

Marketplace

Introduction

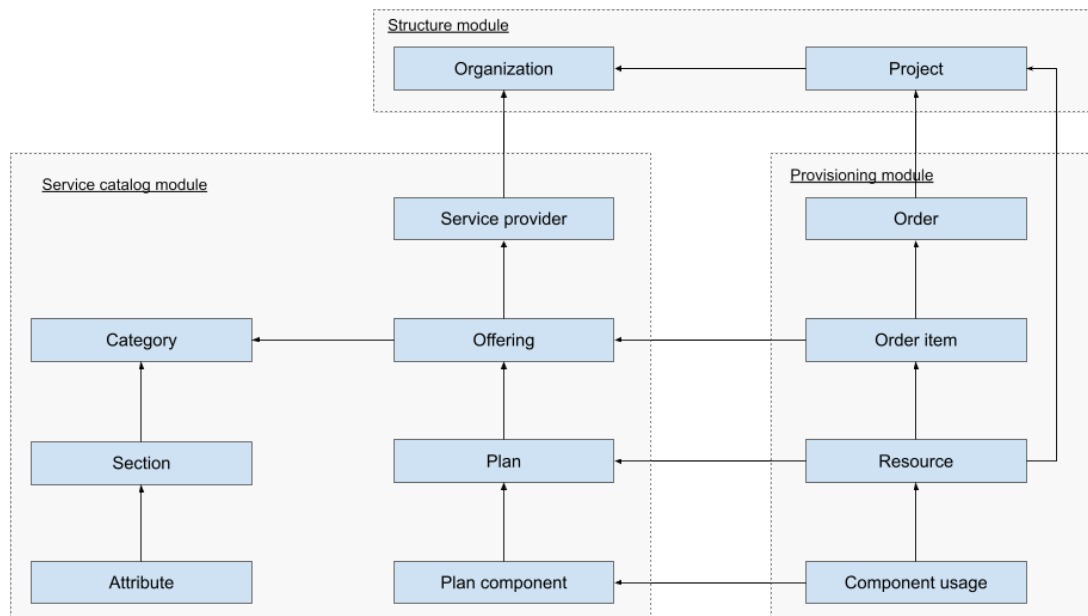
Marketplace is a central module for provisioning of Waldur resources. Marketplace contains Offerings that belong to a special type of Organizations - Service Providers. Marketplace provides common functionality for resource lifecycle management, accounting and invoicing. Specifics are implemented in the Marketplace plugins (e.g. for OpenStack, SLURM, Rancher, etc).

Terminology

Name	Description	Examples
Organization	Legal representation of the entity that can be a client of the Operator.	Ministry A, Department B
Project	Functionality in Self-Service Portal, which allows to group internal resources into projects, which allows to limit access to resources for people.	Internal systems, Public web
Service Provider	Organization can publish offerings in marketplace as soon as it is registered as service provider.	ETAIS, UT HPCC
Offering	Service Offering from Service Provider, which can be requested via a Marketplace. Correspond to an entry in the Service Catalogue.	VPS with LB, VDC in DataCenter 1
Category	A grouping of the Offerings defining metadata common to all offerings in this Category.	Compute, Storage, Operations
Section	Section is a named aggregate of offering attributes.	System information, Support, Security
Attribute	Attribute is an atomic piece of offering metadata, it has name, type and list of options.	Peak TFlop/s, Memory per node (GB)

Name	Description	Examples
Plan	An option for paying for a particular Offering. There can be multiple options but at each point in time only one Plan can be active.	Small private cloud, Big private cloud
Order	A collection of Order items. Considered as done when all Order Items have been processed.	3 different Offerings with configuration.
Order Item	Connects Offering with concrete Organization and configuration settings.	Small VPC with name "test"
Resource	Created as part of fulfilling the Order Item. Represents part of the Offering that customer Organization can use.	VM, VPC
Category component	Specifies unit of measurement, display name and internal name of the component, which should be present in every category offerings. It is used for aggregating offering component usage and rendering dashboard charts in both project and organization workspace.	vCPU, RAM, storage
Offering component	Usage-based component that constitute offering. It may refer to the category component via parent field in order to ensure that component usage is aggregated.	Database count, disk usage
Plan Component	Components that constitute a plan.	vCPU, RAM, storage, network bandwidth
Component usage	Collects reported resource usage for each plan component separately.	5 virtual floating IPs for the last month.

Diagram of concepts



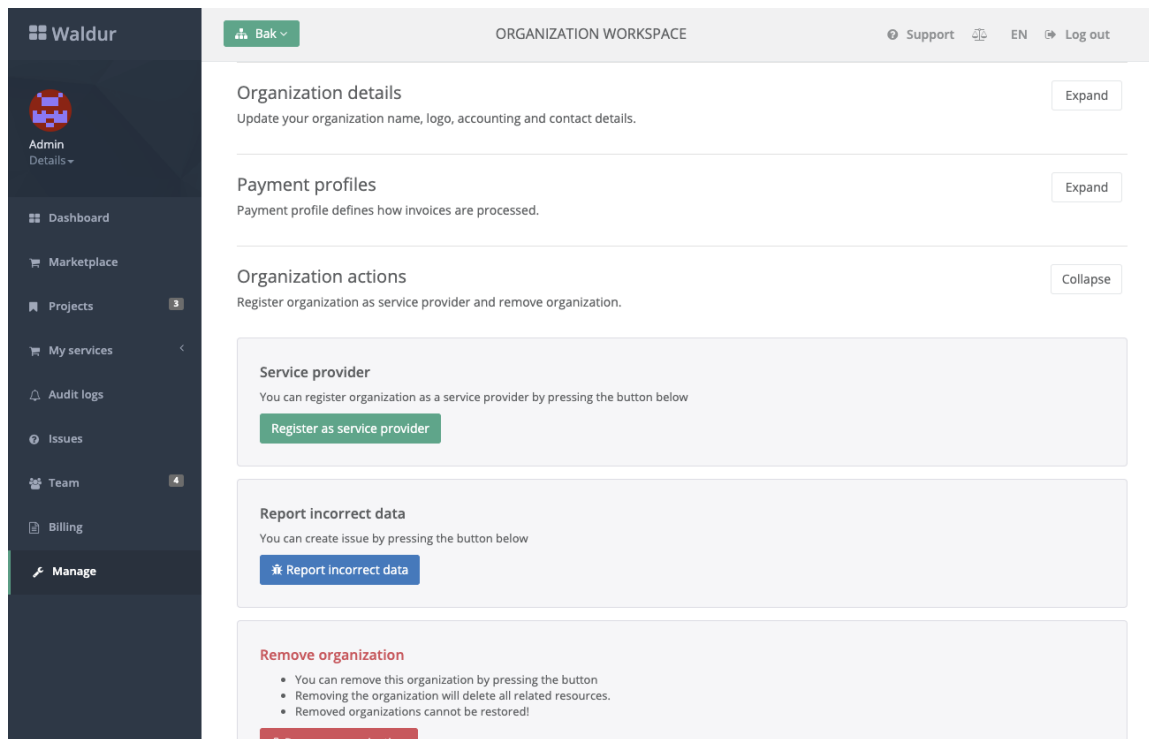
Adding a new Offering

To create a new Offering in the Marketplace, you need to:

- Assure that categories are configured in the Marketplace.
- Create at least one service provider.
- Create and activate a public offering.

Creating a Service Provider

Pick or create an organization that will be used as a service provider. Mark it as such in the Management tab of the organization using "Register as service provider":



Creating Marketplace categories

To create a category, either use administrative interface of Waldur, hosted under `/admin` (can be accessed by staff users) or use management command for loading the pre-defined categories.

- With Docker-compose deployment:

```
1 docker exec -t waldur-mastermind-worker waldur load_categories # vpc
vm storage ...
```

- With Helm deployment

Open waldur-mastermind-worker shell and execute the following command:

1. Get waldur-mastermind-worker pod name

```
1 # Example:
2 kubectl get pods -A | grep waldur-mastermind-worker # -->
3 # default      waldur-mastermind-worker-6d98cd98bd-wps8n    1/1
Running        0          9m9s
```

2. Connect to pod via shell

```
1 # Example:
2 kubectl exec -it waldur-mastermind-worker-6d98cd98bd-wps8n -- /bin/
  bash
```

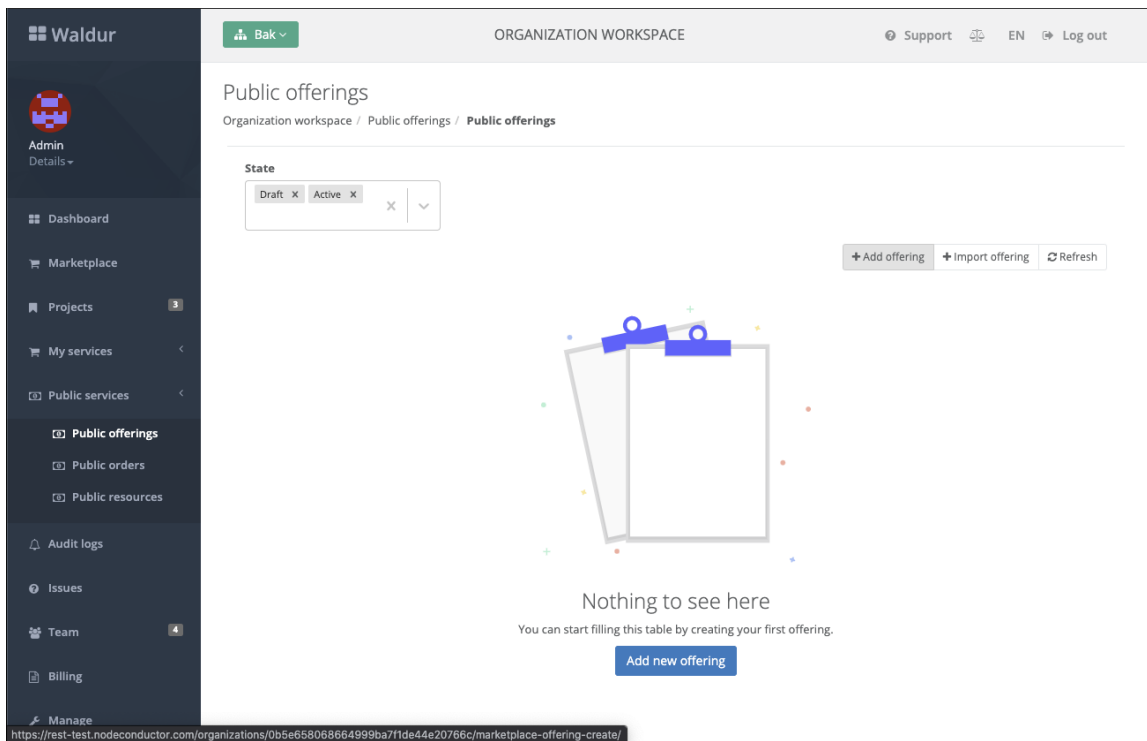
3. Execute command to see available or add a category

```
1 waldur load_categories # vpc vm
  storage ...
```

Creating public Offering

Once you have a service provider and at least one category defined, you can add a new service offering.

- Go to Public services -> Public offerings:



- Fill in details of the offerings.

Please fill in this field.

Admin Details

Dashboard

Marketplace

Projects 3

My services

Public services

Public offerings

Public orders

Public resources

Audit logs

Issues

Team 4

Billing

Manage

Bak

ORGANIZATION WORKSPACE

Support EN Log out

Add offering

Organization workspace / Public offerings / Add offering

1. Overview

2. Description

3. Management

4. Accounting

5. Review

Name *

Description

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x₂

Normal

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Full description

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x₂

Normal

T

- Activate an offering (requires staff account) to make it visible in the Marketplace.

Waldur

Admin Details

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Projects 4

My services

Public services

Public offerings

Public orders

Public resources

Audit logs

Issues

Team 10

Billing

Manage

All

ORGANIZATION WORKSPACE

Support EN Log out

Public offerings

Organization workspace / Public offerings

State

Draft X

Active X

X

Showing 1 to 2 of 2 entries.

Export as

+ Add offering

+ Import offering

Refresh

Name	Category	Created	State	Type	Actions
> another demo booking offering	AKKI	2021-04-07 14:14	Draft	Booking	<div>Actions</div> <div>Preview</div>
> demo offering	AKKI	2021-04-06 17:23	Active		<div>Activate</div> <div>Archive</div> <div>Edit</div> <div>Edit attributes</div> <div>Images</div> <div>Set location</div> <div>Sync with Google Calendar</div> <div>Publish as Google Calendar</div> <div>Preview</div>

Version: latest

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Last update: 2021-05-29