

IT Automation Version Update

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

№ Exastro

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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.
- Version update is supported by ITA version <u>1.4.0 and later.</u>
 Environments of ITA 1.4.0 or later can be updated by following the procedure in this document.

3. ITA update procedure



3.1 Preparation (1/1)

List of ITA construction tool

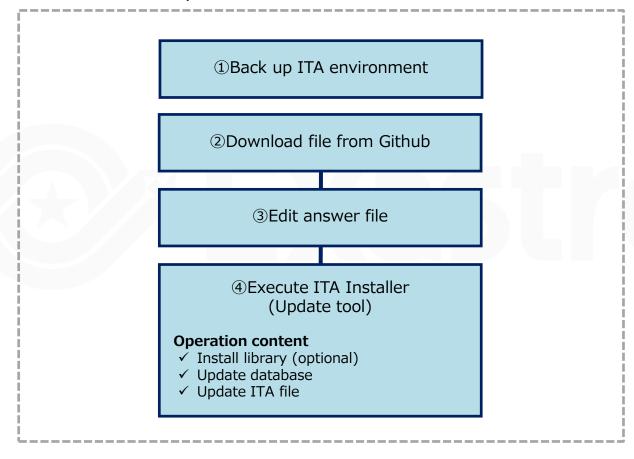
• The list of ITA construction tool is as follows.

Description	File	Storage destination	
ITA installer	ita_installer.sh	/(Installation file extraction path)/ita_install_package/install_scri pts/	
Answer file	ita_answers.txt	/(Installation file extraction 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 (1/6)

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

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

- *Please install curl 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 the 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 (2/6)

Edit answer file (ita_answers.txt)

- Please edit the answer file to set ITA update.
- If the user wishes to install any library when updating to a new version, input "Versionup_All" to the "Install_mode" value. If not, input "Versionup_ITA".
- "ita_directory" and "Install_mode" are the only items used for update, other items are not used.

Item	Necessary	Initial value	Description
install_mode	0	Install_Online	Install mode settings Install_Online: Install online Install_Offline: Install offline Gather_Library: Gather library Install_ITA: Install ITA Versionup_All: Update ITA (With library install) Versionup_ITA: Update ITA (Without library install) Uninstall: Uninstall ITA
ita_directory	0	-	Installation directory Please specify an absolute path for the ITA Installation directory. Make sure the directory can be referenced by all users. If no installation directory exists, one will be created.
ita_language	_	en_US	ITA display language (Japanese (ja_JP) /English (en_US))
ita_os	_	RHEL7	ITA OS(for RHEL7 type OS (RHEL7)/ for RHEL8 type OS (RHEL8))
ita_domain	-	exastro-it- automation.local	ITA domain name specification (used when the ITA installer creates a self-certificate.
certificate_path	-	-	Specify the path of the file used for the user specified SSL server certificate (Enter only when using a user specified SSL certificate. Specify an absolute path)
private_key_path	_	_	Specify the path of the file used for user-specified SSL private keys. (Enter only when using a user-specified SSL private key. Specify an absolute path)

3.5 Update (3/6)

Install modes

- From ITA Version 1.6.0 and onwards, the shell executed when the installer is booted is only integrated to the ita_installer. The installer behavior is branched depending on the answer file's install mode. Choose one of the following when updating.
 - Versionup_All: ITA will be updated after the necessary library is installed. Install the library online.
 - Versionup_ITA: Updates ITA without installing any libraries.
- If the user wants to automatically install the library in an online environment, input "Versionup_All" for "install_mode". For offline environments or non-automatic installations, pleaser enter "Versionup_ITA".

3.5 Update (4/6)

Sample of the answer file (ita_answers.txt)

The following shows an example of the answer file (ita_answers.txt)

```
# Select install mode.
# ("Install_Online","Install_Offline","Gather_Library","Install_ITA", # "Versionup_All","Versionup_ITA","Uninstall")
# e.g) install mode:Install Online
# *This installer operates according to the inputted values below.
# Install_Online: ITA will be installed after the necessary libraries
              has been installed via internet.
  Install Offline: ITA will start installing using the package created
               in Gather Library.
  Gather_Library: Gathers the necessary libraries via internet and creates
              the package necessary to execute Install_Offline.
              (Execute this before executing Install_Offline)
  Install_ITA: Installs ITA without installing any libraries.
  Versionup_All: Installs ITA after installing the necessary libraries for
             the desired ITA version via internet.
# Versionup_ITA: Updates ITA without installing any libraries.
# Uninstall: ITA Uninstalls ITA.(Libraries will not be uninstalled)
install_mode: Versionup_All
# e.g) ita_directory:/exastro
ita_directory:/exastro
# Select language. ("en_US" or "ja_JP")
# e.g) ita_language:en_US
ita language:en US
```

POINT

"ita_directory" and "install_mode" are the only items used for update, other items are not used.

POINT

Items in the answer file (ita_answer.txt) does not support full-width characters.

3.6 Update (5/6)

Execute ITA Installer (Update tool)

Execute the update tool with the following command

```
# sh ita_version_up.sh
```

If the "install mode" in the answer file (ita_answers.txt) is "Verisionup_all",
 The library will be automatically installed in the middle of the process.
 Please see the next page for each version's installation library

Check process

- 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/

Exit status

 The ITA installer returns one of the exit statuses listed below depending on the shell process exit status.

Normal exit: 0 Abnormal exit: 1

3.7 Update (5/5)

List of libraries that will be installed during update

If "Versionup_all" is entered for "install_mode" in the answer file,
 The following libraries will be installed according to the drivers already installed.
 If "Versionup_ITA" was input, the library needs to be isntalled manually.

Version	Installed driver	Library name	Install command	Required	Usage			
	ita_base	php-devel	yum install –y php-devel	0	Used for YAML analysis library (yaml)			
		libyaml	yum install –y libyaml	0	Used for YAML analysis library (yaml)			
		libyaml-devel	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	0	Used for YAML analysis library (yaml)			
1.5.0	ansible- 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.			
1.6.0	There are no libraries added in 1.6.0							
1.6.1	There are no libraries added in 1.6.1							
1.6.2	There are no libraries added in 1.6.2							
1.6.3	There are no libraries added in 1.6.3							
1.7.0	ansible- driver	boto	Pip3 install boto	-	Used for Ansible module's community.aws.iam			
1.7.1	There are no libraries added in 1.7.1							
1.7.2	There are no libraries added in 1.7.1							

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".

