

# IT Automation version update

**\*\*** In this document, "Exastro IT Automation" is described as "ITA".

# **Exastro**

#### Table of contents

- 1. Introduction
  - 1.1 About this guide
- 2. System configuration
  - 2.1 System requirement
- 3. ITA update procedure
  - 3.1 Preparation (1/1)
  - 3.2 ITA update work flow
  - 3.3 Update (1/5)
  - 3.4 Update (2/5)
  - 3.5 Update (3/5)
  - 3.6 Update (4/5)
  - 3.7 Update (5/5)
- 4. ITA operation check
  - 4.1 Operation check (1/1)

## 1. Introduction



#### 1.1 About this guide

#### About this guide

• This document describes the procedure to update the ITA environment constructed in all-in-one configuration.

# 2. System configuration



#### 2.1 System requirement

#### About the environment of ITA to perform update

- The procedure in this document can be performed on ITA environment constructed in all-in-one configuration.
- The version of ITA that supports version update is <u>1.4.0 or later</u>.
   The environment of ITA version 1.4.0 or later can be updated by executing the procedure in this document.

# 3. ITA construction procedure



### 3.1 Preparation (1/1)

#### List of ITA construction tool

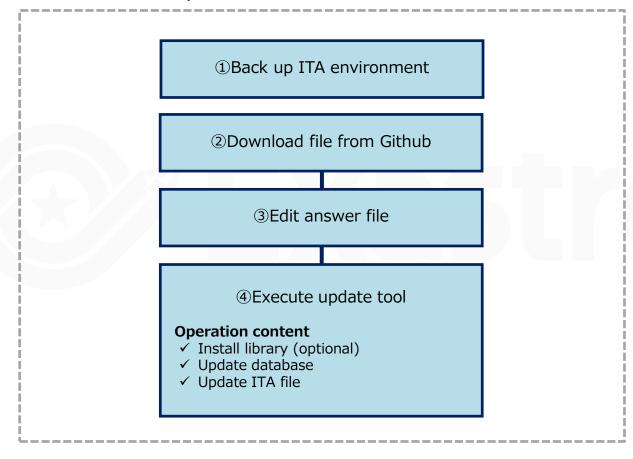
The list of ITA construction tool is as follows.

| Description  | File                    | Storage path   |
|--|-------------------------|--|
| Library collection script                                | ita_gather_library.sh   | /(Installation file extract path)/ita_install_package/install_scripts/ |
| Environment construction tool (For offline installation) | ita_builder_offline.sh  | /(Installation file extract path)/ita_install_package/install_scripts/ |
| Environment construction tool (For online installation)  | lotused for versi       | Onstupdatect path)/ita_install_package/install_scripts/                |
| Setting file   | ita_builder_setting.txt | /(Installation file extract path)/ita_install_package/install_scripts/ |
| ITA installer  | ita_installer.sh        | /(Installation file extract path)/ita_install_package/install_scripts/ |
| Answer file  | ita_answers.txt         | /(Installation file extract path)/ita_install_package/install_scripts/ |
| Update tool  | ita_version_up.sh       | /(Installation file extract path)/ita_install_package/install_scripts/ |

#### 3.2 ITA update work flow

#### Version update work flow

• The work flow of version update is as follows.



#### 3.3 Update (1/5)

- \*Execute update as root user.
- Back up ITA environment
  - Please back up ITA environment before update.
- Download file from Github
  - Download file with the following command

```
# wget https://github.com/exastro-suite/it-automation/releases/download/vx.x.x/exastro-it-automation-x.x.x.tar.gz
```

- ※Please install wget command beforehand.
- $\times$ Please change the version (x.x.x) according to the file.
- Deploying the materials.
  - Unzip the .tar.gz file.

```
# tar zxf exastro-it-automation-x.x.x.tar.gz
```

- Change directory
  - Switch current directory to the directory where the answer file and shell is located.

```
# cd it-automation-x.x.x/ita_install_package/install_scripts
```

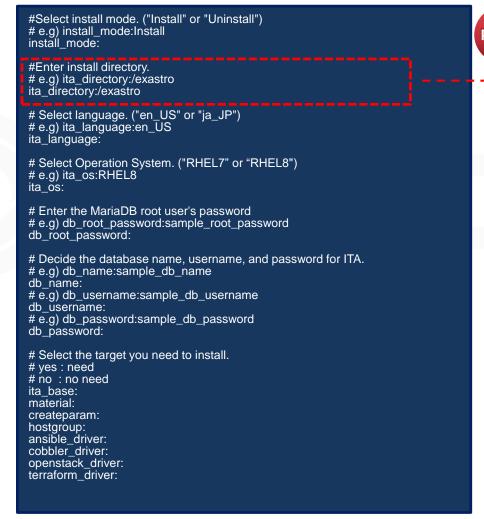
#### 3.4 Update (2/5)

- Edit answer file (ita\_answers.txt)
  - Please edit the answer file to set ITA update.
  - "ita\_directory" is the only item used for update, other items are not used.

| Item             | Required | Default<br>value | Description  |
|------------------|----------|------------------|--|
| install_mode     | Not      | used fo          | orstversion: updateall   |
| ita_directory    | 0        | -                | Specify the absolute path to the directory where IT Automation will be installed. If the directory does not exist, it will be newly created. |
| ita_language     | _        | en_US            | IT Automation display language: ja_JP (Japanese) or en_US (English)  |
| ita_os           | _        | RHEL7            | OS for IT Automation: RHEL7 or RHEL8   |
| db_root_password | _        | _                | Root password for MariaDB  |
| db_name          | _        | -                | Database name for MariaDB  |
| db_username      | _        | -                | Database username for MariaDB  |
| db_password      | _        | -                | Database password for MariaDB  |
| ita_base         | Not      | used fo          | or version edipolate Automation.   |
| Material         | _        | no               | Whether the Management of configuration materials function is to be installed  |
| create_param     | _        | yes              | Whether the <b>Creation of menus</b> function is to be installed   |
| Hostgroup        | _        | yes              | Whether the <b>Host grouping</b> function is to be installed   |
| ansible_driver   | _        | yes              | Whether the Ansible driver is to be installed  |
| cobbler_driver   | _        | no               | Whether the Cobbler driver is to be installed  |
| openstack_driver | _        | no               | Whether the OpenStack driver is to be installed  |
| terraform_driver | _        | no               | Whether the Terraform driver is to be installed  |

#### 3.5 Update (3/5)

- Sample of the answer file (ita\_answers.txt)
  - The following shows an example of the answer file (ita\_answers.txt)



POINT

"ita\_directory" is the only item used for update, other items are not used.

#### 3.6 Update (4/5)

#### Execute update tool

Execute the update tool with the following command

```
# sh ita_version_up.sh
```

• The following confirmation message will be displayed during execution, please enter yes or no to decided install libraries required for ITA or not.

QUESTION: Automatically install the libraries that are required for ITA? Enter "yes" or "no".

Enter "yes" to automatically install libraries in online environment. Enter "no" for offline environment or not install libraries automatically. For the libraries that is installed for each version, please refer to next page.

#### Check operation

- If the operation is ended normally, the version will be updated to the version of the downloaded file.
- The content of operation executed by update tool is output to ita\_version\_up.log
- Log storage path /(Installation file extract path)/ita\_install\_package/install\_scripts/log/

#### 3.7 Update (5/5)

#### List of libraries that will be installed during update

• If "yes" is entered for library installation during install, the following libraries will be automatically installed according to the installed driver.

If "no" is entered, please install the libraries manually.

| Version | Installed<br>driver | Library<br>name          | Install command  | Required | Usage   |
|---------|---------------------|--------------------------|--|----------|---|
| 1.5.0   | ita_base            | php-devel                | yum install –y php-devel                               | 0        | Used for YAML analysis library (yaml) Used for YAML analysis library (yaml)   |
|         |                     | libyaml<br>libyaml-devel | yum install –y libyaml<br>yum install –y libyaml-devel | 0        | Used for YAML analysis library (yaml)   |
|         |                     | make                     | yum install –y make                                    | 0        | Used for YAML analysis library (yaml)   |
|         |                     | yaml                     | pecl install yaml                                      | $\circ$  | Used for YAML analysis library (yaml)   |
|         | ansible-<br>driver  | nc                       | yum install –y nc                                      | -        | Used for SSH command option when executing Ansible Playbook by connecting SSH from ITA under proxy environment to external server such as AWS via proxy server. |
|         |                     | paramiko                 | pip3 install paramiko                                  | -        | Required to connect to a network device by specifying network_cli for ansible_connection.   |

# 4. ITA Operation check



#### 4.1 Operation check (1/1)

#### Check version

After logging into ITA, check if the version is updated in "Management console" "Version".

