



# PaaSAGE platform deployment HOW-TO

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# Introduction

- The PaaSage platform needs to be deployed on its own vm
- Most of the deployment is automated



# Deployment overview

- Requirements
- Step 1: VM creation on cloud provider
- Step 2: Bootstrap code download
- Step 3: Bootstrap code configuration
- Step 4: Bootstrap code execution
- Step 5: Connection with social network
- Step 6: Platform reset



# Requirements (1/2)

- 1 Virtual machine
  - Ubuntu 14.04
  - 8GB ram
  - 2vcpu
  - 20GB Hard disk
- 1 Public IPV4 address
- Destination clouds credentials



# Requirements (2/2)

- Ports accessible from the outside world
  - 22/TCP: SSH
  - 80/TCP: execution ware UI
  - 4001/TCP: colosseum etcd daemon
  - 8080/TCP: time series database
  - 9000/TCP: colosseum UI
  - 9999/TCP: REST API
  - 33034/TCP: rmi registry
- <https://cloudiator.github.io/docs/installation.html>

# STEP #1 VM CREATION

- Actual actions depend on the Cloud provider (EC2, AZURE, OPENSTACK instance)
- Please make sure the requirements are fulfilled
  - VM size
  - PUBLIC\_IP MAPPING
  - PORTS accessible
  - SSH access



# STEP #2 Bootstrap code download

- Log into the PaaSage VM
- Run the following commands

```
$ sudo apt-get update
```

```
$ sudo apt-get install git
```

```
$ git clone
```

```
https://tuleap.ow2.org/plugins/git/paasage/paasage\_one\_click\_install.git
```

- Bootstrap code is now downloaded on the to-be PaaSage VM.



# STEP #3 Bootstrap configuration

- Log into PaaSage VM
- Run the following commands

```
$ cp paasage_one_click_install/override_vars.sh_SAMPLE  
    ./override_vars.sh  
$ vi override_vars.sh
```

- Adapt the file with your values see next slide



## STEP #3 Bootstrap configuration (2)

- **NODE\_GROUP**: identify the vm's created by this PaaSage platform (use only lowercase letters)
- **ELASTIC\_IP**: public ip assigned to this PaaSage Platform (by default, detected using [checkip.amazonaws.com](http://checkip.amazonaws.com))
- **SEED**: some random string (lower case letters) used as seed for password generation
- Destination clouds credentials



# STEP #4 Bootstrap code execution

- Once the `override_vars.sh` is adapted, you can run the PaaSage platform deployment
- Log into the PaaSage platform, then execute  

```
$ paasage_one_click_install/bootstrap/bootstrap.sh
```
- Watch the deployment taking place. It can take from 10 to 20 min



# STEP #5: connect Social Network

- Connecting the PaaSage platform with the social network (SN) allows the latter to be used for CAMEL model deployment.
- Steps:
  - Connect to the SN
  - Navigate to *My Area* → *Credentials*
  - Fill in the endpoint, email, password and tenant
  - Click on the *Save changes* button



# STEP #6: Clean up

- If you want to reuse this PaaSage platform to deploy another application, you need to clean the databases up

- Log into the PaaSage Platform

- Execute the following command

```
$ /etc/paasage/clean-db.sh
```

- Reboot the platform



