Arenadata™ Cluster Manager

Версия - adcm-pipeline

ReST API

2018 Arenadata™

Оглавление

1 ArenaData Cluster Manager API **3**

2 Intro **4**
- 2.1 API Sections . . . 4
- 2.2 cluster . . . 4
- 2.3 host . . . 14
- 2.4 job . . . 18
- 2.5 profile . . . 18
- 2.6 stack . . . 20
- 2.7 task . . . 22
- 2.8 token . . . 23
- 2.9 user . . . 23

3 ArenaData ADCM Status Server Api **25**

4 Intro **26**

5 API Sections **27**
- 5.1 Host/Component Status . . . 27
- 5.2 Cluster Service Status . . . 28
- 5.3 Job Status WebSocket . . . 28
- 5.4 Service Status WebSocket . . . 28

6 ArenaData ADCM Webscoket API **29**
- 6.1 Job Webscoket API . . . 29

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Глава 1

ArenaData Cluster Manager API

Version: 1.0

Глава 2

Intro

Cluster: Set of hosts and services

Host: Abstract container for components

Service: Set of components

Component: Peace of software

HostComponent: Map between hosts and components of services

Task: Service action at work. Consists of one or more jobs

Job: Minimal quantum of action. Run ansible playbook to do actual work

2.1 API Sections

cluster

host

job

profile

stack

task

token

user

2.2 cluster

2.2.1 list

GET `/api/v1/cluster/`

List of all existing clusters

2.2.2 create

POST `/api/v1/cluster/`

Create new cluster

Request Body

The request body should be a "**application/json**" encoded object, containing the following items.

2.2.3 read

GET `/api/v1/cluster/{cluster_id}/`

Show cluster

Path Parameters

The following parameters should be included in the URL path.

2.2.4 partial_update

PATCH `/api/v1/cluster/{cluster_id}/`

Edit cluster

Path Parameters

The following parameters should be included in the URL path.

Request Body

The request body should be a "**application/json**" encoded object, containing the following items.

2.2.5 delete

DELETE `/api/v1/cluster/{cluster_id}/`

Remove cluster

Path Parameters

The following parameters should be included in the URL path.

2.2.6 action > list

GET `/api/v1/cluster/{cluster_id}/action/`

List all actions of a specified cluster

Path Parameters

The following parameters should be included in the URL path.

2.2.7 action > run > create

POST `/api/v1/cluster/{cluster_id}/action/{action_id}/run/`

Ran specified action of a specified cluster

Path Parameters

The following parameters should be included in the URL path.

Request Body

The request body should be a "**application/json**" encoded object, containing the following items.

2.2.8 bind > list

GET `/api/v1/cluster/{cluster_id}/bind/`

List all binds of specified cluster

Path Parameters

The following parameters should be included in the URL path.

2.2.9 bind > create

POST `/api/v1/cluster/{cluster_id}/bind/`

Bind two cluster

Path Parameters

The following parameters should be included in the URL path.

2.2.10 bundle > list

GET `/api/v1/cluster/{cluster_id}/bundle/`

List all services of specified cluster of bundle

Path Parameters

The following parameters should be included in the URL path.

2.2.11 config > list

GET `/api/v1/cluster/{cluster_id}/config/`

Show current config for a specified service and cluster

Path Parameters

The following parameters should be included in the URL path.

2.2.12 config > create

POST `/api/v1/cluster/{cluster_id}/config/`

Update config in a specified service and cluster. Config parameter is json

Path Parameters

The following parameters should be included in the URL path.

Request Body

The request body should be a "**application/json**" encoded object, containing the following items.

2.2.13 config > read

GET `/api/v1/cluster/{cluster_id}/config/{version}/`

Show config for a specified version, service and cluster.

version=**previous** show previous version of config

version=**current** show current version of config

Path Parameters

The following parameters should be included in the URL path.

2.2.14 config > current > list

GET `/api/v1/cluster/{cluster_id}/config/current/`

Show config for a specified version, service and cluster.

version=**previous** show previous version of config

version=**current** show current version of config

Path Parameters

The following parameters should be included in the URL path.

2.2.15 config > history > list

GET `/api/v1/cluster/{cluster_id}/config/history/`

Show history of config in a specified service and cluster

Path Parameters

The following parameters should be included in the URL path.

2.2.16 config > previous > list

GET `/api/v1/cluster/{cluster_id}/config/previous/`

Show config for a specified version, service and cluster.

version=**previous** show previous version of config

version=**current** show current version of config

Path Parameters

The following parameters should be included in the URL path.

2.2.17 config > restore > partial_update

PATCH `/api/v1/cluster/{cluster_id}/config/{version}/restore/`

Restore config of specified version in a specified service and cluster.

Path Parameters

The following parameters should be included in the URL path.

Request Body

The request body should be a "**application/json**" encoded object, containing the following items.

2.2.18 host > list

GET `/api/v1/cluster/{cluster_id}/host/`

List all hosts of a specified cluster

Path Parameters

The following parameters should be included in the URL path.

2.2.19 host > create

POST `/api/v1/cluster/{cluster_id}/host/`

Path Parameters

The following parameters should be included in the URL path.

Request Body

The request body should be a "**application/json**" encoded object, containing the following items.

2.2.20 host > read

GET `/api/v1/cluster/{cluster_id}/host/{host_id}/`

Show host of cluster

Path Parameters

The following parameters should be included in the URL path.

2.2.21 host > delete

DELETE `/api/v1/cluster/{cluster_id}/host/{host_id}/`

Remove host from cluster

Path Parameters

The following parameters should be included in the URL path.

2.2.22 host > action > list

GET `/api/v1/cluster/{cluster_id}/host/{host_id}/action/`

List all actions of a specified host in a specified cluster

Path Parameters

The following parameters should be included in the URL path.

2.2.23 host > action > run > create

POST `/api/v1/cluster/{cluster_id}/host/{host_id}/action/{action_id}/run/`

Ran specified action of a specified host in a specified cluster

Path Parameters

The following parameters should be included in the URL path.

Request Body

The request body should be a "**application/json**" encoded object, containing the following items.

2.2.24 hostcomponent > list

GET `/api/v1/cluster/{cluster_id}/hostcomponent/`

Show host <-> component map in a specified cluster

Path Parameters

The following parameters should be included in the URL path.

2.2.25 hostcomponent > create

POST `/api/v1/cluster/{cluster_id}/hostcomponent/`

Create new mapping service:component <-> host in a specified cluster.

Path Parameters

The following parameters should be included in the URL path.

Request Body

The request body should be a "**application/json**" encoded object, containing the following items.

2.2.26 hostcomponent > read

GET `/api/v1/cluster/{cluster_id}/hostcomponent/{hs_id}/`

Show host <-> component link in a specified cluster

Path Parameters

The following parameters should be included in the URL path.

2.2.27 import > list

GET `/api/v1/cluster/{cluster_id}/import/`

List all imports avaliable for specified cluster

Path Parameters

The following parameters should be included in the URL path.

2.2.28 service > list

GET `/api/v1/cluster/{cluster_id}/service/`

List all services of a specified cluster

Path Parameters

The following parameters should be included in the URL path.

2.2.29 service > create

POST `/api/v1/cluster/{cluster_id}/service/`

Add service to specified cluster

Path Parameters

The following parameters should be included in the URL path.

Request Body

The request body should be a "**application/json**" encoded object, containing the following items.

2.2.30 service > read

GET `/api/v1/cluster/{cluster_id}/service/{service_id}/`

Show service in a specified cluster

Path Parameters

The following parameters should be included in the URL path.

2.2.31 service > action > list

GET `/api/v1/cluster/{cluster_id}/service/{service_id}/action/`

List all actions of a specified service

Path Parameters

The following parameters should be included in the URL path.

2.2.32 service > action > run > create

POST `/api/v1/cluster/{cluster_id}/service/{service_id}/action/{action_id}/run/`

Ran specified action of a specified service in cluster

Path Parameters

The following parameters should be included in the URL path.

Request Body

The request body should be a "**application/json**" encoded object, containing the following items.

2.2.33 service > config > list

GET `/api/v1/cluster/{cluster_id}/service/{service_id}/config/`

Show current config for a specified service and cluster

Path Parameters

The following parameters should be included in the URL path.

2.2.34 service > config > create

POST `/api/v1/cluster/{cluster_id}/service/{service_id}/config/`

Update config in a specified service and cluster. Config parameter is json

Path Parameters

The following parameters should be included in the URL path.

Request Body

The request body should be a "**application/json**" encoded object, containing the following items.

2.2.35 service > config > read

GET `/api/v1/cluster/{cluster_id}/service/{service_id}/config/{version}/`

Show config for a specified version, service and cluster.

version=**previous** show previous version of config

version=**current** show current version of config

Path Parameters

The following parameters should be included in the URL path.

2.2.36 service > config > current > list

GET `/api/v1/cluster/{cluster_id}/service/{service_id}/config/current/`

Show config for a specified version, service and cluster.

version=**previous** show previous version of config

version=**current** show current version of config

Path Parameters

The following parameters should be included in the URL path.

2.2.37 service > config > history > list

GET `/api/v1/cluster/{cluster_id}/service/{service_id}/config/history/`

Show history of config in a specified service and cluster

Path Parameters

The following parameters should be included in the URL path.

2.2.38 service > config > previous > list

GET `/api/v1/cluster/{cluster_id}/service/{service_id}/config/previous/`

Show config for a specified version, service and cluster.

version=**previous** show previous version of config

version=**current** show current version of config

Path Parameters

The following parameters should be included in the URL path.

2.2.39 service > config > restore > partial_update

PATCH `/api/v1/cluster/{cluster_id}/service/{service_id}/config/{version}/restore/`

Restore config of specified version in a specified service and cluster.

Path Parameters

The following parameters should be included in the URL path.

Request Body

The request body should be a "**application/json**" encoded object, containing the following items.

2.2.40 service > hostcomponent > list

GET `/api/v1/cluster/{cluster_id}/service/{service_id}/hostcomponent/`

Show host <-> component map in a specified service and cluster

Path Parameters

The following parameters should be included in the URL path.

2.2.41 upgrade > list

GET `/api/v1/cluster/{cluster_id}/upgrade/`

List all avaliable upgrades for specified cluster

Path Parameters

The following parameters should be included in the URL path.

2.2.42 upgrade > do > create

POST `/api/v1/cluster/{cluster_id}/upgrade/{upgrade_id}/do/`

Do upgrade specified cluster

Path Parameters

The following parameters should be included in the URL path.

2.3 host

2.3.1 list

GET `/api/v1/host/`

List all hosts

2.3.2 create

POST `/api/v1/host/`

Create new host in cluster

Request Body

The request body should be a "**application/json**" encoded object, containing the following items.

2.3.3 read

GET `/api/v1/host/{host_id}/`

Show host

Path Parameters

The following parameters should be included in the URL path.

2.3.4 delete

DELETE `/api/v1/host/{host_id}/`

Remove host (and all corresponding host services:components) from cluster

Path Parameters

The following parameters should be included in the URL path.

2.3.5 action > list

GET `/api/v1/host/{host_id}/action/`

List all actions of a specified host

Path Parameters

The following parameters should be included in the URL path.

2.3.6 action > run > create

POST `/api/v1/host/{host_id}/action/{action_id}/run/`

Ran specified action of a specified host

Path Parameters

The following parameters should be included in the URL path.

Request Body

The request body should be a "**application/json**" encoded object, containing the following items.

2.3.7 config > list

GET `/api/v1/host/{host_id}/config/`

Show current config for a specified host

Path Parameters

The following parameters should be included in the URL path.

2.3.8 config > create

POST `/api/v1/host/{host_id}/config/`

Update host config. Config parameter is json

Path Parameters

The following parameters should be included in the URL path.

Request Body

The request body should be a "**application/json**" encoded object, containing the following items.

2.3.9 config > read

GET `/api/v1/host/{host_id}/config/{version}/`

Show config for a specified version and host.

Path Parameters

The following parameters should be included in the URL path.

2.3.10 config > current > list

GET `/api/v1/host/{host_id}/config/current/`

Show config for a specified version and host.

Path Parameters

The following parameters should be included in the URL path.

2.3.11 config > history > list

GET `/api/v1/host/{host_id}/config/history/`

Show history of config of a specified host

Path Parameters

The following parameters should be included in the URL path.

2.3.12 config > previous > list

GET `/api/v1/host/{host_id}/config/previous/`

Show config for a specified version and host.

Path Parameters

The following parameters should be included in the URL path.

2.3.13 config > restore > partial_update

PATCH `/api/v1/host/{host_id}/config/{version}/restore/`

Restore config of specified version of a specified host.

Path Parameters

The following parameters should be included in the URL path.

Request Body

The request body should be a "**application/json**" encoded object, containing the following items.

2.3.14 upgrade > list

GET `/api/v1/host/{host_id}/upgrade/`

List all avaliable upgrades for specified host

Path Parameters

The following parameters should be included in the URL path.

2.3.15 upgrade > do > create

POST `/api/v1/host/{host_id}/upgrade/{upgrade_id}/do/`

Do upgrade specified cluster

Path Parameters

The following parameters should be included in the URL path.

2.4 job

2.4.1 list

GET `/api/v1/job/`

List last 30 jobs

2.4.2 read

GET `/api/v1/job/{job_id}/`

Show job

Path Parameters

The following parameters should be included in the URL path.

2.4.3 log > read

GET `/api/v1/job/{job_id}/log/{file}/`

Show log file

Path Parameters

The following parameters should be included in the URL path.

2.5 profile

2.5.1 list

GET `/api/v1/profile/`

List all existing user ' s profiles

2.5.2 create

POST `/api/v1/profile/`

Create new user profile

Request Body

The request body should be a "**application/json**" encoded object, containing the following items.

2.5.3 read

GET `/api/v1/profile/{username}/`

Show user profile

Path Parameters

The following parameters should be included in the URL path.

2.5.4 partial_update

PATCH `/api/v1/profile/{username}/`

Edit user profile

Path Parameters

The following parameters should be included in the URL path.

Request Body

The request body should be a "**application/json**" encoded object, containing the following items.

2.5.5 delete

DELETE `/api/v1/profile/{username}/`

delete user and profile

Path Parameters

The following parameters should be included in the URL path.

2.5.6 password > partial_update

PATCH `/api/v1/profile/{username}/password/`

Change user password

Path Parameters

The following parameters should be included in the URL path.

Request Body

The request body should be a "**application/json**" encoded object, containing the following items.

2.6 stack

2.6.1 list

GET `/api/v1/stack/`

Operations with stack of services

2.6.2 action > read

GET `/api/v1/stack/action/{action_id}/`

Show action

Path Parameters

The following parameters should be included in the URL path.

2.6.3 bundle > list

GET `/api/v1/stack/bundle/`

List all bundles

2.6.4 bundle > read

GET `/api/v1/stack/bundle/{bundle_id}/`

Show bundle

Path Parameters

The following parameters should be included in the URL path.

2.6.5 bundle > delete

DELETE `/api/v1/stack/bundle/{bundle_id}/`

Remove bundle

Path Parameters

The following parameters should be included in the URL path.

2.6.6 bundle > update > update

PUT `/api/v1/stack/bundle/{bundle_id}/update/`

update bundle

Path Parameters

The following parameters should be included in the URL path.

Request Body

The request body should be a "**application/json**" encoded object, containing the following items.

2.6.7 cluster > list

GET `/api/v1/stack/cluster/`

List all cluster types

2.6.8 cluster > read

GET `/api/v1/stack/cluster/{prototype_id}/`

Show cluster prototype

Path Parameters

The following parameters should be included in the URL path.

2.6.9 host > list

GET `/api/v1/stack/host/`

List all host types

2.6.10 host > read

GET `/api/v1/stack/host/{prototype_id}/`

Show host prototype

Path Parameters

The following parameters should be included in the URL path.

2.6.11 load > create

POST `/api/v1/stack/load/`

post: Load bundle

Request Body

The request body should be a "**application/json**" encoded object, containing the following items.

2.6.12 load > servicemap > update

PUT `/api/v1/stack/load/servicemap/`

2.6.13 service > list

GET `/api/v1/stack/service/`

List all stack services

2.6.14 service > read

GET `/api/v1/stack/service/{service_id}/`

Show stack service

Path Parameters

The following parameters should be included in the URL path.

2.6.15 service > action > list

GET `/api/v1/stack/service/{service_id}/action/`

List all actions of a specified service

Path Parameters

The following parameters should be included in the URL path.

2.6.16 upload > create

POST `/api/v1/stack/upload/`

Request Body

The request body should be a "**multipart/form-data**" encoded object, containing the following items.

2.7 task

2.7.1 list

GET `/api/v1/task/`

List last 20 tasks

2.7.2 create

POST `/api/v1/task/`

Create and run new task Return handler to new task

Request Body

The request body should be a "**application/json**" encoded object, containing the following items.

2.7.3 read

GET `/api/v1/task/{id}/`

Show task

Path Parameters

The following parameters should be included in the URL path.

2.8 token

2.8.1 create

POST `/api/v1/token/`

Request Body

The request body should be a "**application/json**" encoded object, containing the following items.

2.9 user

2.9.1 list

GET `/api/v1/user/`

List all existing users

2.9.2 create

POST `/api/v1/user/`

Create new user

Request Body

The request body should be a "**application/json**" encoded object, containing the following items.

2.9.3 read

GET `/api/v1/user/{username}/`

show user

Path Parameters

The following parameters should be included in the URL path.

2.9.4 delete

DELETE `/api/v1/user/{username}/`

delete user and profile

Path Parameters

The following parameters should be included in the URL path.

2.9.5 password > partial_update

PATCH `/api/v1/user/{username}/password/`

Change user password

Path Parameters

The following parameters should be included in the URL path.

Request Body

The request body should be a "**application/json**" encoded object, containing the following items.

Глава 3

ArenaData ADCM Status Server Api

Version: 1.2

Глава 4

Intro

Status Server is intended to story and show statuses of various services on all hosts across a cluster. All data are stored in RAM, so after restart all statuses will be lost. After s specified timeout (by default 2 minutes) stored status value for given host and service will be cleared out

Глава 5

API Sections

Host Component Status

Cluster Service Status

Job Status WebSocket

Service Status WebSocket

5.1 Host/Component Status

5.1.1 Read

GET `/status/api/v1/host/{host_id}/component/{component_id}/`

Show value of status value for specified host and component ids.

Path Parameters

The following parameters should be included in the URL path.

5.1.2 Create or Update

POST `/status/api/v1/host/{host_id}/component/{component_id}/`

Create new status value or update existing status value for specified host and component ids. Status should be integer. 0 means ok, any other number means error

Path Parameters

The following parameters should be included in the URL path.

Request Body

The request body should be a "**application/json**" encoded object, containing the following items.

5.2 Cluster Service Status

5.2.1 Read

GET `/status/api/v1/cluster/{cluster_id}/service/{service_id}/`

Show value of status value for specified cluster and service ids.

Path Parameters

The following parameters should be included in the URL path.

5.3 Job Status WebSocket

WS `/ws/job/`

Init webscoket with stream of task and job statuses. Any message in stream is a JSON in format:

`{"type":"job "id":5,"status":"run"}` or `{"type":"task "id":5,"status":"run"}`

5.4 Service Status WebSocket

WS `/ws/service/`

Init webscoket with stream of service statuses. Any message in stream is a JSON in format:

`{"type":"service "cluster":"1 "service":"5 "status":1}`

Глава 6

ArenaData ADCM Webscoket API

6.1 Job Webscoket API

To open WS make **GET** request to

```
"ws://" + document.location.host + "/ws/job/"
```

After that you start to recive **JSON** messages:

```
{"type":"job", "id":123, "status":"running"}
```

Statuses can be:

- running
- success
- failed