
sticks Documentation

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Introduction

Sticks is a Security As A Service project aimed at integrating security tools inside Openstack.

Installation

2.1 Sticks installation and configuration

2.1.1 Install from source

There is no release of Sticks as of now, the installation can be done from the git repository.

Retrieve and install Sticks :

```
git clone git://git.openstack.org/stackforge/sticks
cd sticks
python setup.py install
```

This procedure installs the `sticks` python library and a few executables:

- `sticks-api`: API service

Install a sample configuration file :

```
mkdir /etc/sticks
cp etc/sticks/sticks.conf.sample /etc/sticks/sticks.conf
```

2.1.2 Configure Sticks

Edit `/etc/sticks/sticks.conf` to configure Sticks.

The following shows the basic configuration items:

```
[DEFAULT]
verbose = True
log_dir = /var/log/sticks

rabbit_host = RABBIT_HOST
rabbit_userid = openstack
rabbit_password = RABBIT_PASSWORD

# Class of tracking plugin, ie redmine, trac, etc.
#tracking_plugin=

# Name of sticks role (default: sticks)
#sticks_role_name=sticks

[auth]
```

```
username = sticks
password = STICKS_PASSWORD
tenant = service
region = RegionOne
url = http://localhost:5000/v2.0

[keystone_authtoken]
username = sticks
password = STICKS_PASSWORD
project_name = service
region = RegionOne
auth_url = http://localhost:5000/v2.0
auth_plugin = password

[database]
connection = mysql://sticks:STICKS_DBPASS@localhost/sticks

DEFAULT]
```

2.1.3 Setup the database and storage backend

MySQL/MariaDB is the recommended database engine. To setup the database, use the `mysql` client:

```
mysql -uroot -p << EOF
CREATE DATABASE sticks;
GRANT ALL PRIVILEGES ON sticks.* TO 'sticks'@'localhost' IDENTIFIED BY 'STICKS_DBPASS';
EOF
```

Run the database synchronisation scripts:

```
sticks-dbsync upgrade
```

Init the storage backend:

```
sticks-storage-init
```

2.1.4 Setup Keystone

Sticks uses Keystone for authentication.

To integrate Sticks to Keystone, run the following commands (as OpenStack administrator):

```
keystone user-create --name sticks --pass STICKS_PASS
keystone user-role-add --user sticks --role admin --tenant service
```

Create the Helpdesk service and its endpoints:

```
keystone service-create --name Sticks --type helpdesk
keystone endpoint-create --service-id SECURITY_SERVICE_ID \
  --publicurl http://localhost:8888 \
  --adminurl http://localhost:8888 \
  --internalurl http://localhost:8888
```

2.1.5 Start Sticks

Start the API service :

```
sticks-api --config-file /etc/sticks/sticks.conf
```

Architecture

API References

4.1 Sticks REST API (root)

GET /

Return the version list

Return type list(`APIVersion`)

type `APILink`

API link description.

Data samples:

Json

```
{
  "href": "http://127.0.0.1:8888/v1",
  "rel": "self",
  "type": "text/html"
}
```

XML

```
<value>
  <type>text/html</type>
  <rel>self</rel>
  <href>http://127.0.0.1:8888/v1</href>
</value>
```

href

Type unicode

URL of the link.

rel

Type unicode

Relationship with this link.

type

Type unicode

Type of link.

type APIMediaType

Media type description.

Data samples:

Json

```
{
  "base": "application/json",
  "type": "application/vnd.openstack.sticks-v1+json"
}
```

XML

```
<value>
  <base>application/json</base>
  <type>application/vnd.openstack.sticks-v1+json</type>
</value>
```

base

Type unicode

Base type of this media type.

type

Type unicode

Type of this media type.

type APIVersion

API Version description.

Data samples:

Json

```
{
  "id": "v1",
  "links": [
    {
      "href": "http://127.0.0.1:8888/v1",
      "rel": "self",
      "type": "text/html"
    }
  ],
  "media_types": [
    {
      "base": "application/json",
      "type": "application/vnd.openstack.sticks-v1+json"
    }
  ],
  "status": "STABLE",
  "updated": "2014-08-11T16:00:00Z"
}
```

XML

```
<value>
  <id>v1</id>
  <status>STABLE</status>
  <updated>2014-08-11T16:00:00Z</updated>
```

```

<links>
  <item>
    <type>text/html</type>
    <rel>self</rel>
    <href>http://127.0.0.1:8888/v1</href>
  </item>
</links>
<media_types>
  <item>
    <base>application/json</base>
    <type>application/vnd.openstack.sticks-v1+json</type>
  </item>
</media_types>
</value>

```

id**Type** unicode

ID of the version.

links**Type** list(APILink)

List of links to API resources.

media_types**Type** list(APIMediaType)

Types accepted by this API.

status**Type** Enum(EXPERIMENTAL, STABLE)

Status of the version.

updated**Type** unicode

Last update in iso8601 format.

4.2 Sticks REST API (v1)

4.2.1 Tickets

GET /v1/tickets

Return all tickets :type project: unicode

Return type TicketResourceCollection**GET /v1/tickets**

Return ticket :type ticket_id: unicode

Return type TicketResource**POST /v1/tickets**

Create a ticket :type data: TicketResource

Return type TicketResource

PUT /v1/tickets
Modify a ticket

DELETE /v1/tickets
Delete a ticket

type TicketResource
Type describing a ticket.

Data samples:

Json

```
{
  "project": "test_project",
  "title": "Ticket incident"
}
```

XML

```
<value>
  <title>Ticket incident</title>
  <project>test_project</project>
</value>
```

id

Type unicode

Id of the ticket.

project

Type unicode

Associated project of the ticket.

start_date

Type date

Start date.

status

Type unicode

Status.

title

Type unicode

Title of the ticket.

type TicketResourceCollection
A list of Tickets.

Data samples:

Json

```
{}
```

XML

`<value />`

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