

“Xoreax” Incredibuild For Linux Release notes

version: v6.0.0
date: May 27th, 2013

Author:
Dmitry Kuzminov

[illegible]

Table of Contents

- Introduction.....4
 - Package information.....4
- Major changes.....5
- Scope.....6
 - The following items were planned for this release.....6
- Known issues.....7
- APPENDIX A.....8
 - PACKAGE UPDATE.....8
 - First time installation.....8
 - Install coordinator machine in domain.....8
 - Install build machine in domain.....8

Introduction

The goal of this document is to provide clear status for planned work, developed features and expose issues found during internal QA tests

Package information

- Package created by automatic “GNU Make” system and propriety build configuration
- Package as binary code is located on https://github.com/dimakuzminov/incredibuild_deployment.git
- Package structure
 - bin/ - all Incredibuild binary applications
 - web/ - Monitor scripts, sources and libraries
 - etc/ - system scripts that are used on “Helper” and “Initiator” machines
 - usr/ - system files for “Helper” and “Initiator” machines
 - Documentation/ - all relevant Documents for this project (including this document)
 - grid_server_domain.conf.[domain_group_name] this file list DNS of computers in grid domain (it is manually defined files). For more information please read “Linux_Incredibuild_deployment_Instructions_v1.0.doc”
 - linux.pem – ssh access internal key (defined by amazon site, but used in all our test systems)
 - “prepare_incredibuild_machine.sh” - script that install all relevant packages on helper/initiator machines. For more information please read “Linux_Incredibuild_deployment_Instructions_v1.1.doc”
 - “prepare_coordinator_machine.sh” - script that install all relevant packages on coordinator machine. For more information please read “Linux_Incredibuild_deployment_Instructions_v1.1.doc”
 - 3rd_side/ - all scripts to install 3rd side applications for grid computation
 - obsolete/ - all scripts that were previously supported, some need to be removed and some need to be updated
- How to Install [APPENDIX A]

Major changes

- Replace in deployment script for “initiator” and “helper” machine as “incredibuild” installation script
 - installs everything that is required to be initiator and helper machine on same machine
- Add script for “coordinator” machine
- Clean deployment folder from 3rd side party packages scripts and obsolete scripts (some of them should be fixed and returned back)
- Add script to remove incredibuild installation from current machine
- Critical:
 - each "incredibuild" machine has registration process to be a part of “grid computation” and must know about coordinator. `./prepare_incredibuild_machine.sh` requires coordinator machine DSN/IP to finish properly installation
 - System is capable to run multiple “initiators” form same or different machines
 - XgConsole need to incredibuild service to run in system
 - incredibuild service requires `incredibuild_coordinator` to run on coordinator machine

Scope

The following items were planned for this release

TAKS ID	TASK DESCRIPTION	Status
ACT00051	Coordinator: basic operations: <ul style="list-style-type: none">- Register machine to Coordinator- Coordinator check machine status- utility that request from coordinator list of machines [status working, not working]- GridServer request from coordinator Slots- Coordinator ping alive GridServer (Initiator)	DONE
ACT00052	GridServer (Initiator) temporary Slot mechanism to resolve deadlock when running AS with CC1 or CC1Plus under gcc	DONE

Known issues

- The package is not fully tested and more known issues would be added to version v6.1.0

APPENDIX A

PACKAGE UPDATE

1. please run following commands each time you know there are updates in deployment package
 - 1.1 “cd incredibuild_deployment”
 - 1.2 “git pull”
 - 1.2.1 if new files, please run following command:
 - 1.2.1.1 coordinator: ./prepare_coordinator_machine.sh
 - 1.2.1.1.1 optional can provided predefined “grid_domain_server.conf” file as argument
 - 1.2.1.2 initiator/helper machine: ./prepare_incredibuild_machine.sh coordinator_machine_name/ip_address
 - 1.2.1.2.1 must specify coordinator_machine_DNS_name to run the script
 - 1.2.2 to remove entire package from current machine:
 - 1.2.2.1 ./remove_incredibuild_package.sh

First time installation

Install coordinator machine in domain

We need to use Terminal application for this process;

- 1 Open terminal
- 2 write following command to download package from public git repository
 - 2.1 “sudo apt-get install git”
 - 2.2 “git clone https://github.com/dimakuzminov/incredibuild_deployment”
- 3 install generic package
 - 3.1 “cd incredibuild_deployment”
 - 3.2 “./prepare_coordinator_machine.sh [grid_server_domain.conf.[generic_ubuntu]]”
 - 3.2.1 grid_server_domain.conf.generic_ubuntu could be replaced with any other grid_server_domain.conf.[profile] file
 - 3.2.2 grid_server_domain.conf file argument could be ignored

Install build machine in domain

It is recommended to install machine, only after coordinator is installed in network and is accessible from current machine

We need to use Terminal application for this process;

- 4 Open terminal
- 5 write following command to download package from public git repository
 - 5.1 “sudo apt-get install git”
 - 5.2 “git clone https://github.com/dimakuzminov/incredibuild_deployment”
- 6 install generic package
 - 6.1 “cd incredibuild_deployment”
 - 6.2 “./prepare_incredibuild_machine.sh coordinator_machine_DNS_name”
 - 6.2.1 must specify coordinator_machine_DNS_name