

akaBot Center API Guide

TABLE OF CONTENTS

1 Introduction 4

1.1 Overview 4

1.2 Authentication 4

2 Enumerated Types 5

2.1 RobotType 5

2.2 RobotState 6

2.3 JobState 6

2.4 JobCommand 6

2.5 JobSource 6

2.6 EnvironmentType 7

2.7 AssetType 7

2.8 ArgumentType 7

3 ENTITIES 8

3.1 User 8

3.2 Robot 8

3.3 OrganizationUnit 9

3.4 Environment 9

3.5 Packages 9

3.6 WorkFlowParameter 9

3.7 WorkFlow 10

3.8 Job 10

3.9 RobotMappingVM 11

3.10 HeartbeatDTO 11

3.11 Command 11

3.12 HeartbeatData 12

3.13 AssetVM 12

4 API Resources 13

4.1 Users 13

4.2 GetAssociatedProcesses 14

4.3 WorkFlows 15

4.4 WorkFlowVersion 17

4.5 Environments 18

4.6 StartJob 19

4.7 StopJob 20

4.8 GetJob 21

4.9 GetJobs 22

4.10 GetRobotMapping 24

4.11 GetRobots 25

4.12 SubmitHeartbeat 27

4.13 SubmitJobState 28

4.14 PushLogs 29

4.15 GetLogs 30

4.16 GetAsset 32

4.17 SetAsset 33

# Introduction

## Overview

This is an REST API that exposes entities and their relationships using well defined access, navigation and modification rules. The akaBot Center API Guide is meant to help you easily access and manage all resources available in the Center web interface.

*Node: All examples have been built using the http://botcenter.akabot.io Center address. Please use your own Center address when building requests*.

## Authentication

1. **Robot**

The authentication system for the akaBot Center API uses a bearer token. It requires you to use the robotKey and machineName.

To authenticate to the akaBot Center API do the following:

1. Make a POST request to the http://botcenter.akabot.io/api/Account URL



Request





Response



1. Copy to the Clipboard the token from the HTTP response, from the "id\_token"
2. The token must be used in all future requests, in the following format:



1. **Acount**

The authentication system for the akaBot Center API uses a bearer token. It requires you to use the username and password.

To authenticate to the akaBot Center API do the following:

1. Make a POST request to the http://botcenter.akabot.io/api/authenticate URL



Request





Response



1. Copy to the Clipboard the token from the HTTP response, from the "id\_token"
2. The token must be used in all future requests, in the following format:



# Enumerated Types

## RobotType

|  |  |
| --- | --- |
| **Name** | **Value** |
| DEVELOPMENT | 0 |
| ASSITANT | 1 |
| STAGING | 2 |
| PRODUCTION | 3 |

## RobotState

|  |  |
| --- | --- |
| **Name** | **Value** |
| AVAILABLE | 0 |
| BUSY | 1 |
| DISCONNECTED | 2 |
| UNRESPONSIVE | 3 |

## JobState

|  |  |
| --- | --- |
| **Name** | **Value** |
| PENDING | 0 |
| RUNNING | 1 |
| STOPPING | 2 |
| TERMINATING | 3 |
| FAULTED | 4 |
| SUCCESSFUL | 5 |
| STOPPED | 6 |

## JobCommand

|  |  |
| --- | --- |
| **Name** | **Value** |
| START | 0 |
| KILL | 1 |
| STOP | 2 |
| NONE | 3 |

## JobSource

|  |  |
| --- | --- |
| **Name** | **Value** |
| MANUAL | 0 |
| SCHEDULE | 1 |
| AGENT | 2 |

## EnvironmentType

|  |  |
| --- | --- |
| **Name** | **Value** |
| DEV | 0 |
| TEST | 1 |
| PROD | 2 |

## AssetType

|  |  |
| --- | --- |
| **Name** | **Value** |
| STRING | 0 |
| BOOL | 1 |
| INTEGER | 2 |
| CREDENTIAL | 3 |

## ArgumentType

|  |  |
| --- | --- |
| **Name** | **Value** |
| STRING | 0 |
| BOOL | 1 |
| INTEGER | 2 |

# ENTITIES

## User

|  |  |  |
| --- | --- | --- |
| **Name** | **Type** | **Description** |
| id | Integer |  |
| login | String | Username |
| firstName | String |  |
| lastName | String |  |
| email | String |  |
| imageUrl | String |  |
| activated | Boolean |  |
| langKey | String |  |
| password | String |  |
| authorities | Array[String] | List roles |

## Robot

|  |  |  |
| --- | --- | --- |
| **Name** | **Type** | **Description** |
| id | Integer |  |
| key | String |  |
| name | String |  |
| description | String |  |
| machineName | String |  |
| userName | String |  |
| password | String |  |
| type | RobotType |  |

## OrganizationUnit

|  |  |  |
| --- | --- | --- |
| **Name** | **Type** | **Description** |
| id | Integer |  |
| name | String |  |
| description | String |  |

## Environment

|  |  |  |
| --- | --- | --- |
| **Name** | **Type** | **Description** |
| id | Integer |  |
| name | String |  |
| description | String |  |
| origanizationUnit | OrganizationUnit |  |
| robots | Array[Robot] |  |
| type | EnvironmentType |  |

## Packages

|  |  |  |
| --- | --- | --- |
| **Name** | **Type** | **Description** |
| id | Integer |  |
| name | String |  |
| description | String |  |
| version | String |  |
| fileName | String |  |
| status | Bool |  |

## WorkFlowParameter

|  |  |  |
| --- | --- | --- |
| **Name** | **Type** | **Description** |
| id | Integer |  |
| name | String |  |
| value | String |  |
| type | ArgumentType |  |

## WorkFlow

|  |  |  |
| --- | --- | --- |
| **Name** | **Type** | **Description** |
| id | Integer |  |
| name | String |  |
| processKey | String |  |
| description | String |  |
| title | String |  |
| version | String |  |
| environment | Environment |  |
| packages | Packages |  |
| parameters | Array[WorkFlowParameter] |  |

## Job

|  |  |  |
| --- | --- | --- |
| **Name** | **Type** | **Description** |
| id | Integer |  |
| jobKey | String |  |
| state | JobState |  |
| startTime | DateTime |  |
| endTime | DateTime |  |
| source | JobSource |  |
| command | JobCommand |  |
| robotId | Integer |  |
| workFlowId | Integer |  |
| processSchedulesId | Integer |  |
| info | String |  |

## RobotMappingVM

|  |  |  |
| --- | --- | --- |
| **Name** | **Type** | **Description** |
| id | Integer |  |
| robotName | String |  |
| robotKey | String |  |
| machineName | String |  |
| user | String |  |
| robotType | RobotType |  |

## HeartbeatDTO

|  |  |  |
| --- | --- | --- |
| **Name** | **Type** | **Description** |
| robotKey | String |  |
| robotState | RobotState |  |
| info | String |  |
| jobKey | String |  |
| jobState | JobState |  |
| processKey | String |  |

## Command

|  |  |  |
| --- | --- | --- |
| **Name** | **Type** | **Description** |
| robotKey | String |  |
| type | JobCommand |  |
| source | JobSource |  |
| id | Integer |  |
| packageId | String |  |
| packageVersion | String |  |
| packagePath | String |  |
| userName | String |  |
| password | String |  |
| processKey | String |  |
| processName | String |  |
| parameters | Collection(WorkFlowParameter) |  |

## HeartbeatData

|  |  |  |
| --- | --- | --- |
| **Name** | **Type** | **Description** |
| robotKey | String |  |
| userName | String |  |
| robotName | String |  |
| data | Command |  |

## AssetVM

|  |  |  |
| --- | --- | --- |
| **Name** | **Type** | **Description** |
| name | String |  |
| type | AssetType |  |
| robotKey | String |  |
| userName | String |  |
| password | String |  |
| value | String |  |

# API Resources

Following API endpoint and resources are exposed to be accessible with appropriate authorization.

## Users

Get User collections. Supported methods: Get

**Parameters**

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Type** | **Required** | **Description** |
| organizationUnitId | Integer | False |  |
| searchuser | String | False | Login(username) |
| page | Integer | False | Page number of the requested page |
| size | Integer | False | Size of a page(top) |
| sort | String | False | Sorting criteria in the format: property(,asc|desc)Ex: login,asc |

**Response**

ReturnType: Collection(User)

**Example**:

Make a GET request to the http://botcenter.akabot.io/api/users URL



**Params**:



**Headers**:



**Response:**



## GetAssociatedProcesses

Returns a collection of all available associated process of a Agent. Supported methods: Get

**Parameters**

|  |  |  |
| --- | --- | --- |
| **Name** | **Type** | **Description** |
| robotKey | String |  |

**Response**

ReturnType: Collection(WorkFlow)

**Example**:

Make a GET request to the http://botcenter.akabot.io/api/robotsservice/GetAssociatedProcesses URL



**Params**:



**Headers**:



**Response**:



## WorkFlows

Get WorkFlow collections. Supported methods: Get

**Parameters**

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Type** | **Required** | **Description** |
| organizationUnitId | Integer | False |  |
| environmentId | Integer | False | Agent Group ID |
| environmentName | String | False | Agent Group Name |
| workflowId | Integer | False |  |
| workflowName | String | False |  |
| page | Integer | False | Page number of the requested page |
| size | Integer | False | Size of a page(top) |
| sort | String | False | Sorting criteria in the format: property(,asc|desc)Ex: name,asc |

**Response**

ReturnType: Collection(WorkFlow)

**Example**:

Make a GET request to the http://botcenter.akabot.io/api/work-flows URL



**Params**:



**Headers**:



**Response**:



## WorkFlowVersion

Get WorkFlow version. Supported methods: Get

**Parameters**

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Type** | **Required** | **Description** |
| workflowId | Long | True |  |

**Response**

ReturnType: String

**Example**:

Make a GET request to the http://botcenter.akabot.io/api/workflowversion URL



**Params**:



**Headers**:



**Response**:

1.0.12380.19828

## Environments

Get Agent Group. Supported methods: Get

**Parameters**

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Type** | **Required** | **Description** |
| organizationUnitId | Integer | False |  |
| environmentname | String | False | Agent Group Name |
| page | Integer | False | Page number of the requested page |
| size | Integer | False | Size of a page(top) |
| sort | String | False | Sorting criteria in the format: property(,asc|desc)Ex: name,asc |

**Response**

ReturnType: Collection(Environment)

**Example**:

Make a GET request to the http://botcenter.akabot.io/api/environments URL



**Params**:



**Headers**:



**Response**:



## StartJob

Adds a new job and sets it in Pending state for each Agent based on the input parameters and notifies the respective Agents about the pending job. HTTP method: Post

**Parameters**

|  |  |  |
| --- | --- | --- |
| **Name** | **Type** | **Description** |
| jobDTO | Job |  |

**Response**

ReturnType: Job

**Example**:

Make a POST request to the http://botcenter.akabot.io/api/jobs URL



**Headers**:



**Request**:





**Response:**





## StopJob

Cancels or terminates the specified job. Supported methods: Put

**Parameters**

|  |  |  |
| --- | --- | --- |
| **Name** | **Type** | **Description** |
| id | Integer | jobId |
| value | String(STOP, KILL) |  |

**Response**

ReturnType: Job

**Example**:

Make a PUT request to the http://botcenter.akabot.io/api/jobs/{id}/{value} URL



**Headers**:



**Response**



## GetJob

Get job information. Supported methods: Get

**Parameters**

|  |  |  |
| --- | --- | --- |
| **Name** | **Type** | **Description** |
| id | Integer | jobId |

**Response**

ReturnType: Job

**Example**:

Make a GET request to the http://botcenter.akabot.io/api/jobs/{id} URL



**Headers**:



**Response**



## GetJobs

Get Job collections. Supported methods: Get

**Parameters**

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Type** | **Required** | **Description** |
| organizationUnitId | Integer | False |  |
| environmentId | Integer | False | Agent Group ID |
| robotId | Integer | False |  |
| scheduleId | Integer | False |  |
| state | String | False | (PENDING, RUNNING, STOPPED, FAULTED, SUCCESSFUL).Supported multiple states, separated by commas |
| page | Integer | False | Page number of the requested page |
| size | Integer | False | Size of a page(top) |
| sort | String | False | Sorting criteria in the format: property(,asc|desc)Ex: startTime,desc |

**Response**

ReturnType: Collection(Job)

**Example**:

Make a GET request to the http://botcenter.akabot.io/api/jobs URL



**Params**:



**Headers**:



**Response**:



## GetRobotMapping

Get robot mapping information. Supported methods: Get

**Parameters**

|  |  |  |
| --- | --- | --- |
| **Name** | **Type** | **Description** |
| licenseKey | String | Agent key |
| machineName | String |  |

**Response**

ReturnType: RobotMappingVM

**Example**:

Make a GET request to the http://botcenter.akabot.io/api/robotsservice/GetRobotMappings URL



**Params**:



**Headers**:



**Response**:



## GetRobots

Get Robot collections. Supported methods: Get

**Parameters**

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Type** | **Required** | **Description** |
| organizationUnitId | Integer | False |  |
| environmentId | Integer | False | Agent Group ID |
| robotId | Integer | False |  |
| robot\_type | Integer | False | DEVELOPMENT(0), ASSITANT(1), STAGING(2), PRODUCTION(3) |
| robot\_status | Integer | False | AVAILABLE(0), BUSY(1), DISCONNECTED(2), UNRESPONSIVE(3) |
| search | String | False | Agent name(robot name) |
| page | Integer | False | Page number of the requested page |
| size | Integer | False | Size of a page(top) |
| sort | String | False | Sorting criteria in the format: property(,asc|desc)Ex: name,asc |

**Response**

ReturnType: Collection(Robot)

**Example**:

Make a GET request to the http://botcenter.akabot.io/api/robots URL



**Params**:



**Headers**:



**Response**:



## SubmitHeartbeat

Submit status of agent and get list tasks command. Supported methods: Post

**Parameters**

|  |  |  |
| --- | --- | --- |
| **Name** | **Type** | **Description** |
| heartbeatDTO | HeartbeatDTO |  |

**Response**

ReturnType: HeartbeatData

**Example**:

Make a POST request to the http://botcenter.akabot.io/api/robotsservice/SubmitHeartbeat URL



**Request**:





**Headers**:



**Response**:



## SubmitJobState

Submit status of task from agent. Supported methods: Post

**Parameters**

|  |  |  |
| --- | --- | --- |
| **Name** | **Type** | **Description** |
| heartbeatDTO | HeartbeatDTO |  |

**Response**

**Example**:

Make a POST request to the http://botcenter.akabot.io/api/robotsservice/SubmitJobState URL



**Request**:





**Headers**:



**Response**:

1

## PushLogs

Push log to center. Supported methods: Post

**Parameters**

|  |  |  |
| --- | --- | --- |
| **Name** | **Type** | **Description** |
| robotName | String |  |
| messages | Array(String) |  |

**Response**

ReturnType: Bool

**Example**:

Make a POST request to the http://botcenter.akabot.io/api/logs/v1 URL



**Request**:





**Headers**:



**Response**:

True

## GetLogs

Get Log collections. Supported methods: Get

**Parameters**

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Type** | **Required** | **Description** |
| robotName | String | False |  |
| workflowId | Integer | False |  |
| level | Integer | False | OFF(0), FATAL(1), ERROR(2), WARNING(3), INFORMATION(4), DEBUG(5), VERBOSE(6) |
| jobId | String | False |  |
| queryString | String | False | Keyword to query from log message |
| page | Integer | False | Page number of the requested page |
| size | Integer | False | Size of a page(top) |
| sort | String | False | Sorting criteria in the format: property(,asc|desc)Ex: timeStamp,desc |

**Response**

ReturnType: Collection(Job)

**Example**:

Make a GET request to the http://botcenter.akabot.io/api/logs URL



**Params**:



**Headers**:



**Response**:



## GetAsset

Get asset information. Supported methods: Get

**Parameters**

|  |  |  |
| --- | --- | --- |
| **Name** | **Type** | **Description** |
| assetName | String |  |
| robotKey | String |  |

**Response**

ReturnType: AssetVM

**Example**:

Make a GET request to the http://botcenter.akabot.io/api/studioservice/GetAsset URL



**Params**:



**Headers**:



**Response**:



## SetAsset

Update value of asset. Supported methods: Post

**Parameters**

|  |  |  |
| --- | --- | --- |
| **Name** | **Type** | **Description** |
| assetVM | AssetVM |  |

**Response**

ReturnType: Bool

**Example**:

Make a POST request to the <http://botcenter.akabot.io/api/studioservice/SetAsset> URL



**Request**:





**Headers**:



**Response**:

True