

VESPA

Short description	VESPA (Virtual European Solar and Planetary Access) is a mature project, with 50 VESPA providers distributing open access datasets throughout the world (EU, Japan, USA).
Type of community	Thematic Services / Competence Centers / Business Cases /Others
Community contact	Baptiste Cecconi baptiste.cecconi@obspm.fr Observatoire de Paris
Interviewer	Baptiste Grenier baptiste.grenier@egi.eu EGI Foundation
Date of interview	
Meetings	
Supporters	See VESPA-Cloud

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User stories



Instruction

Requirements are based on a user story, which is an informal, natural language description of one or more features of a software system. User stories are often written from the perspective of an end user or user of a system. Depending on the community, user stories may be written by various stakeholders including clients, users, managers or development team members. They facilitate sensemaking and communication, that is, they help software teams organize their understanding of the system and its context. Please do not confuse user story with system requirements. A user story is an informal description of a feature; a requirement is a formal description of need (See section later).

User stories may follow one of several formats or templates. The most common would be:

"As a <role>, I want <capability> so that <receive benefit>"

"In order to <receive benefit> as a <role>, I want <goal/desire>"

"As <persona>, I want <what?> so that <why?>" where a persona is a fictional stakeholder (e. g. user). A persona may include a name, picture; characteristics, behaviours, attitudes, and a goal which the product should help them achieve.

Example:

"As provider of the Climate gateway I want to empower researchers from academia to interact with datasets stored in the Climate Catalogue, and bring their own applications to analyse this data on remote cloud servers offered via EGI."

No.	User stories
US0	I am a small data provider willing to join VESPA, but I don't have any IT support team to implement and maintain a VESPA server. I want to share my data products so that the community can find and use my datasets. Thanks to VESPA-Cloud, I can set up a VESPA data service, focussing on the science interface, and let the VESPA team manage the server.
US1	As a VESPA-Cloud admin I want to create a pre-configured science-enabled VM to be instantiated on demand for VESPA providers and dynamically configured for them.
US2	As a VESPA-Cloud admin I want to manage authentication and authorisation to e-infrastructures (EGI and EUDAT) resources using eduTEAMS as my community AAI.
US3	As a VESPA-Cloud admin I want to manage authentication and authorisation to the VESPA-Cloud server instance via SSH or HTTPS using eduTEAMS as my community AAI.

US4	As a VESPA-Cloud admin I want to monitor the status of my deployments and be warned in case of problems.
US5	As a VESPA-Cloud admin I want to collect accounting information about access to the scientific data.
US6	As a VESPA provider I can configure my VESPA metadata ingestion scripts on the VESPA gitlab server and push it to my VESPA-cloud instance.
US7	As a VESPA provider, I can upload my data via EUDAT/B2SAFE (iRODS) or object storage.
US8	As a VESPA provider I want to access a pre-configured Virtual Machine and access it over SSH to process my data accessed via EUDAT/B2SAFE (iRODS) or object storage.
US9	As a VESPA provider I can order a VESPA-Cloud service through the EOSC Marketplace.
US10	As a VESPA provider I want to have my service registered and harvested by B2FIND and IVOA registry to make it discoverable.
US11	As a VESPA end user I want to discover VESPA-Cloud data products through VESPA client and include them in my astronomy pipeline.

Use cases



Instruction

Technical plan: https://docs.google.com/document/d/1nc4aUrO8y39lt_wlvePI8GHxvRdGallC

A use case is a list of actions or event steps typically defining the interactions between a role (known in the Unified Modeling Language as an actor) and a system to achieve a goal.

Include in this section any diagrams that could facilitate the understanding of the use cases and their relationships.

Step	Description of action	Dependency on 3rd party services (EOSC-hub or other)
UC1	VESPA-Cloud administrators pre-configure a VM image with the VO framework.	CloudCompute, Check-in, eduTEAMS
UC2	VESPA-Cloud administrators setup auto-configuration of VM on deploy for a specific VESPA provider.	CloudCompute, Check-in, eduTEAMS
UC3	VESPA-Cloud administrators manage access to the VM instance via SSH or HTTPS using eduTEAMS	CloudCompute, Check-in, eduTEAMS
UC4	VESPA-Cloud administrators access and receive monitoring notifications for the VESPA-Cloud applications and VM instances.	CloudCompute, Check-in, eduTEAMS, ARGO
UC5	VESPA-Cloud administrators access accounting information about the scientific data in the VESPA Cloud VMs.	CloudCompute, Check-in, eduTEAMS
UC6	VESPA providers order VESPA-Cloud service through the EOSC Marketplace.	CloudCompute, Check-in, eduTEAMS, EOSC Marketplace, SOMBO
UC7	VESPA Providers access a VM via SSH with the VO framework installed	CloudCompute, Check-in, eduTEAMS
UC8	VESPA Providers access their data in the VM via VESPA Gitlab, B2SAFE or object storage.	CloudCompute, Check-in, eduTEAMS, B2ACCESS, B2SAFE
UC9	VESPA end-users discover VESPA-Cloud data products through VESPA client.	B2FIND, IVOA




Requirements




Technical Requirements



Instruction

- Requirement number: Use numbers RQ1, RQ2, RQ3, ...
- Requirement title: Use a short but descriptive title. Use the same title in the Jira ticket 'Summary' field
- Link to requirement JIRA ticket: Open a ticket in <this JIRA queue <https://jira.eosc-hub.eu/projects/EOSCWP10/issues/EOSCWP10-4?filter=allopenissues>> (click on 'CREATE' button in the middle-top of JIRA)
- Source use case: Refer back to the use cases above (UC1, 2, ...)

Requirement number	Requirement title	Link to Requirement JIRA ticket	Source Use Case
RQ1	Integrate eduTEAMS as community AAI and EGI Check-in as e-infrastructure AAI	 EOSCW P10-118 - Jira .	UC1, UC2, UC3
RQ2	Integrate eduTEAMS as community AAI and EUDAT B2ACCESS as e-infrastructure AAI	 EOSCW P10-119 - Jira .	UC8
RQ3	Interact with EGI ComputeCloud resources via authorisation managed in eduTEAMS.	Made possible by RQ1 implementation.	UC1, UC2, UC3
RQ4	Use eduTEAMS to manage access to SSH on EGI ComputeCloud VM using SSH keys.	To be discussed with eduTEAMS	UC1, UC2, UC3, UC7
RQ5	Monitor the VESPA Cloud applications using ARGO.	 EOSCW P10-120 - Jira .	UC4
RQ6	Collect accounting information about the scientific data in the VESPA Cloud VMs.	To be included in the VESPA-Cloud VM application and VMs.	UC5
RQ7	Allow to order VESPA-Cloud instances via the EOSC Marketplace	 EOSCW P10-121 - Jira .	UC6
RQ8	Access user data from the VM via VESPA gitlab	To be done internally at Observatoire de Paris	UC8

RQ9	Access user data from the VM via B2SAFE	 EOSCW P10-122 - Jira .	UC8
RQ10	Access user data from the VM via object storage	 EOSCW P10-123 - Jira .	UC8
RQ11	Make VESPA-Cloud produced data discoverable via B2FIND and IVOA.	 EOSCW P10-124 - Jira .	UC9

Capacity Requirements

EOSC-hub services	Amount of requested resources	Time period
EGI Cloud Compute	20 VM instances linux based (split evenly across 2 sites): 2 CPU per VM, 4GB RAM per VM, 20 GB disk per VM, 1 fixed DNS name per VM Ports open: 22, 80, 8080 5 remote ssh-key access per VM	Until end of EAP (end of 2020 as of now)
EGI Object Storage	2 x 2TB	Until end of EAP (end of 2020 as of now)
EUDAT B2SAFE	2TB accessible via iRODS	Until end of EAP (end of 2020 as of now)
GEANT eduTEAMS	Community AAI	Until end of EAP (end of 2020 as of now)
EGI Check-in	Gateway to EGI resources	Until end of EAP (end of 2020 as of now)
EUDAT B2ACCESS	Gateway to EUDAT resources	Until end of EAP (end of 2020 as of now)
EUDAT B2FIND	Harvesting of VESPA data	Until end of EAP (end of 2020 as of now)