

# EOSC EU Node Tools Hub User Guide

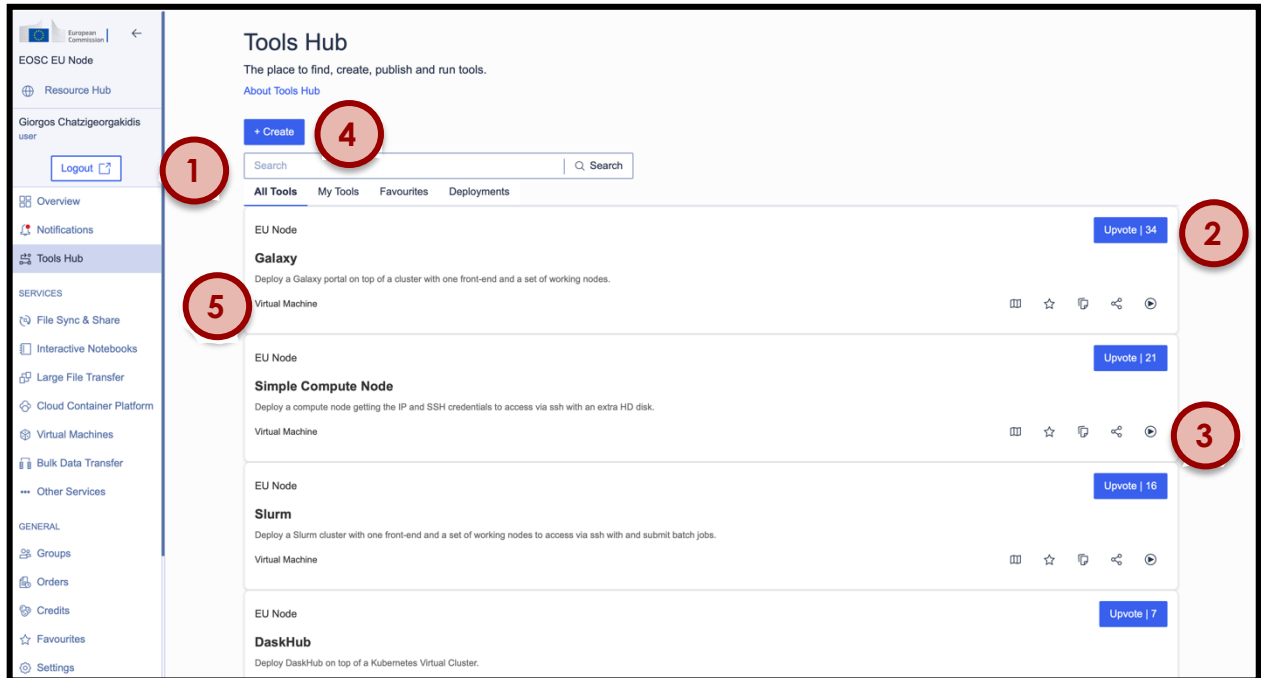
Version 1.3 – 03/02/2024

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# 1. Search and Favourite Existing Tools

## 1.1. All Tools Tab



- While in the **All Tools** tab, you may search for a specific tool by entering a keyword to the search box. All tools published by either EOSC EU Node or other users appear here - (1)
- You may upvote a tool of your preference by clicking on the **Upvote** button. The number of upvotes for all published tools is available to all users - (2)
- For each tool in the list, you may click one of the action icons to view its details, add it to your **Favourites** (Section 1.2), deploy it (Sections 2.1 and 2.2), or copy it to **My Tools** (Section 3.4) - (3)
- To create a new tool, you may click on the **Create** button (Sections 3.1, 3.2 and 3.3) - (4)
- Make sure to have allocated resources for the appropriate service required by a tool before deploying it - (5)

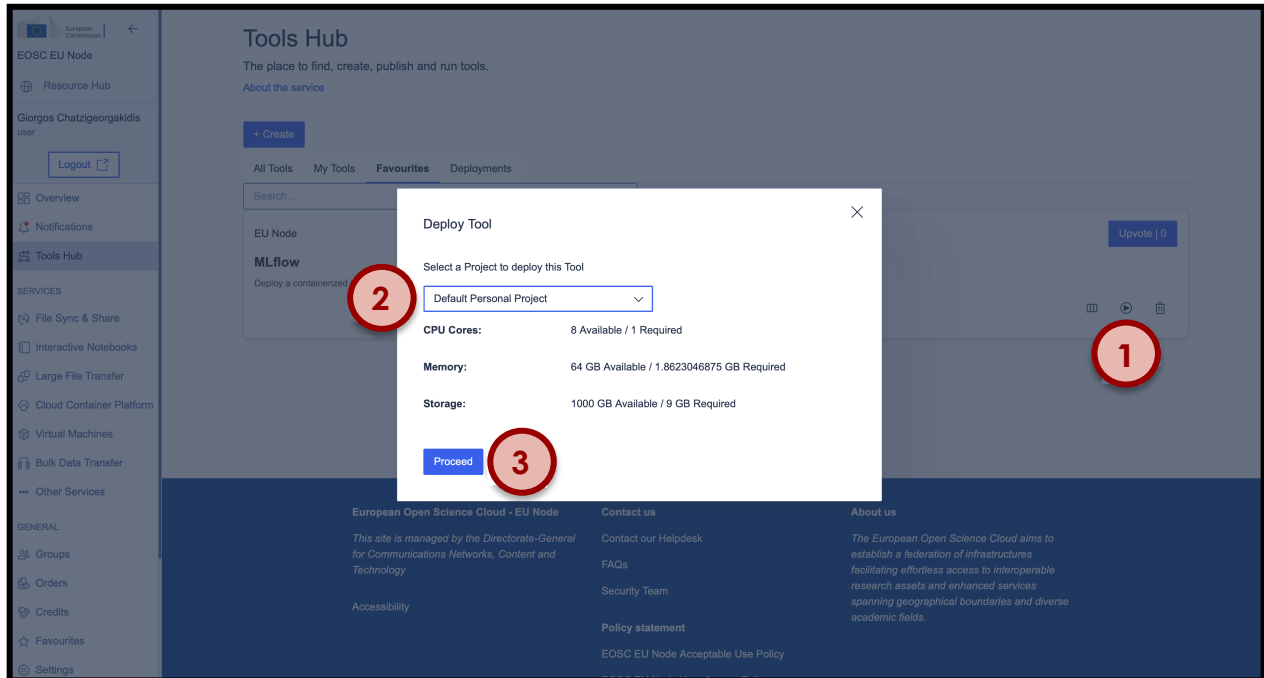
## 1.2. Favourites Tab

The screenshot shows the 'Tools Hub' interface. On the left is a navigation sidebar with sections: 'Resource Hub', 'Giorgos Chatzigeorgakidis user' (with a 'Logout' button), 'Overview', 'Notifications', 'Tools Hub' (highlighted), 'SERVICES' (including File Sync & Share, Interactive Notebooks, Large File Transfer, Cloud Container Platform, Virtual Machines, Bulk Data Transfer, and Other Services), and 'GENERAL' (including Groups, Orders, Credits, Favourites, and Settings). The main content area is titled 'Tools Hub' and includes a '+ Create' button, tabs for 'All Tools', 'My Tools', 'Favourites' (selected), and 'Deployments', and a search bar. Below the search bar, a tool named 'MLflow' is listed under the 'EU Node' category. The tool description is 'Deploy a containerized instance of a MLflow platform on OKD.' To the right of the tool entry are three icons: a list icon, a play icon, and a delete icon. A red circle with the number '1' is drawn around the delete icon. At the bottom of the page is a dark blue footer with three columns of text: 'European Open Science Cloud - EU Node' (with a description of the site's management), 'Contact us' (with links to Helpdesk, FAQs, and Security Team), and 'About us' (with a description of the cloud's mission). A 'Policy statement' link and 'EOSC EU Node Acceptable Use Policy' are also present.

- Your **Favourites** tab contains all the tools you have added as favourites
- You may either view the details, deploy, or delete each favourited tool - (1)

## 2. Deploy a Tool

### 2.1. Deployment Wizard



- Before deploying a tool, make sure that you have allocated the necessary resources to your personal or group project. In this example, a Cloud Container Platform Deployment is needed beforehand
- To deploy a tool, click on the **Deploy** button - (1)
- On the dialog that appears, select an available **Personal** or **Group** project to deploy the tool - (2)
- If the resources are sufficient, proceed with deploying the tool. When your tool is deployed, you will receive a notification - (3)

## 2.2. Deployments Tab

The screenshot displays the 'Tools Hub' interface. On the left is a sidebar with the user's name 'Giorgos Chatzigeorgakidis' and a 'Logout' button. Below this are sections for 'SERVICES' (File Sync & Share, Interactive Notebooks, Large File Transfer, Cloud Container Platform, Virtual Machines, Bulk Data Transfer, Other Services) and 'GENERAL' (Groups, Orders, Credits, Favourites, Settings). The main area is titled 'Tools Hub' and contains a '+ Create' button, a search bar, and a 'Deployments' tab. Under the 'Deployments' tab, a tool named 'MLflow' is listed with a status of 'Deployed'. A pop-up message states: 'It has been deployed on your behalf on Container/Compute Service. Any further actions can be performed from those Services.' The footer contains information about the European Open Science Cloud - EU Node, contact details, and policy statements.

- Upon successful deployment your tool will be available under the **Deployments** tab - (1)
- The **Tools Hub** deploys your tool on your behalf on the appropriate service on which you had already allocated resources. As indicated in the pop-up message, you may now access your deployed tool by visiting the corresponding service page (please refer to the corresponding user guide and documentation for further instructions) - (2)
- You may stop your tool at any time by clicking on the **Remove** button - (3)

## 3. Create a Tool

### 3.1. Create Tool Wizard (I/III)

The screenshot shows the 'Tool Details' wizard in the EOOSC EU Node interface. The interface is divided into a left sidebar, a central progress area, and a right-hand form area.

- Left Sidebar:** Contains navigation options like 'Overview', 'Notifications', 'Tools Hub', 'SERVICES' (File Sync & Share, Interactive Notebooks, Large File Transfer, Cloud Container Platform, Virtual Machines, Bulk Data Transfer, Other Services), and 'GENERAL' (Groups, Orders, Credits, Favourites, Settings).
- Central Progress Area:** Titled 'Tool Details', it shows a progress bar with '1/2 required steps complete' and '85%'. The steps are: 1. Metadata (checked and highlighted with a red circle and '1'), 2. Content, and 3. Review.
- Right-hand Form Area:** Contains the following fields:
  - Name:** 'Name of the Tool.' Input field with 'Test Tool' and a note 'Suggested length is 100 characters'.
  - Description:** 'A high-level description.' Input field with 'This is a test tool.' and a note 'Suggested length is 1000 characters'.
  - Resource Organisation:** Input field with 'Athena R.C.' and a note 'Suggested length is 30 characters'.
  - License:** A dropdown menu currently showing 'Apache License 2.0'.
  - Version Date:** Input field with 'Mon Nov 11 2024'.
  - Keywords:** 'Keywords associated to the Tool to simplify search by relevant keywords.' Input field.

At the bottom of the form, there are 'Cancel and Exit' and 'Next >' buttons.

- To create your tool, you must complete all the steps of the wizard
- At the **Metadata** step, you must provide all necessary metadata for your new tool, such as name, description and license - (1)

## 3.2. Create Tool Wizard (II/III)

The screenshot displays the 'Tool Details' page in the EOSC EU Node interface. The page is divided into several sections:

- Left Sidebar:** Contains navigation options such as 'Overview', 'Notifications', 'Tools Hub', 'SERVICES', 'File Sync & Share', 'Interactive Notebooks', 'Large File Transfer', 'Cloud Container Platform', 'Virtual Machines', 'Bulk Data Transfer', 'Other Services', 'GENERAL', 'Groups', 'Orders', 'Credits', 'Favourites', and 'Settings'.
- Top Section:** 'Tool Details' header with a note: 'Fields with (\*) are mandatory for submission. Blank optional fields won't appear on the published page.' Below this are three steps: 'Metadata \*', 'Content \*', and 'Review'. The 'Content \*' step is highlighted with a red circle and the number '1'.
- Right Section:** 'TOSCA File' section. It includes an 'Upload an existing file' section with a 'Replace file' button (highlighted with a red circle and the number '2'). Below this is an editor titled 'Edit the uploaded file or create a new one' containing a TOSCA template in YAML format (highlighted with a red circle and the number '3').
- Bottom Section:** A progress bar showing '2/2 required steps complete' and '100%'. There are 'Cancel and Exit' and 'Previous Next >' buttons.

- In the **Content** step of the tool creation wizard, you must provide the content of the tool, by uploading a TOSCA template in YAML format. To find out more about TOSCA templates, please visit [this](#) webpage - (1)
- To upload an existing TOSCA template, you may on the **Choose file** button. Once the file is uploaded, the button text changes to **Replace file**. You may click on it to upload a different TOSCA template - (2)
- In the provided editor, you may either change the code of the TOSCA template file you have uploaded, or create your own TOSCA template from scratch - (3)

### 3.3. Create Tool Wizard (III/III)

The screenshot shows the 'Tool Details' page in the EOSS EU Node interface. The page is divided into three main sections: 'Tool Details', 'Metadata', and 'Content'. The 'Tool Details' section on the left includes a sidebar with navigation options like 'Overview', 'Notifications', 'Tools Hub', 'SERVICES', and 'GENERAL'. The main content area shows the 'Review' step, with a progress bar indicating '2/2 required steps complete' and '100%'. The 'Metadata' section contains fields for Name, Description, Resource Organisation, Version Date, Keywords, Deprecated, Scientific Domain, and Scientific Subdomain. The 'Content' section displays a 'Tosca File' with a code snippet. The 'Previous' and 'Confirm' buttons are highlighted with red circles '3' and '4' respectively.

Tool Details	
Fields with (*) are mandatory for submission. Blank optional fields won't appear on the published page.	
Metadata *	✓
Content *	✓
Review	1

Metadata	
Name:	Test Tool
Description:	This is a test tool.
Resource Organisation:	Athena R.C.
Version Date:	Fri Dec 20 2024
Keywords:	test
Deprecated:	No
Scientific Categorisation:	
Scientific Domain:	Engineering & Technology
Scientific Subdomain:	Electrical, Electronic & Information Engineering
Target Infrastructure:	Container Service
License:	Apache License 2.0

```
1 toska_definitions_version: toska_simple_yaml_1_0
2
3 imports:
4 - gtycap_custom_types: https://raw.githubusercontent.com/gtycap/tosca/main/custom_types.yaml
5
6 description: >
7 Deploy a compute node getting the IP and SSH credentials to access via ssh with an extra HD disk.
8
9 metadata:
10 template_name: VM
11 template_version: '1.1.0'
12 template_author: Miguel Caballer
13 creation_date: 2020-09-08
14 display_name: Deploy a VM
15 icon: images/vm-icon-disk.png
16 tag: VM
```

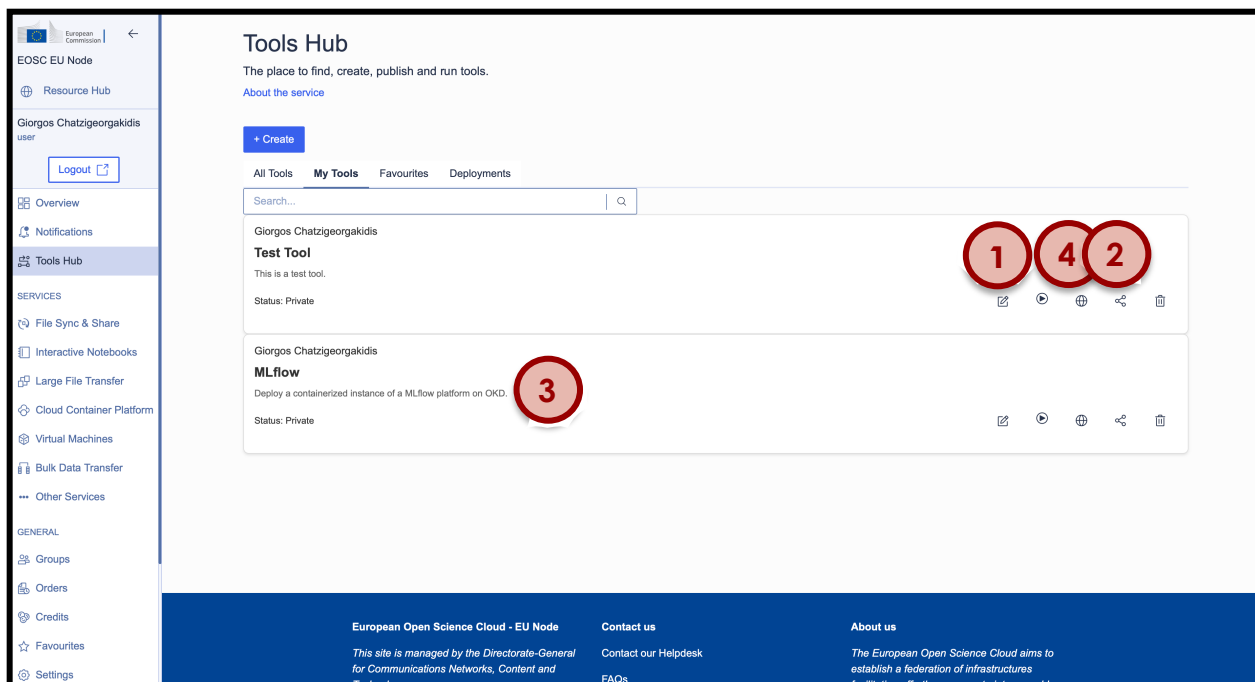
Cancel and Exit

Previous Confirm

- In the **Review** step you may review the provided information for your tool and confirm it - (1)
- In case of any mistakes, you may go back to apply corrections by either clicking on the edit links of each section, or on the **Previous** button - (2), (3)
- Finally, to create your tool, you must click on the **Confirm** button - (4)
- Your new tool will be listed under **My Tools** (Section 3.4)



### 3.4. The My Tools Tab



- Any tool you have created via the tool creation wizard will be listed in the **My Tools** tab. Here, you have some additional options
- You may edit the metadata and/or provided TOSCA template of your tool by clicking on the **Edit** button - (1)
- You may share the tool with another user. Clicking on the **Share** button generates a link, which can be shared to another person. Of course, they must also be users of EOSC EU Node to access the tool - (2)
- Another way to add tools in your **My Tools** tab is by clicking on the **Copy to My Tools** button of a published tool at the **All Tools** tab (Section 1.1). The tools creation wizard opens again for you to optionally edit any of its metadata and/or TOSCA template file - (3)
- Finally, you may request to publish your tool by clicking on the **Publish** button. Before being published, your tool must first be approved by the Back-Office of EOSC EU Node. Once your tool is approved you will receive a notification. Publishing your tools makes it available in the **All Tools** tab for other users to also access and use - (4)