A black background with white text

Description automatically generated

A Meta Operating System for Brokering Hyper-Distributed Applications on Cloud Computing Continuums

**Annex 2.1**

**NebulOuS Open Call #2**

**Technical verification form (template)**

**INSTRUCTIONS**

**The structure of this template MUST be followed when preparing your proposal.** Applicants using other kind of template/ document structure will be automatically considered ineligible.

This annex serves as a **mandatory technical verification document** to be submitted as part of the technical proposal. It is designed to assess the **technical feasibility** of the proposed solutions, ensuring they meet the **minimum technical eligibility requirements** for NebulOuS Open Call #2 as described in Section 4 of the NebulOuS Open Call #2 Guidelines for applicants. All documents are available at: <https://nebulouscloud.eu/open-call-2/>.

* Ensure all sections are completed before submission.
* Enclose supporting documents or provide working links in the evidence table.
* Submit this form along with the full proposal via the designated submission platform.

**Rules:**

* The page limit for the full annex is **4 pages** (cover pages and general information sheet are not included within the 3-page limit).
* The allowed font type is “**Crimson Pro** “and the minimum **font size is 11** points.
* It is mandatory to upload the document in PDF format.
* If you attempt to upload an Annex longer than the specified limit, your proposal may not be taken into consideration by the evaluators.
* **ENGLISH is the only eligible language of the proposal.**

*!!!! Delete this page and guidance text in highlighted blue in each section when submitting the proposal!!!*

# General Information

|  |  |  |
| --- | --- | --- |
|  | **Applicant 1** | **Applicant [[1]](#footnote-2)**  **(if applicable)** |
| Name of Organisation |  |  |
| Organisation representative Name, Last name, position in the organisation |  |  |
| E-mail |  |  |
| Project Title |  | |
| Project acronym |  | |
| Challenge name**[[2]](#footnote-3)** |  | |

# Technical Eligibility Checklist

## **self assessment check-list including proof of evidence**

*(Tick appropriate boxes to confirm compliance and provide evidence to the column acording to instructions)*

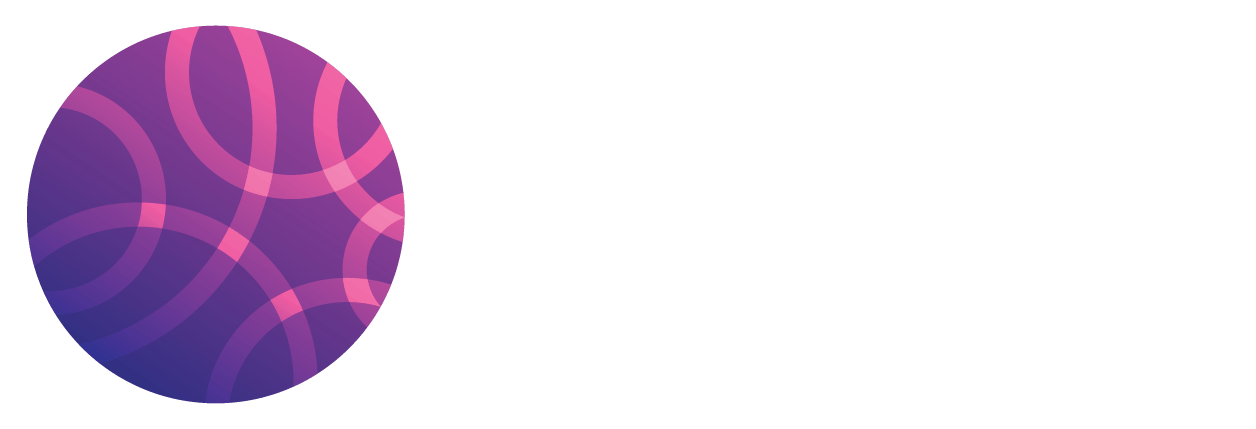
|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| ****TECHNICAL REQUIREMENTS CHECKLIST**** | | | | |
| ****Technical requirements according to *Section 4.4 APPLICANT TECHNICAL REQUIREMENTS*, of the**** [**NebulOuS Open Call #2 Guidelines for applicants**](https://nebulouscloud.eu/wp-content/uploads/2025/01/NebulOuS-Open-Call-2-Guidelines-for-applicants.pdf) | | ****Yes**** | ****No**** | ****Evidence**** |
| **1** | **Does the applicant have an existing application that has already been tested in a relevant environment resembling real-world operational conditions, and can they modify the source code to adapt it to NebulOuS requirements?** |  |  | *Provide evidence (screenshots, reports, news pieces, code repository, etc…) that the application exists and has been tested in a relevant environment.* |
| **2** | **Is the application containerized and deployable using technologies like Docker Compose, Kubernetes, K3s, or KubeVela…?** |  |  | *Provide the definition of your application in Docker-compose, Kubernetes, K3s, Kubevela, etc.* |
| **3** | **Does the application have at least one component that can run on edge devices?** |  |  | *Provide a list of the components that can be deployed on edge.* |
| **4** | **Does the applicant provide edge devices for deploying some application components, ensuring they can run Ubuntu 22.04, have at least 4 CPU cores and 4GB RAM, and meet the necessary network accessibility requirements?** |  |  | *Provide a list of these edge devices that will be used for testing the deployment of your app.*  *Confirm that the proposed edge devices support Ubuntu 22.04 and have at least 4CPU and 4GB RAM by providing model number.*  *Confirm that each proposed edge devices have a public IP and two ports TCP and UDP accessible from internet.* |
| **5** | **Does the applicant provide credentials to a cloud account (AWS or OpenStack) that allows NebulOuS to automatically create VMs for application deployment, ensuring OpenStack is publicly reachable from the internet if used?** |  |  | *Provide details on the cloud provider (AWS or OpenStack) that you will be using to deploy the application.* |
| **6** | **Are at least two components of the application scalable based on incoming workload fluctuations, with Service Level Objectives driven by at least two infrastructure-level metrics and two application or data/workload-related metrics published by the application itself?** |  |  | *Provide details on the application components that require scaling based on the incoming workload of the application.*  *Identify the infrastructure/application metrics that indicate the need for scaling.* |

## **Brief Summary of Validation (Max 300 words)**

* Describe the tests conducted to validate the solution's compliance with technical feasibility requirements.
* Explain how the system was validated in a relevant environment.
* Outline future plans for further validation and improvement by the end of the project.

Add text

t



Funded by the European Union. Views and opinions expressed are however those of the author(s) only and do not necessarily reflect those of the European Union or Directorate-General for Communications Networks, Content and Technology. Neither the European Union nor the granting authority can be held responsible for them.

A Meta Operating System for Brokering Hyper-Distributed Applications on Cloud Computing Continuums

1. only fill in the column related to organisation 2 if you apply as a consortium [↑](#footnote-ref-2)
2. Add the challenge you are applying to: Challenge 1 - Workflow application; Challenge 2 - IoT application; Challenge 3 -Serverless application; Challenge 4 - Open challenge. [↑](#footnote-ref-3)