EOSC EU Node Tools Hub User Guide

Version 3.0 – 03/09/2026

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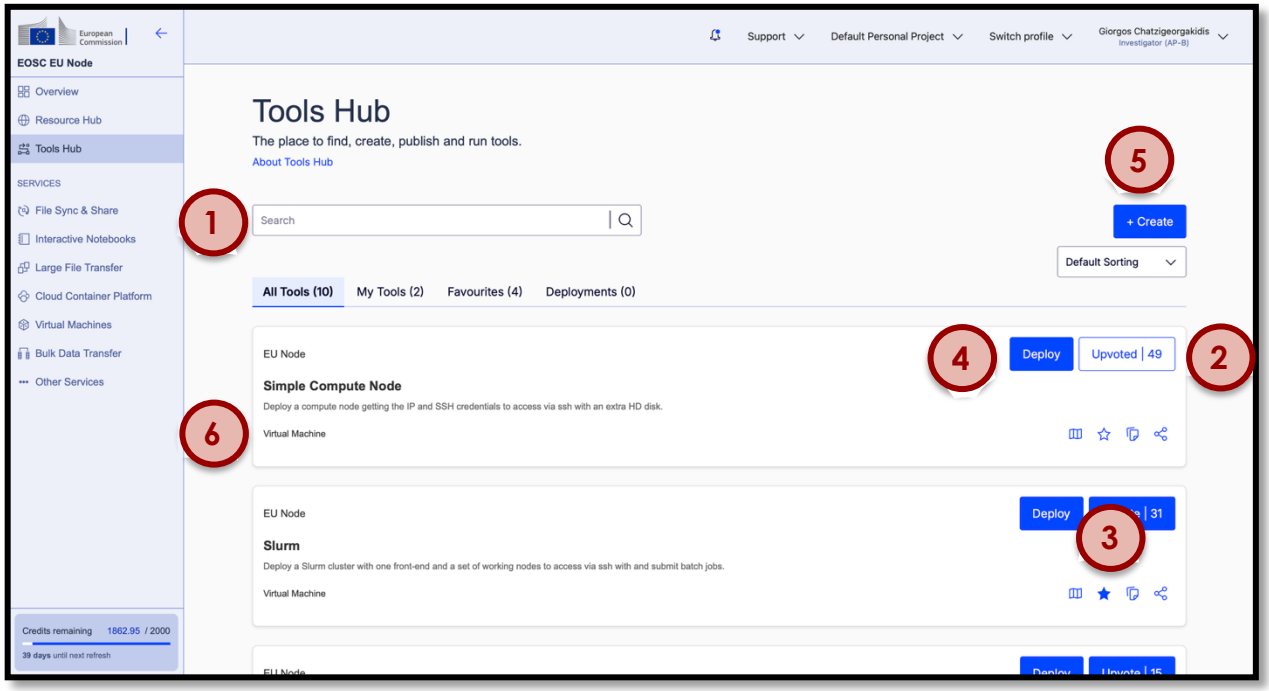
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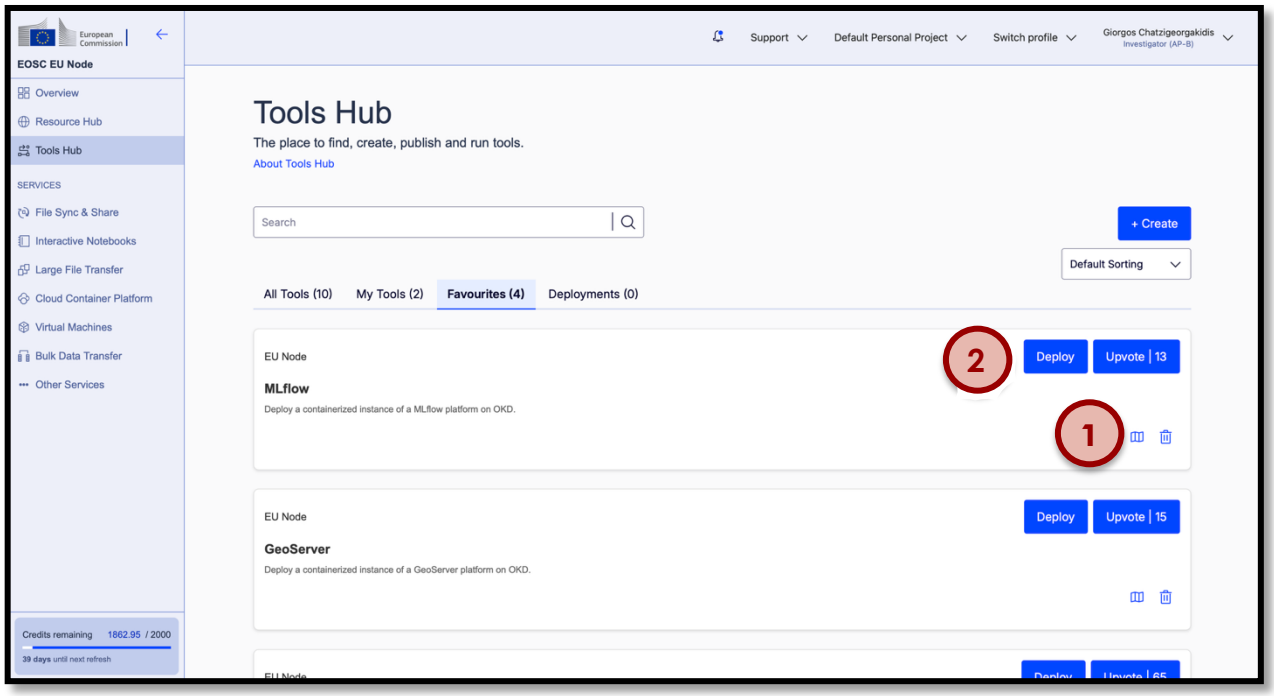
1. Search and Favourite Existing Tools

1.1. All Tools Tab



- While in the **All Tools** tab, you may search for a specific tool by entering a keyword in 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*), copy it to **My Tools** (*Section 3.4*), or share it with other users - (3)
- To deploy a tool (*Sections 2.1 and 2.2*), click on the **Deploy** button - (4)
- To create a new tool, you may click on the **Create** button (*Sections 3.1, 3.2 and 3.3*) - (5)
- Make sure to have allocated resources for the appropriate service required by a tool before deploying it - (6)

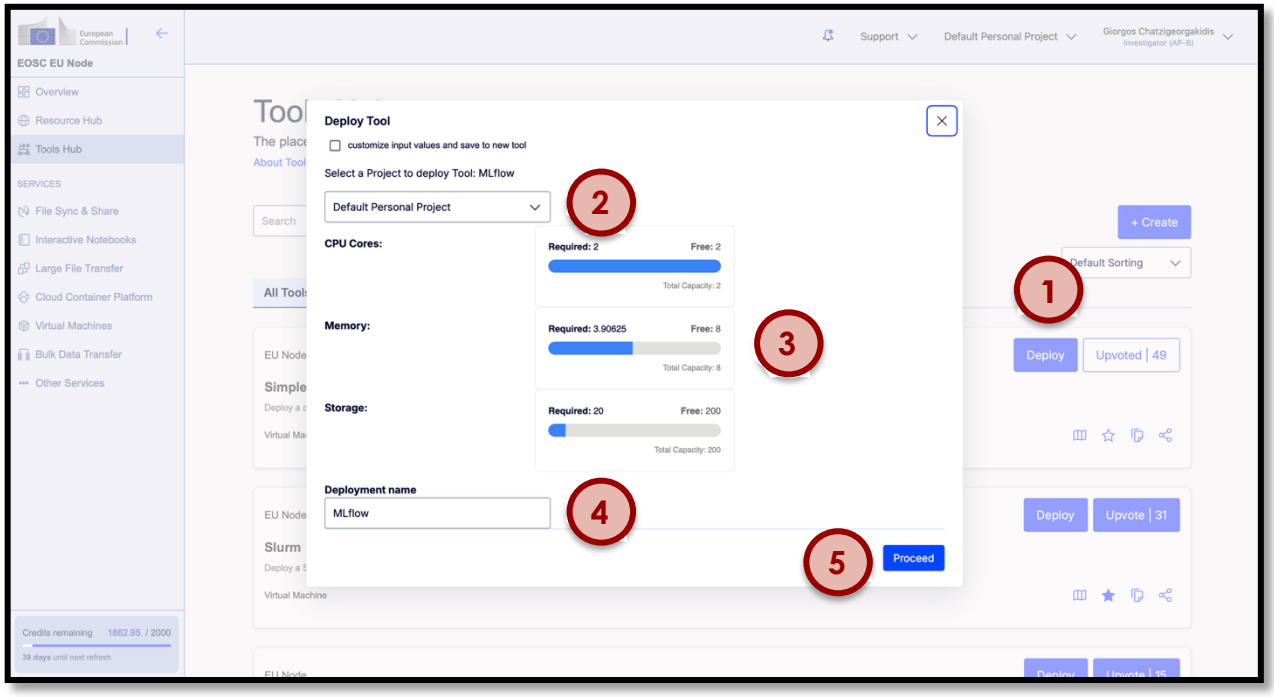
1.2. Favourites Tab



- 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)

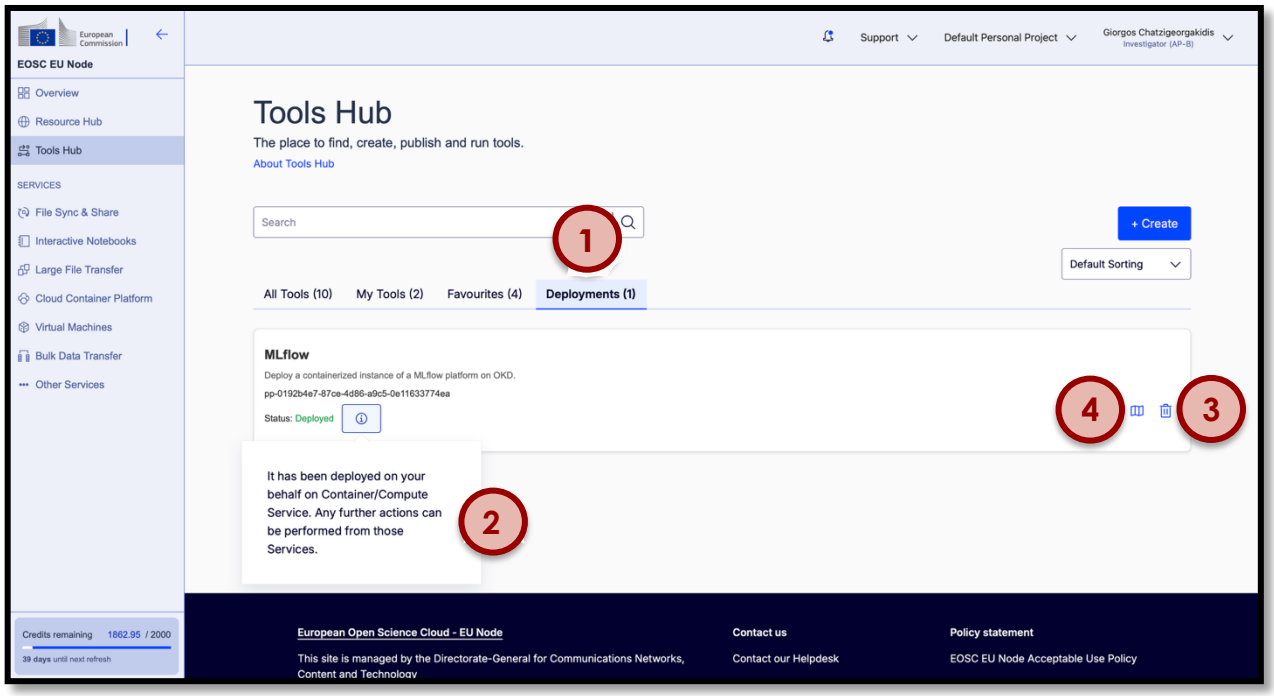
2. Deploy a Tool

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 allocated resources are sufficient, proceed with deploying the tool - (3)
- You can rename the deployed tool name - (4)
- Click on **Proceed** to deploy the tool. When your tool is deployed, you will receive a notification - (5)

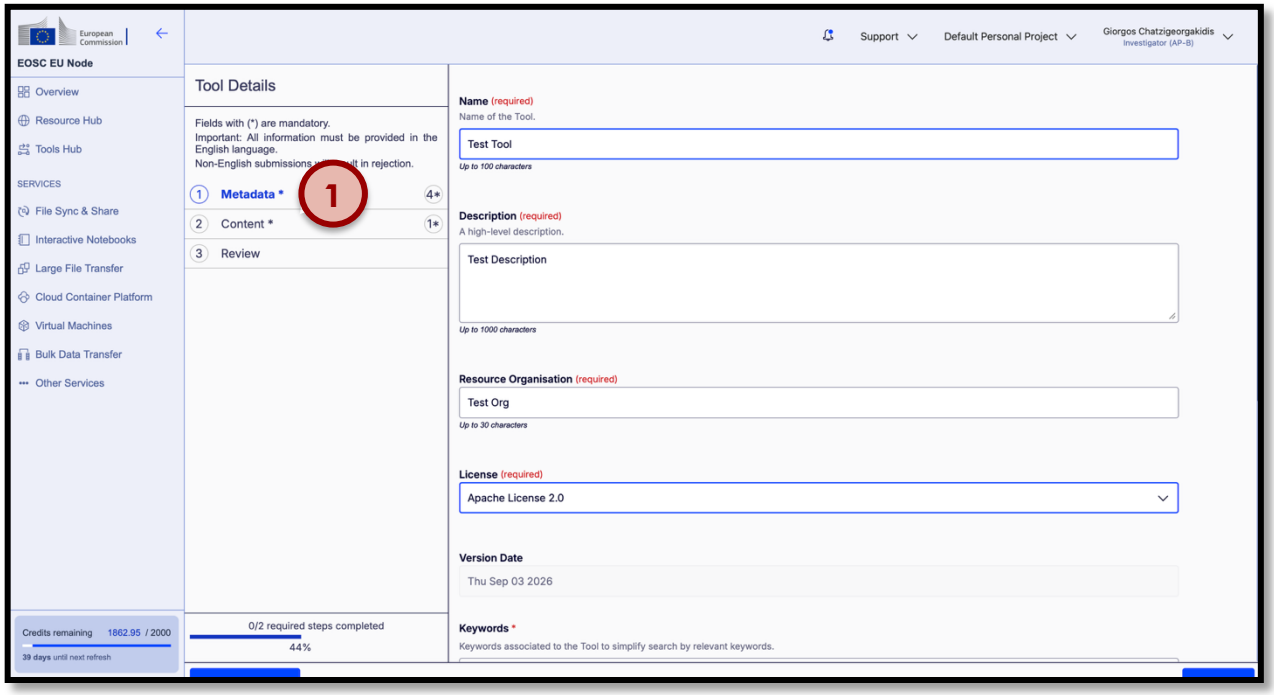
2.2. Deployments Tab



- 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)
- Once your tool is deployed you may click on the **Show Details** button to get the required information to access your tool. For example, if your tool creates a Virtual Machine, you will be provided with the assigned IP, username and SSH private key needed to access it. You may copy the value of the token field into a file as follows: `echo -e "<<your_key>>" > ssh_key.pem && chmod 600 ssh_key.pem`. Then, you may access your created VM by issuing: `ssh -i ssh_key.pem username@vmip` - (4)

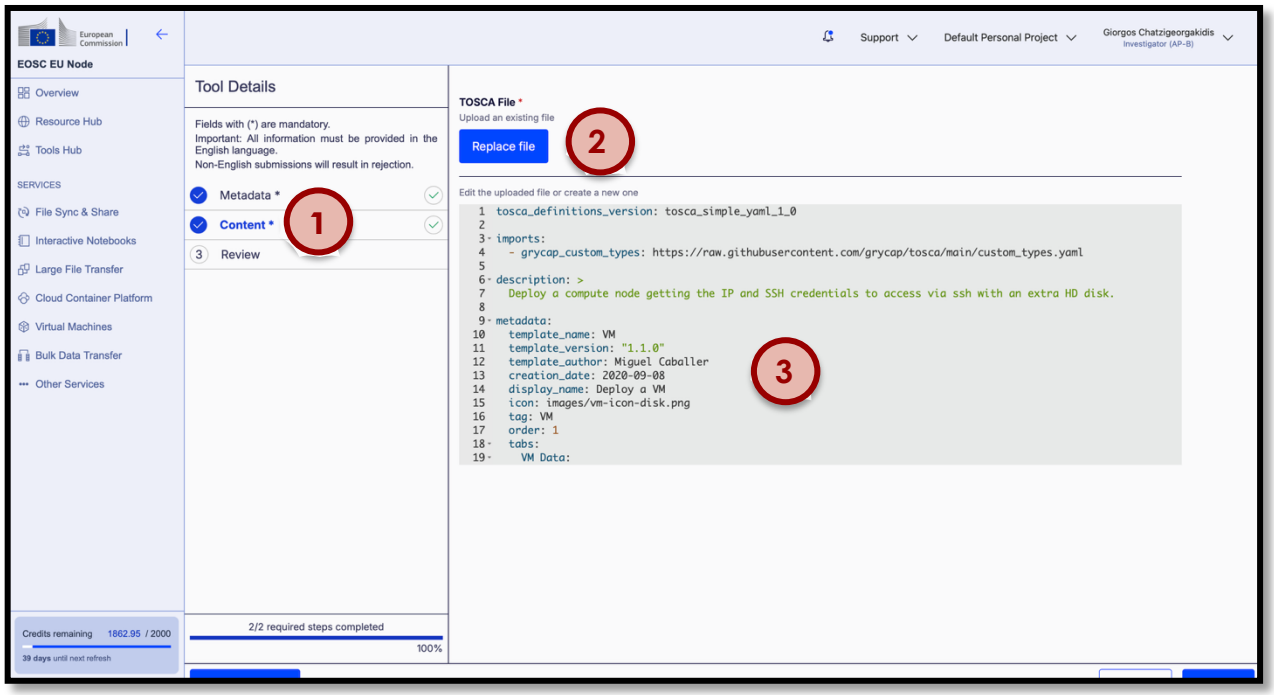
3. Create a Tool

3.1. Create Tool Wizard (I/III)



- 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)

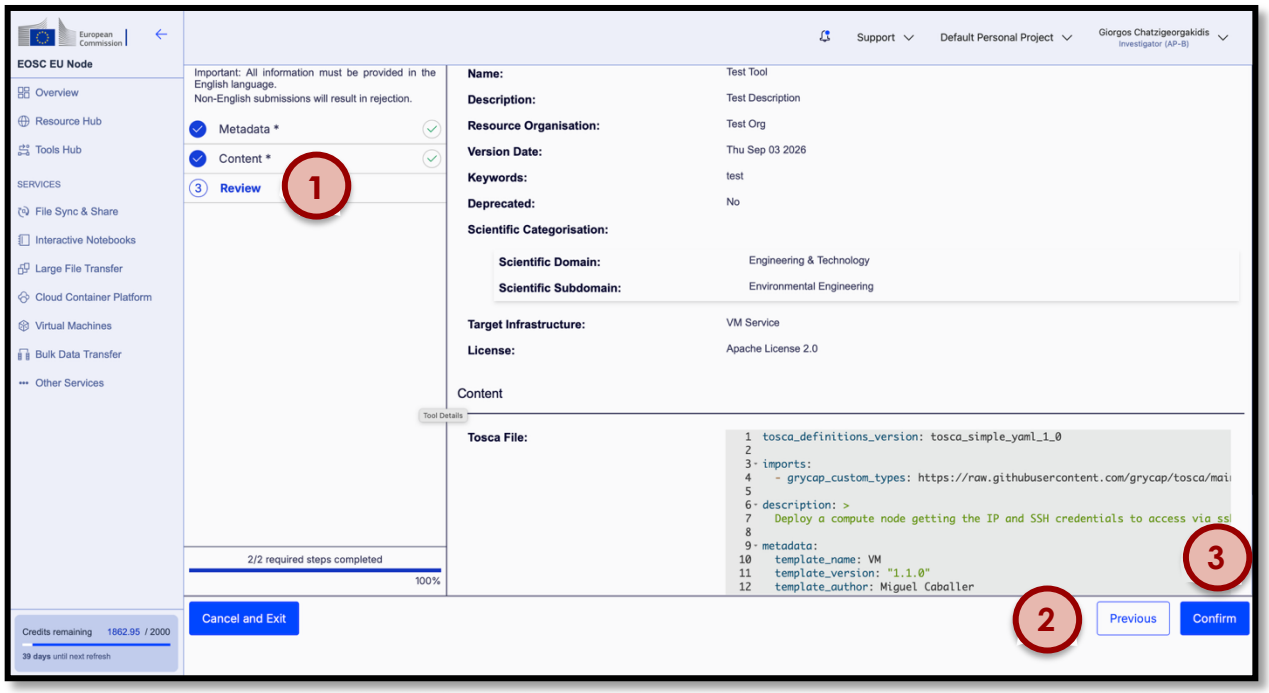


- In the **Content** step of the tool creation wizard, you must provide the content of the tool, by uploading a TOSCA template in YAML format. To find out more about TOSCA templates, please visit this webpage - (1)
- Please note that in case your TOSCA template deploys an OpenStack environment **on the PSNC site** that requires a GPU, the availability zone (i.e., *BST1-Proxima*) must be declared by adding the following code to your template:

```
- deploy_on_az:
  type: tosca.policies.indigo.Placement
  properties: { availability_zone: BST1-Proxima }
  targets: [ simple_node ]
```

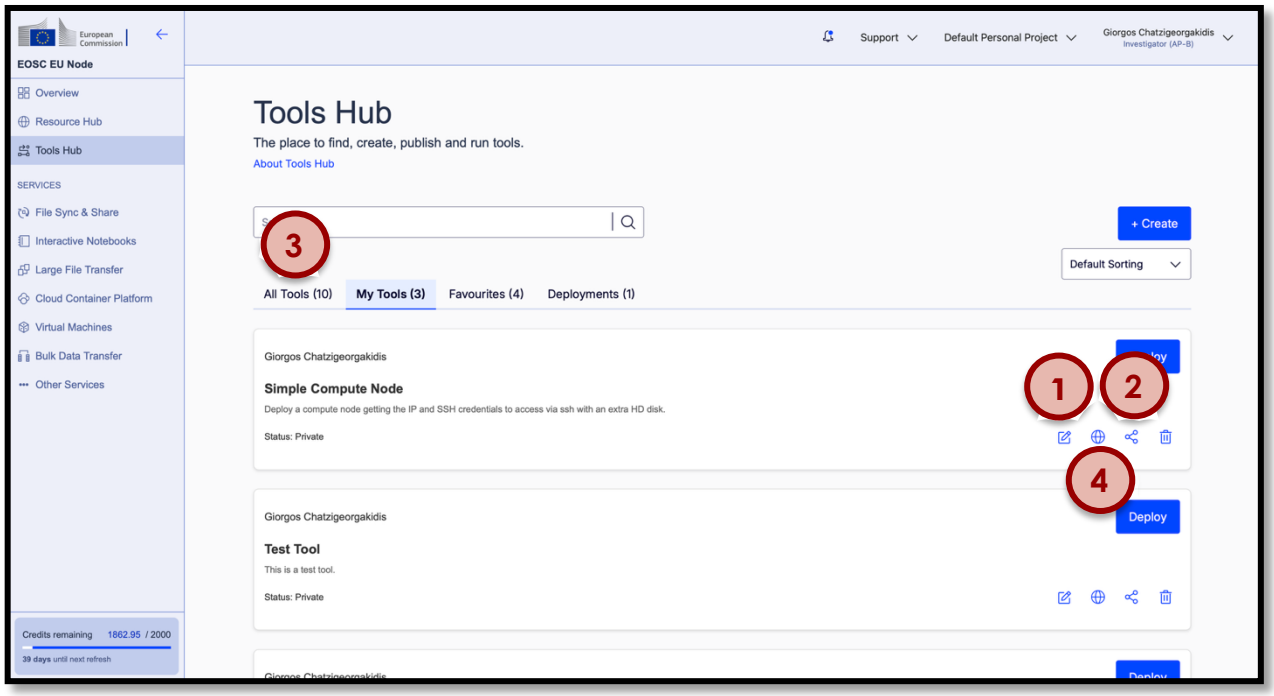
  where in "`targets`", "`simple_node`" should be replaced by the list of compute nodes in the template.
- To upload an existing TOSCA template, you may on the **Choose file** button. Once the file is uploaded, the button text changes to **Replace file**. You may click on it to upload a different TOSCA 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)



- 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)
- Finally, to create your tool, you must click on the **Confirm** button - (3)
- 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 the 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 the 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)