# **Zato documentation for implementers**

## **Requirements**

* Ubuntu 16.04 LTS, 18.04 LTS (64-bit)
* Sudo rights

## **Installation steps**

* Install helper programs

sudo apt-get install apt-transport-https curl

sudo apt-get install software-properties-common

* Install an additional package on Ubuntu 16.04 LTS

sudo apt-get install python-software-properties

* Additional dependencies on Ubuntu 18.04 LTS

sudo add-apt-repository universe

sudo apt-get install tzdata

* Add the package signing key

curl -s https://zato.io/repo/zato-3.1-C9B13DF28CFE287D.pgp.txt | sudo apt-key add -

* Add Zato repository

sudo add-apt-repository \

"deb [arch=amd64] https://zato.io/repo/stable/3.1/py27/ubuntu $(lsb\_release -cs) main"

sudo apt-get update

* Install Zato

sudo apt-get install zato

* Install latest additions

sudo su - zato

cd /opt/zato/current

./update.sh

* Confirm the installation

ubuntu$ zato --version

Zato 3.1+rev.nnnnnnn-py2.7.n

ubuntu$

## **Creating a quick-start cluster**

Prepare as a zato user:

* An empty directory ($path), such as /opt/zato/zato\_cluster1
* Host, port and a password for connecting to Redis ($kvdb\_host, $kvdb\_port and $kvdb\_password)

Run the command below:

$ zato quickstart create $path sqlite $kvdb\_host $kvdb\_port \

--kvdb\_password $kvdb\_password --verbose

For example, to create a cluster with sqlite database:

$ zato quickstart create /opt/zato/zato\_cluster1 sqlite localhost 6379 \

--kvdb\_password '' --verbose

Quickstart cluster quickstart-962637 created

Web admin user: [admin], password: [Fc8-43IRUVeyWVgKtUR8YqXJSQriJt6x]

Note the highlighted line. This provides the zato web-admin username and password.

The above command will create the following:

* A development CA
* 2 servers
* An HA load-balancer in front of the two
* A web-admin panel instance and an admin user
* ODB structure in SQLite and Redis
* Scripts to (re-)start the environment and stop it

The password for web-admin is randomly generated which can be changed with the following command:

$ zato update password path username

An example in above quick start cluster:

$ zato update password /opt/zato\_cluster1/web-admin/ admin

Changing password for user 'admin'

Password:

Password (again):

The cluster can be started by issuing the command:

$ sudo su – zato

$ service zato start

$ /opt/zato/zato\_cluster1/zato-qs-start.sh

**Important TCP ports that will be used are:**

| **Port** | **Notes** |
| --- | --- |
| 11223 | Load-balancer’s HTTP port (this is what external applications use to invoke services you develop) |
| 17010 | server1’s HTTP port |
| 17011 | server2’s HTTP port |
| 8183 | Web admin’s HTTP port (this is where you point your browser to and log in as an admin user) |

References:

<https://zato.io/docs/admin/guide/install/py27/ubuntu.html>

<https://zato.io/docs/index.html>

<https://zato.io/docs/tutorial/01.html>

<https://zato.io/docs/tutorial/02.html>

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