Table of Contents

[Deployment procedure description 2](#__RefHeading__213_1683750605)

[Critical items 2](#__RefHeading__215_1683750605)

[First time installation 3](#__RefHeading__217_1683750605)

[Start from GUI 3](#__RefHeading__219_1683750605)

[Download installation package 3](#__RefHeading__221_1683750605)

[Install simple machine in domain 3](#__RefHeading__223_1683750605)

[Install initiator machine in domain 3](#__RefHeading__225_1683750605)

[Usage 4](#__RefHeading__227_1683750605)

[Initiator service 4](#__RefHeading__229_1683750605)

[Monitor 4](#__RefHeading__231_1683750605)

[Tests 4](#__RefHeading__233_1683750605)

[Critical items 2](#__RefHeading__213_1683750605)

[First time installation 3](#__RefHeading__213_1683750605)

[Start from GUI 3](#__RefHeading__213_1683750605)

[Download installation package 3](#__RefHeading__213_1683750605)

[Install simple machine in domain 3](#__RefHeading__213_1683750605)

[Install initiator machine in domain 3](#__RefHeading__213_1683750605)

[Usage 4](#__RefHeading__213_1683750605)

[Initiator service 4](#__RefHeading__213_1683750605)

[Monitor 4](#__RefHeading__213_1683750605)

[Tests 4](#__RefHeading__213_1683750605)

# Deployment procedure description

All files and logs could be found under following web link:

<https://github.com/dimakuzminov/incredibuild_deployment/>

## Critical items

1. **PACKAGE UPDATE**: please run following commands each time you know there are updates in deployment package
   1. “cd incredibuild\_deployment”
   2. “git pull”
      1. if new files, please run following command
         1. “./install\_incredibuild\_env.sh grid\_server\_domain.conf.generic\_ubuntu”
         2. **grid\_server\_domain.conf.generic\_ubuntu** could be replaced with any other grid\_server\_domain.conf.[profile] file

# First time installation

## Start from GUI

If we start from GUI, we need to switch to Terminal Application:

1. Ubuntu 12.04 and above
   1. Use application bar and write “Terminal”
   2. Select it

## Download installation package

We need to use Terminal application for this process;

1. Open terminal
2. write following command to download package from public git repository
   1. “sudo apt-get install git”
   2. “git clone <https://github.com/dimakuzminov/incredibuild_deployment>”
3. install generic package
   1. “cd incredibuild\_deployment”
   2. “./install\_incredibuild\_env.sh grid\_server\_domain.conf.generic\_ubuntu”
      1. **grid\_server\_domain.conf.generic\_ubuntu** could be replaced with any other grid\_server\_domain.conf.[profile] file

## Install simple machine in domain

If machine is only used as a Slot (buildmachine) it is enough to run following script:

1. ./prepare\_local\_ssh.sh
2. this script set grid domain security

## Install initiator machine in domain

If machine should be initiator machine, we need to run following script:

1. ./prepare\_domain\_grid\_ssh.sh
2. this script set domain for grid and write each computer under grid\_server\_domain.conf in security table

# Usage

## Initiator service

1. to start incredibuild service on initiator machine: “sudo service incredibuild start”
2. to stop incredibuild service on initiator machine: “sudo service incredibuild stop”
3. to restart incredibuild service on initiator machine: “sudo service incredibuild restart”
4. to analyze service log
   1. run command “sudo cat /var/log/incredibuild > results”
   2. run command “gedit results”
   3. each new instance of service starts with (each time could be only one in system)

###################################################################################

######### Started service ./cpp/GridServer/GridServer

######### Incredibuild GridServer [v1.4]

###################################################################################

## Monitor

1. need to know initiator machine ip address (dns hostname)
   1. to check DNS hostname please run on initiator machine following command “hostname -A”
2. open in browser following link <http://hostname:8080/incredibuild/monitor/default.html>

## Tests

All test are written as CSHELL scripts, all tests are under folder “incredibuild\_deployment/tests”

1. test\_errors\_handling.sh
   1. need to run as “./test\_errors\_handling.sh 25”
      1. 25 number of each test type
      2. there are 4 types, 3 of types should generate STDERR
      3. overall should be 100 tasks
2. test\_cache.sh
   1. need to run command “./test\_cache.sh 200 5”
      1. it will build 200 random files, each one 10M size
      2. it will then run 5 times test. Each test execute md5sum on each 200 files
      3. Only first time should be networking files copying. Other 4 should run from cache on machine