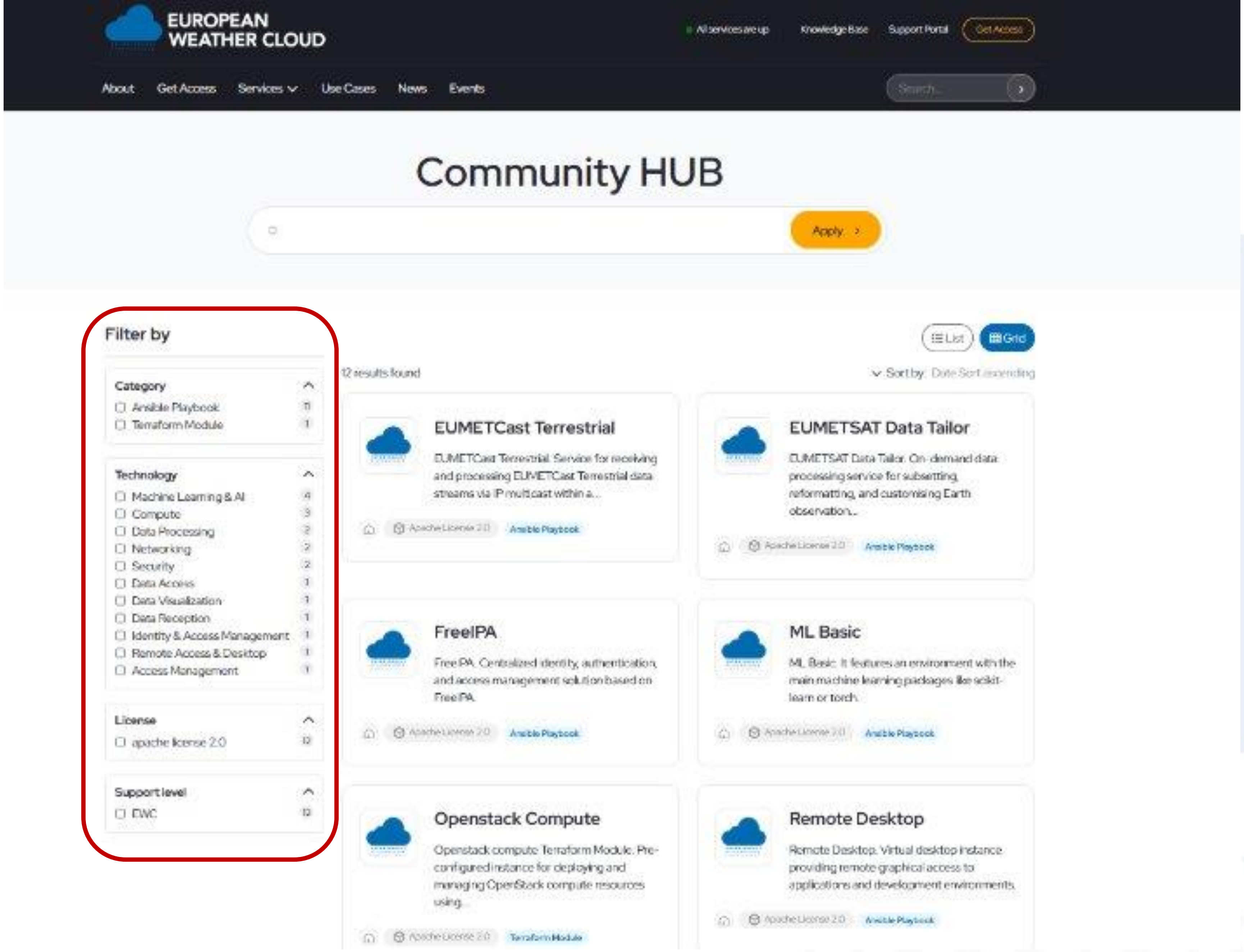

# Community HUB

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**Category**

- □ Ansible Playbook 11
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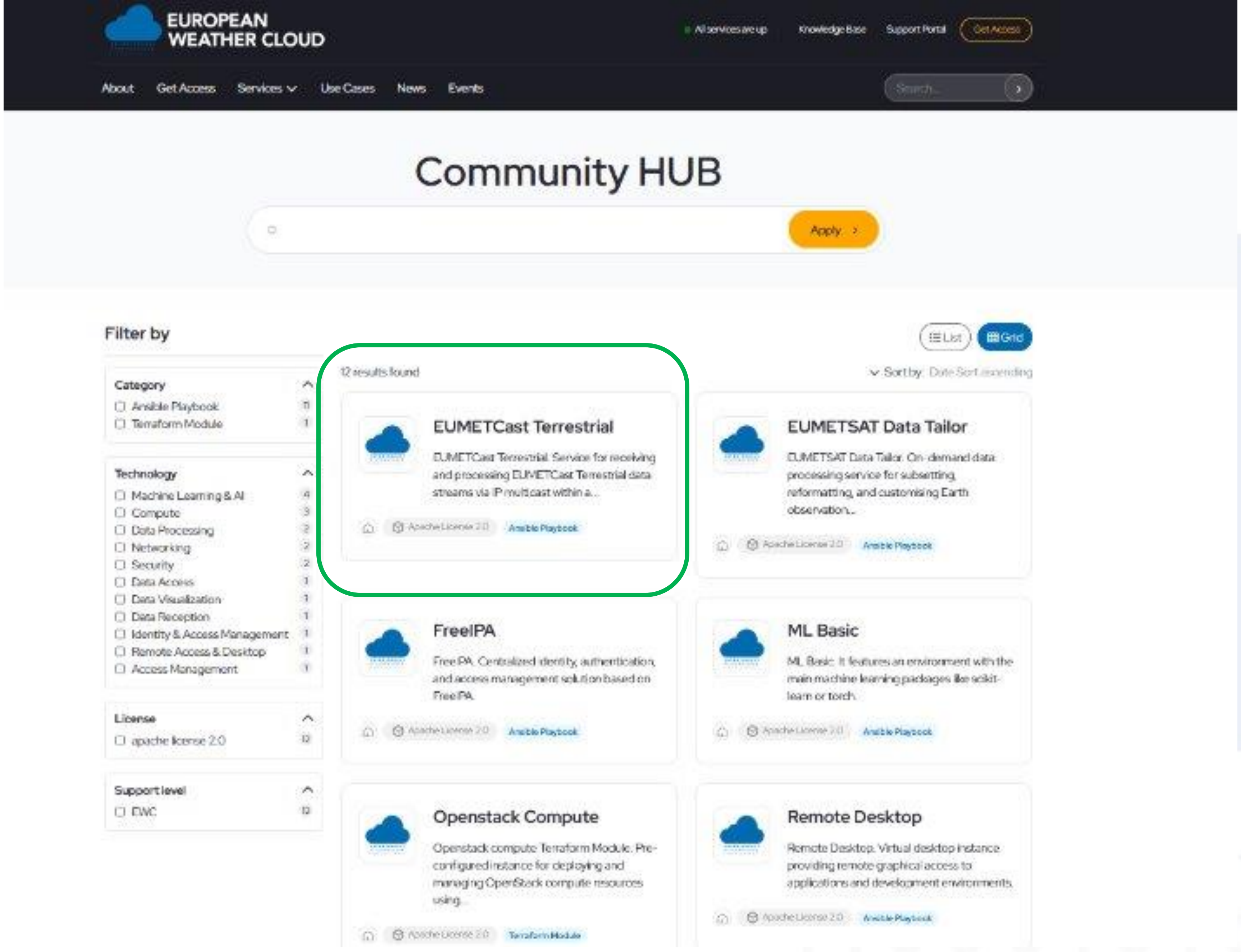

# Community HUB

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**Category**
- ☐ Ansible Playbook 11
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**License**
- ☐ apache license 2.0 12

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- ☐ EWC 12

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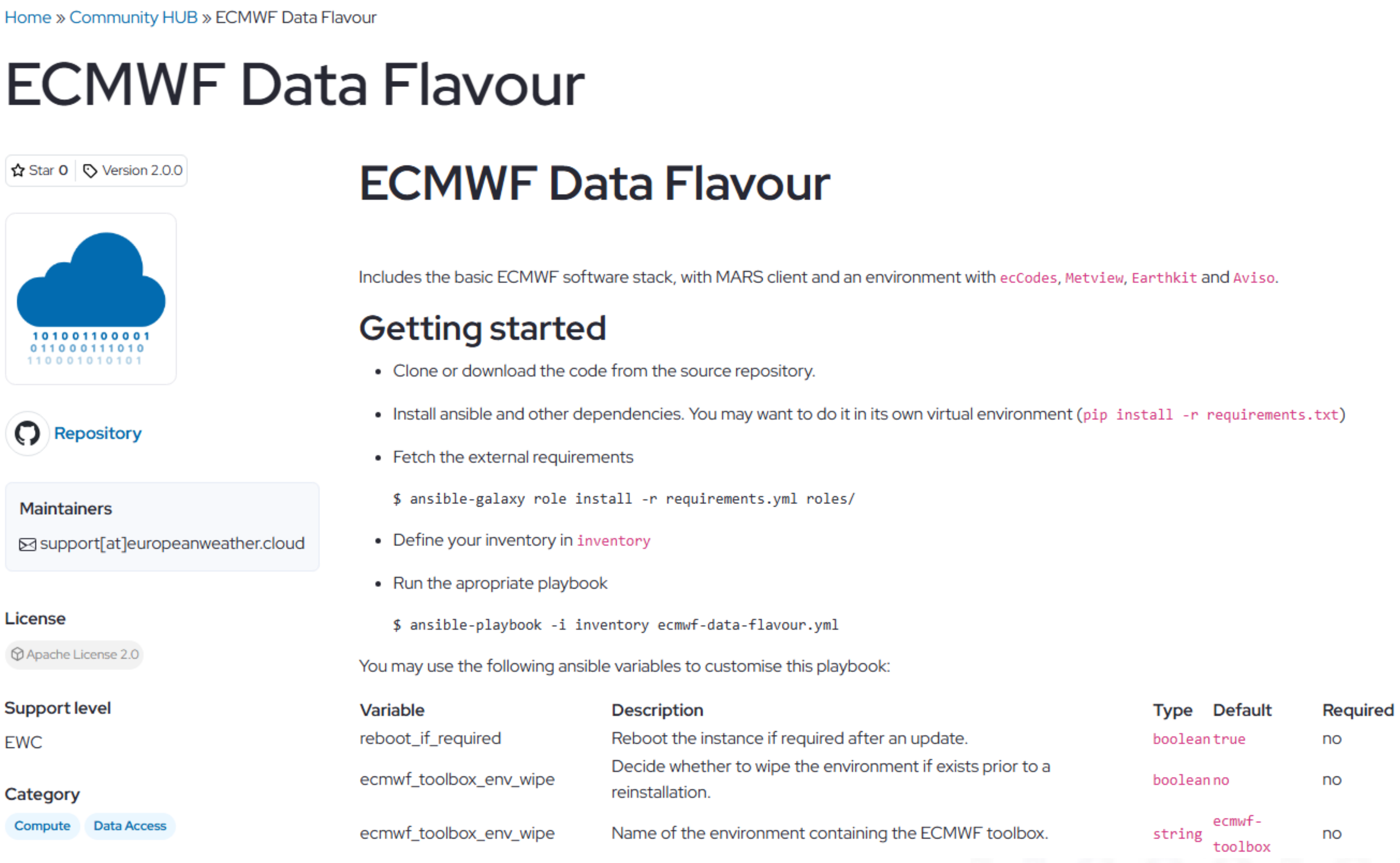

Home » Community HUB » ECMWF Data Flavour

# ECMWF Data Flavour

☆ Star 0 | Version 2.0.0

Repository

**Maintainers**

✉ support[at]europeanweather.cloud

**License**

Apache License 2.0

**Support level**

EWC

**Category**

Compute Data Access

## ECMWF Data Flavour

Includes the basic ECMWF software stack, with MARS client and an environment with `ecCodes`, `Metview`, `Earthkit` and `Aviso`.

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```
$ ansible-galaxy role install -r requirements.yml roles/
```

- Define your inventory in `inventory`
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```
$ ansible-playbook -i inventory ecmwf-data-flavour.yml
```

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| Variable | Description | Type | Default | Required |
|---|---|---|---|---|
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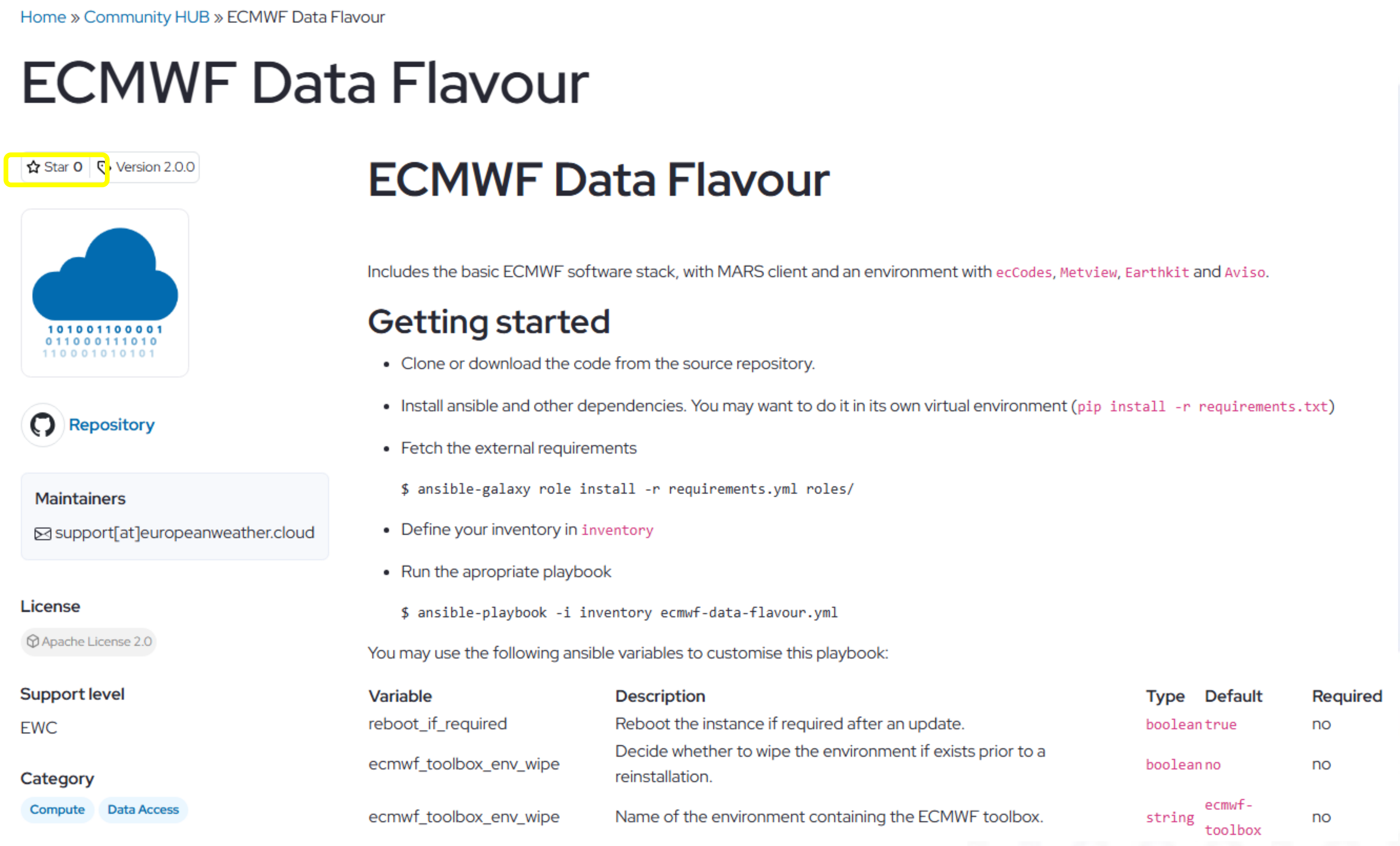
| ecmwf_toolbox_env_wipe | Name of the environment containing the ECMWF toolbox. | `string` | `ecmwf-toolbox` | no |



Home » Community HUB » ECMWF Data Flavour

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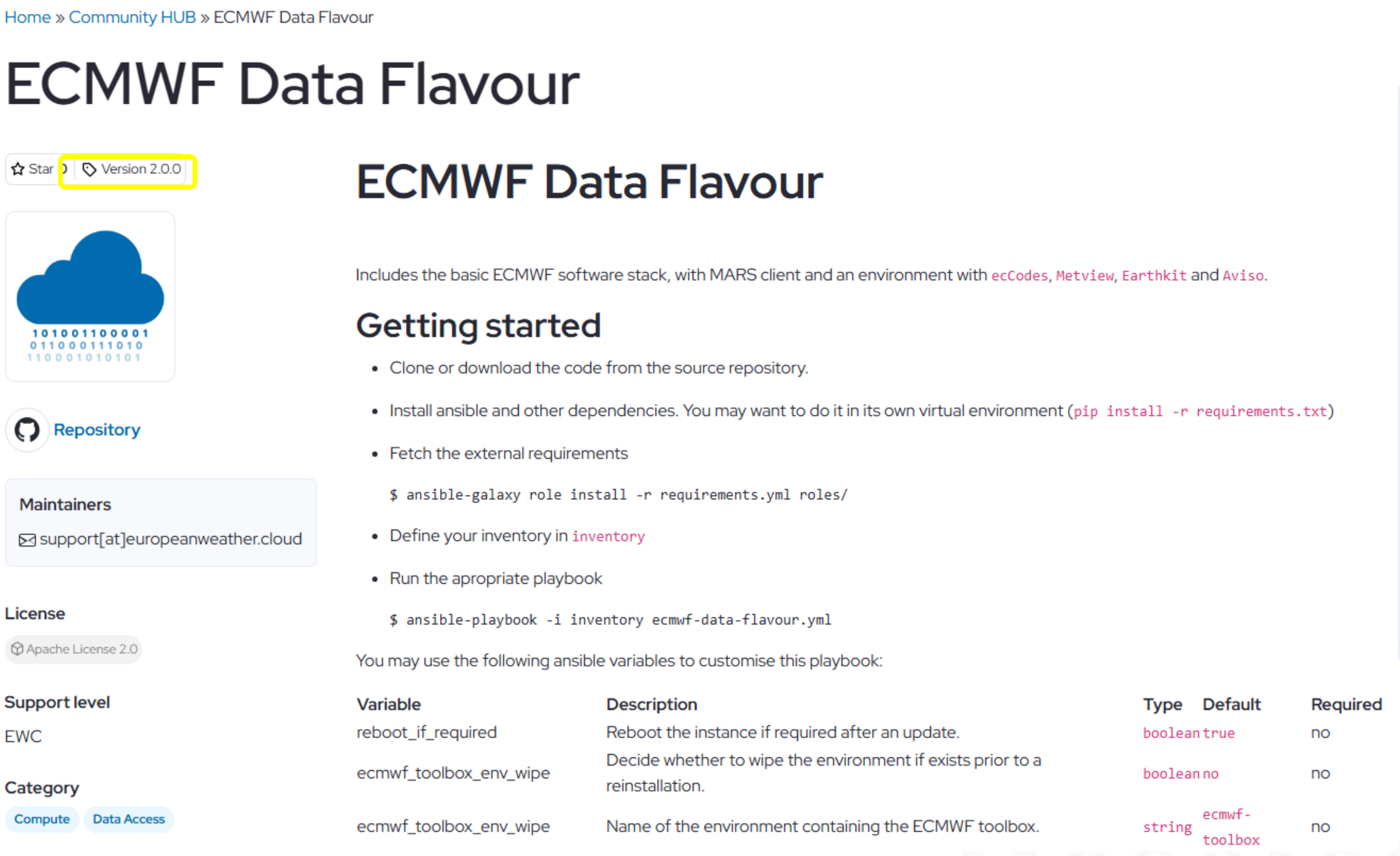

Home » Community HUB » ECMWF Data Flavour

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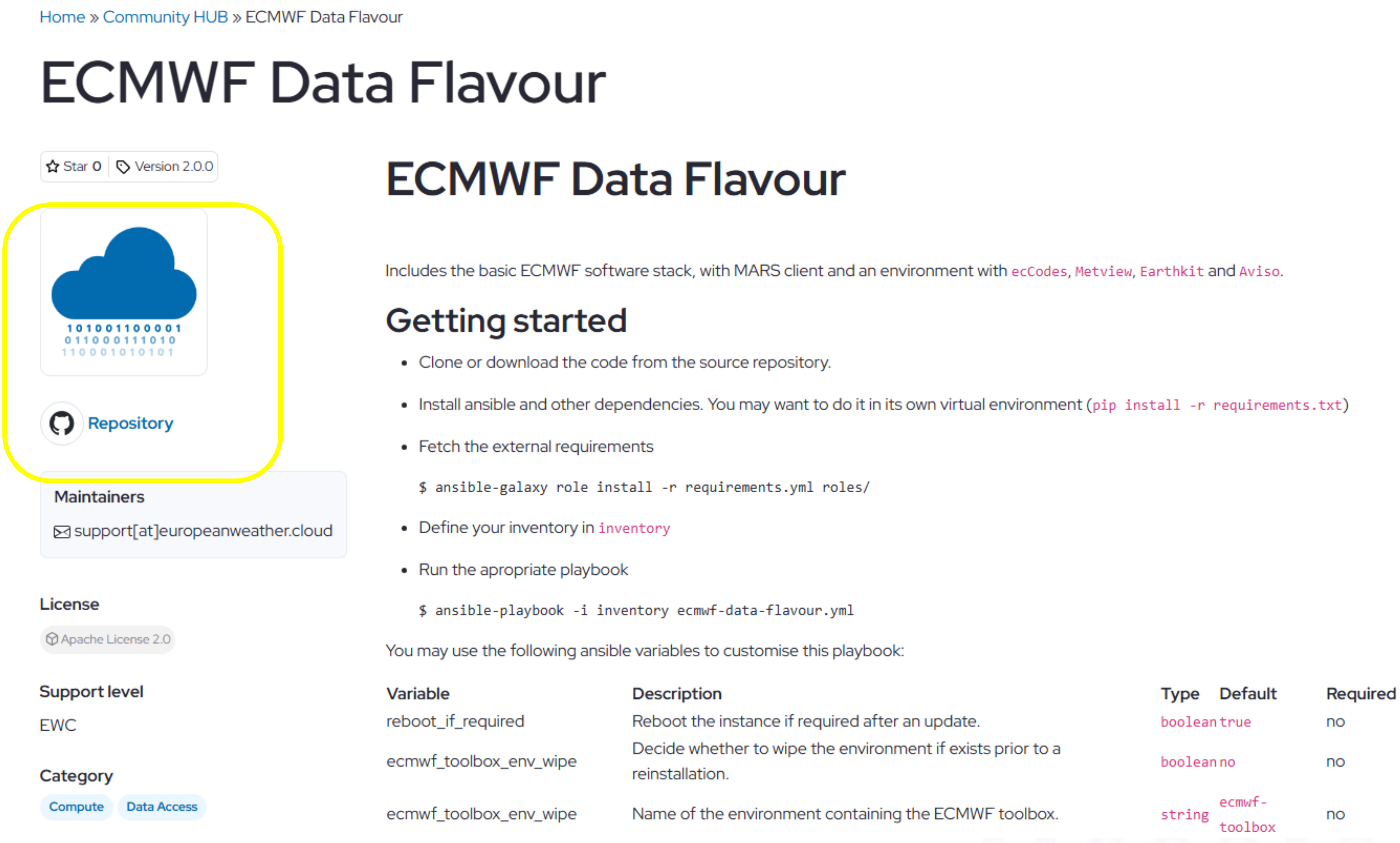

Home » Community HUB » ECMWF Data Flavour

# ECMWF Data Flavour

☆ Star 0 | Version 2.0.0

Repository

**Maintainers**

support[at]europeanweather.cloud

**License**

Apache License 2.0

**Support level**

EWC

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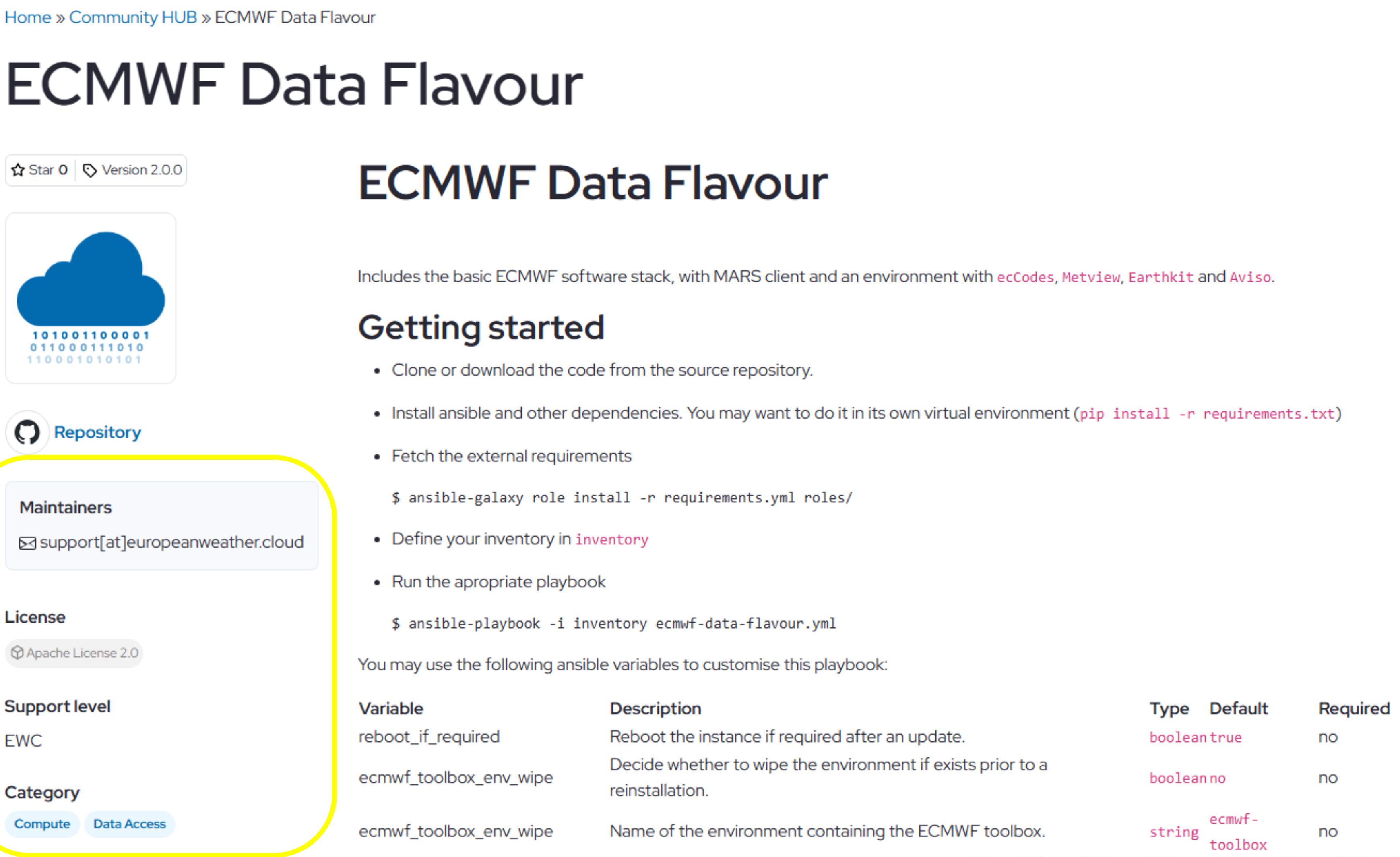

Home » Community HUB » ECMWF Data Flavour

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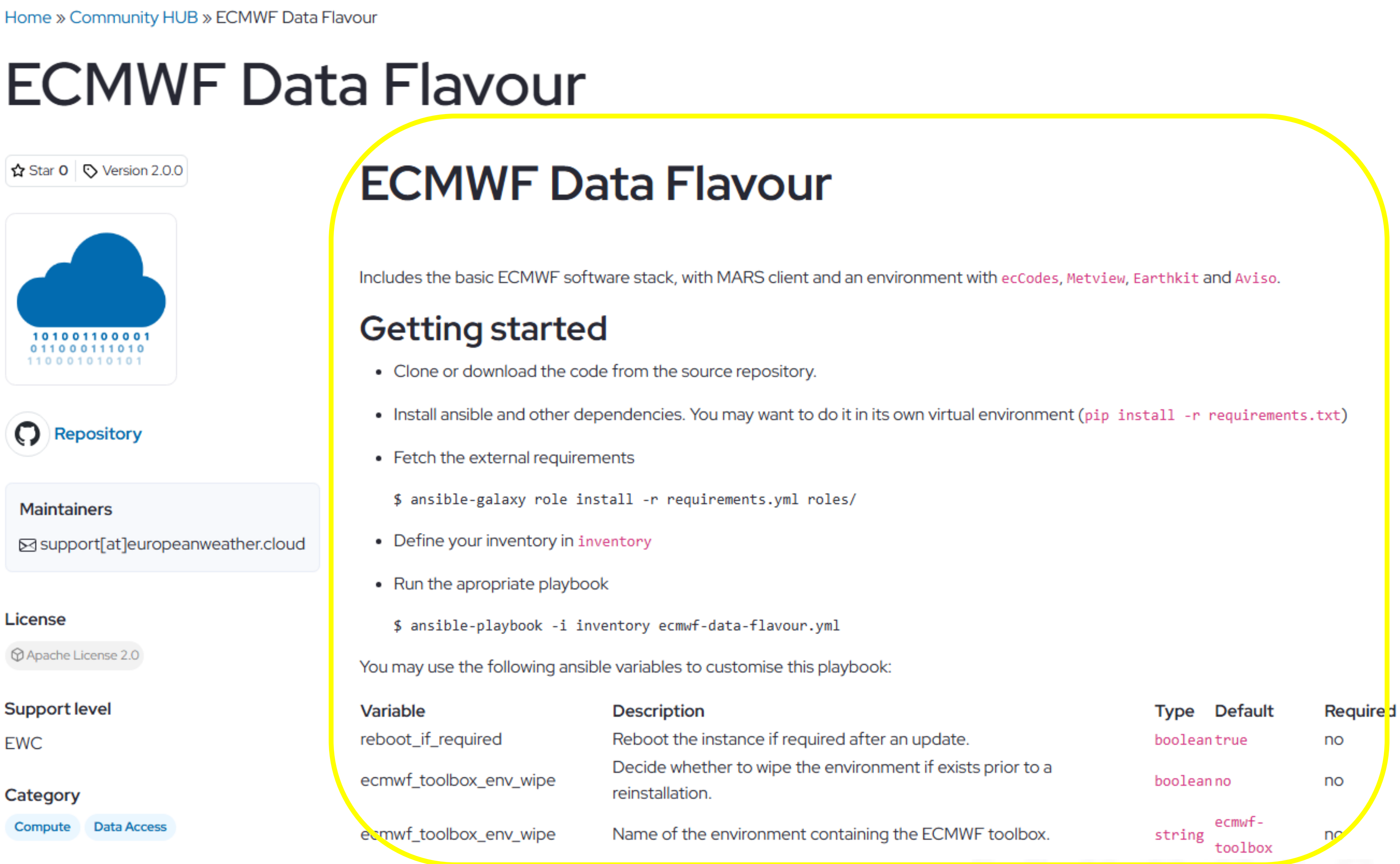

Home » Community HUB » ECMWF Data Flavour

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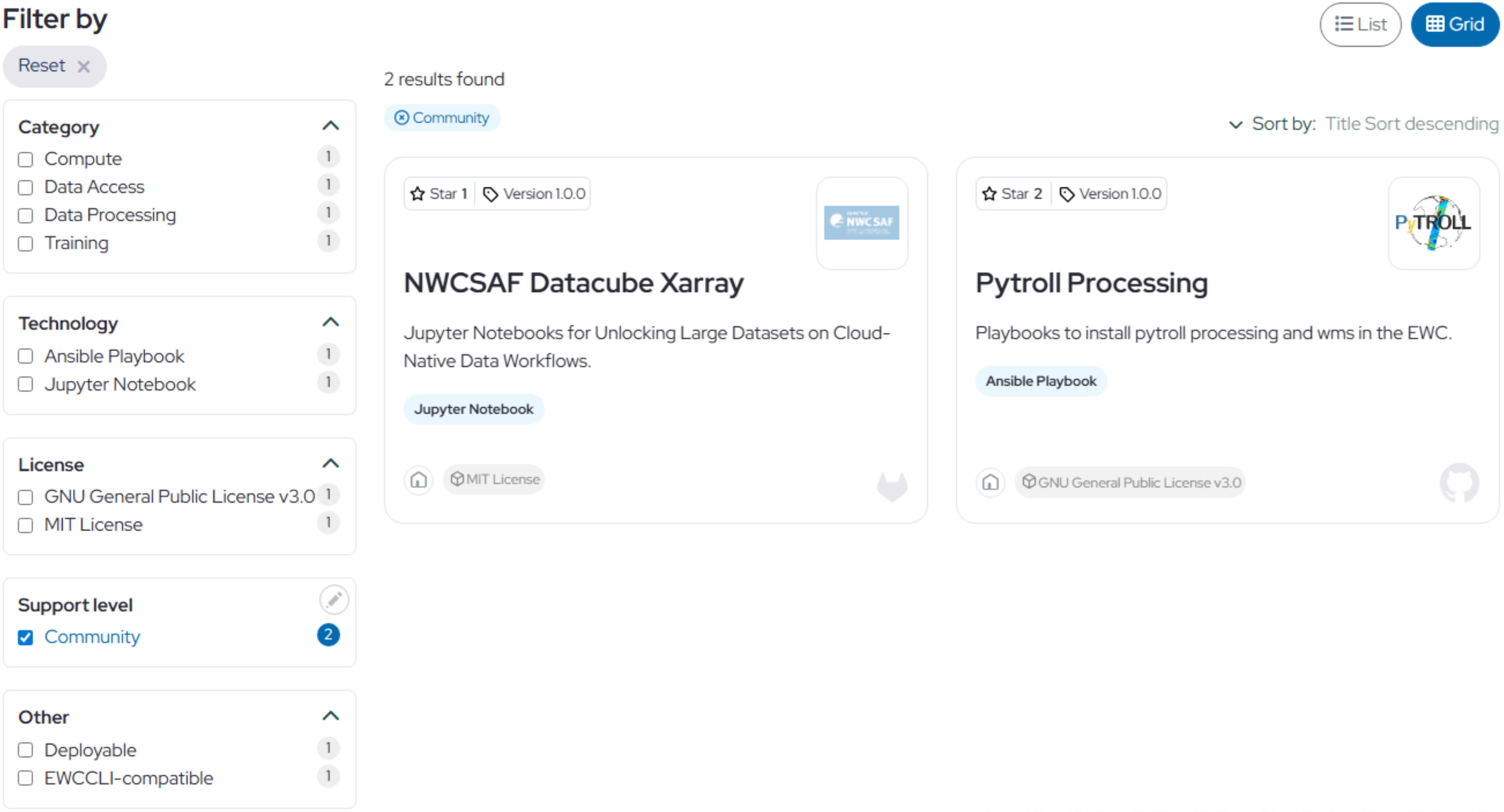
# Community Items



Filter by

Reset ✕

Category
- □ Compute 1
- □ Data Access 1
- □ Data Processing 1
- □ Training 1

Technology
- □ Ansible Playbook 1
- □ Jupyter Notebook 1

License
- □ GNU General Public License v3.0 1
- □ MIT License 1

Support level
- ☑ Community 2

Other
- □ Deployable 1
- □ EWCCLI-compatible 1

List | Grid

2 results found

Community

Sort by: Title Sort descending

☆ Star 1 | Version 1.0.0

NWCSAF

## NWCSAF Datacube Xarray

Jupyter Notebooks for Unlocking Large Datasets on Cloud-Native Data Workflows.

Jupyter Notebook

MIT License

☆ Star 2 | Version 1.0.0

PyTROLL

## Pytroll Processing

Playbooks to install pytroll processing and wms in the EWC.

Ansible Playbook

GNU General Public License v3.0

# Deploying EWC Community Hub items

# Not all items are deployable

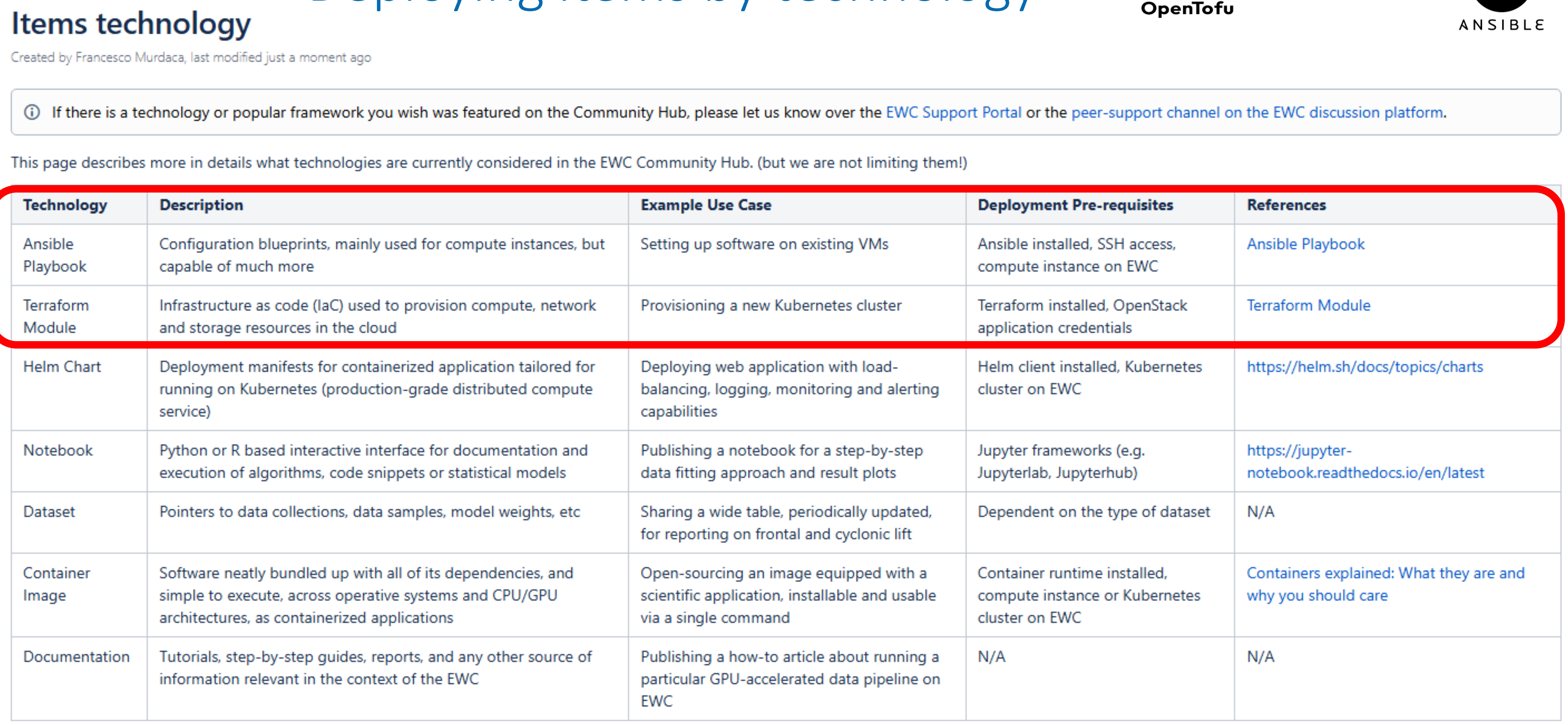
- Deployable items can be executed to provision, configure or deploy a resource:
  - Ansible playbooks
  - Terraform modules
  - Helm charts
  - Ansible playbook/Terraform modules
  - …

- Non deployable items support your workflows, for instance:
  - Jupyter notebooks
  - Tools
  - Examples
  - Libraries
  - …

EUROPEAN WEATHER CLOUD

# Deploying items by technology

OpenTofu Terraform ANSIBLE



## Items technology

Created by Francesco Murdaca, last modified just a moment ago

ⓘ If there is a technology or popular framework you wish was featured on the Community Hub, please let us know over the EWC Support Portal or the peer-support channel on the EWC discussion platform.

This page describes more in details what technologies are currently considered in the EWC Community Hub. (but we are not limiting them!)

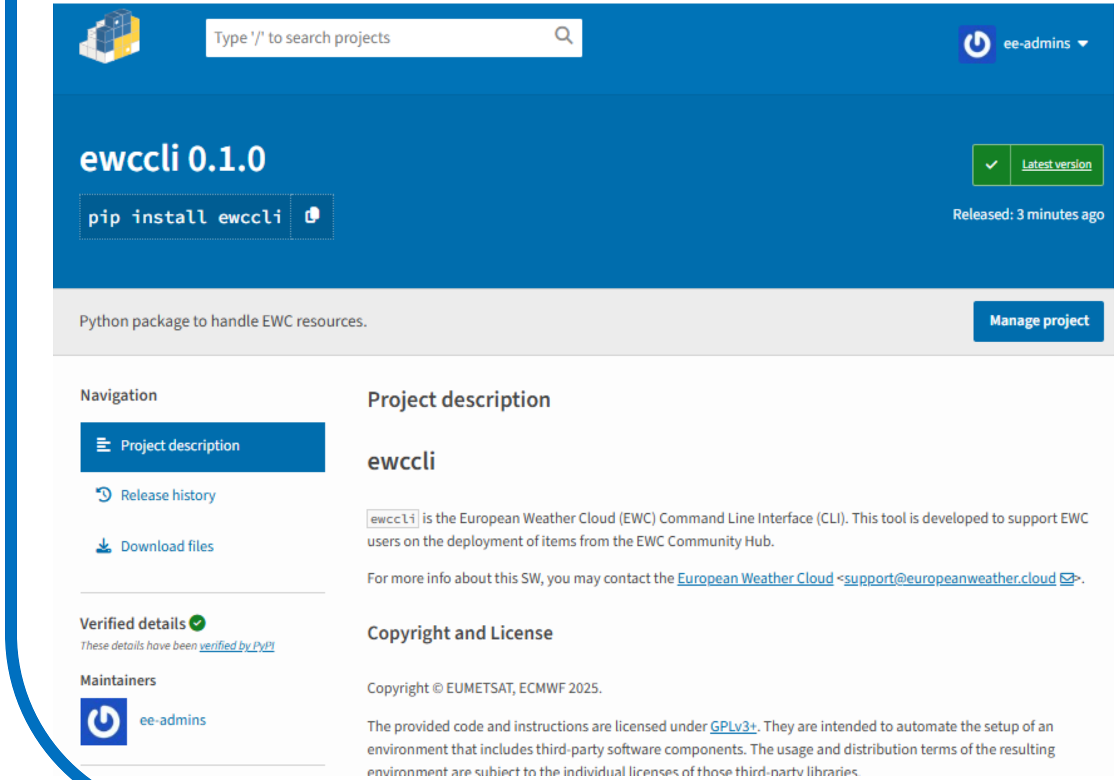
| Technology | Description | Example Use Case | Deployment Pre-requisites | References |
|---|---|---|---|---|
| Ansible Playbook | Configuration blueprints, mainly used for compute instances, but capable of much more | Setting up software on existing VMs | Ansible installed, SSH access, compute instance on EWC | Ansible Playbook |
| Terraform Module | Infrastructure as code (IaC) used to provision compute, network and storage resources in the cloud | Provisioning a new Kubernetes cluster | Terraform installed, OpenStack application credentials | Terraform Module |
| Helm Chart | Deployment manifests for containerized application tailored for running on Kubernetes (production-grade distributed compute service) | Deploying web application with load-balancing, logging, monitoring and alerting capabilities | Helm client installed, Kubernetes cluster on EWC | https://helm.sh/docs/topics/charts |
| Notebook | Python or R based interactive interface for documentation and execution of algorithms, code snippets or statistical models | Publishing a notebook for a step-by-step data fitting approach and result plots | Jupyter frameworks (e.g. Jupyterlab, Jupyterhub) | https://jupyter-notebook.readthedocs.io/en/latest |
| Dataset | Pointers to data collections, data samples, model weights, etc | Sharing a wide table, periodically updated, for reporting on frontal and cyclonic lift | Dependent on the type of dataset | N/A |
| Container Image | Software neatly bundled up with all of its dependencies, and simple to execute, across operative systems and CPU/GPU architectures, as containerized applications | Open-sourcing an image equipped with a scientific application, installable and usable via a single command | Container runtime installed, compute instance or Kubernetes cluster on EWC | Containers explained: What they are and why you should care |
| Documentation | Tutorials, step-by-step guides, reports, and any other source of information relevant in the context of the EWC | Publishing a how-to article about running a particular GPU-accelerated data pipeline on EWC | N/A | N/A |

# Deploying items by ewccli

Use virtual environments to avoid clashes with existing dependencies!

## PyPI

```
pip install ewccli
```



ewccli 0.1.0

```
pip install ewccli
```

Released: 3 minutes ago

Python package to handle EWC resources.

Verified details

*These details have been verified by PyPI*

Maintainers

Project description

ewccli

`ewccli` is the European Weather Cloud (EWC) Command Line Interface (CLI). This tool is developed to support EWC users on the deployment of items from the EWC Community Hub.

For more info about this SW, you may contact the European Weather Cloud <support@europeanweather.cloud>.

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The provided code and instructions are licensed under GPLv3+. They are intended to automate the setup of an environment that includes third-party software components. The usage and distribution terms of the resulting environment are subject to the individual licenses of those third-party libraries.

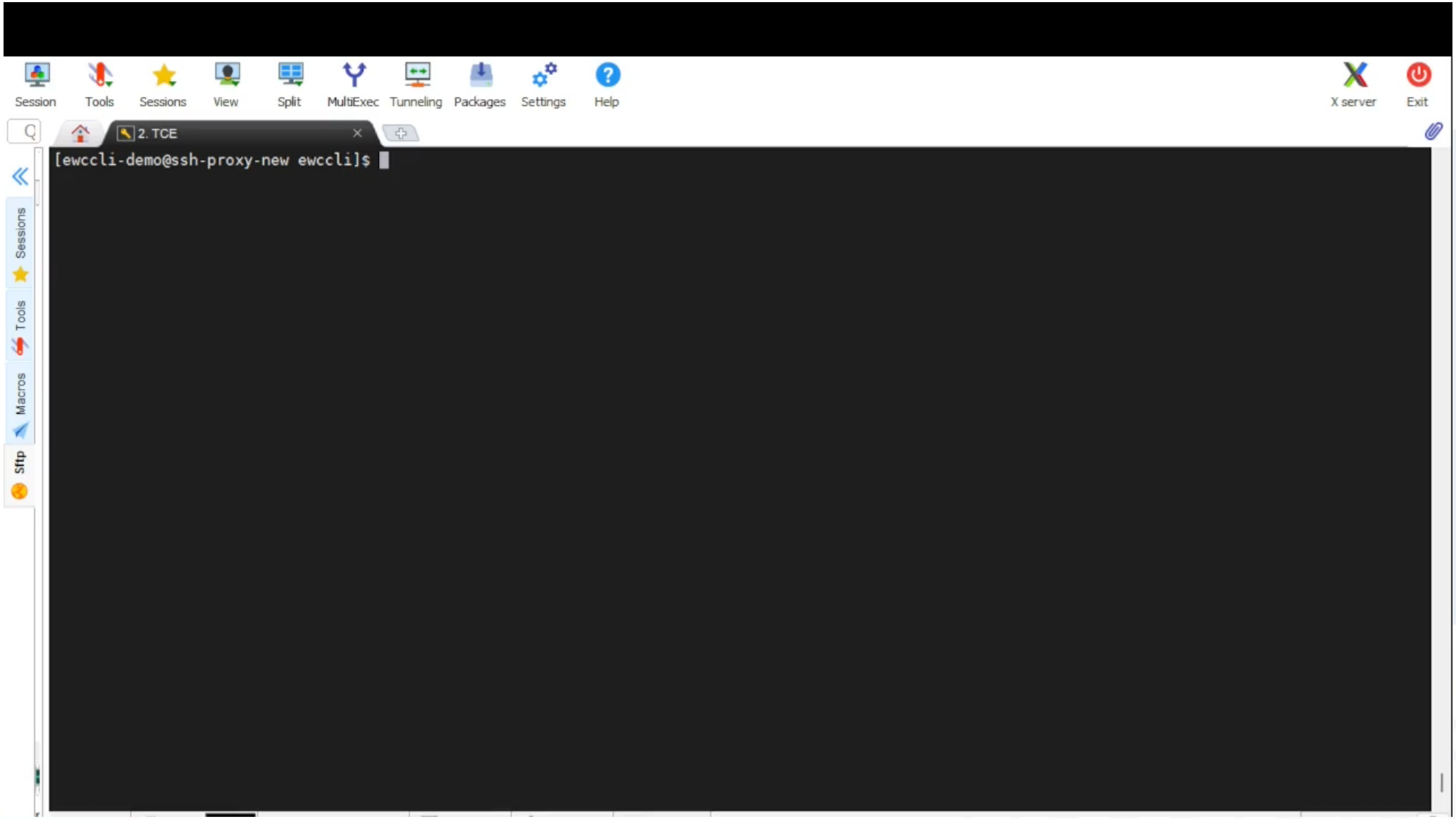
## conda-forge

COMING SOON

# Deploying items by ewccli

- `ewc login`
- `ewc hub list`
- `ewc hub deploy pytroll`

# Deploying items by ewccli



```
[ewccli-demo@ssh-proxy-new ewccli]$ 
```

# Links

- EWC Community Hub Dashboard: Community HUB | The European Weather Cloud
- EWC Community Hub Documentation: EWC Community Hub - European Weather Cloud Knowledge Base - ECMWF Confluence Wiki
- EWCCLI: ewccli · PyPI
- EWC Community Hub Tooling Community Hub Tooling - European Weather Cloud Knowledge Base - ECMWF Confluence Wiki

# Questions & Feedback

❓

**We’d love to hear your thoughts and questions.**

Feedback on the Community Hub

EUROPEAN
WEATHER CLOUD

# THANKS!

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