OASE Operation Autonomy Support Engine

Version Update

※In this document, ”Exastro Operation Autonomy Support Engine” is written as “OASE”

Exastro Operation Autonomy Support Engine Version 1.3.1

Exastro developer

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1. Introduction

About this document

- This document describes the update procedure of OASE Environments constructed in all-in-one-configurations.

2. System construction

2.1 System requirements

OASE Environment.

- The procedure in this document can be done on OASE Environments constructed in all-in-one-configurations

- OASE on **ver1.1.1** and later can be updated to later versions. Follow the procedure in this document to update it.

3. OASE Update procedure

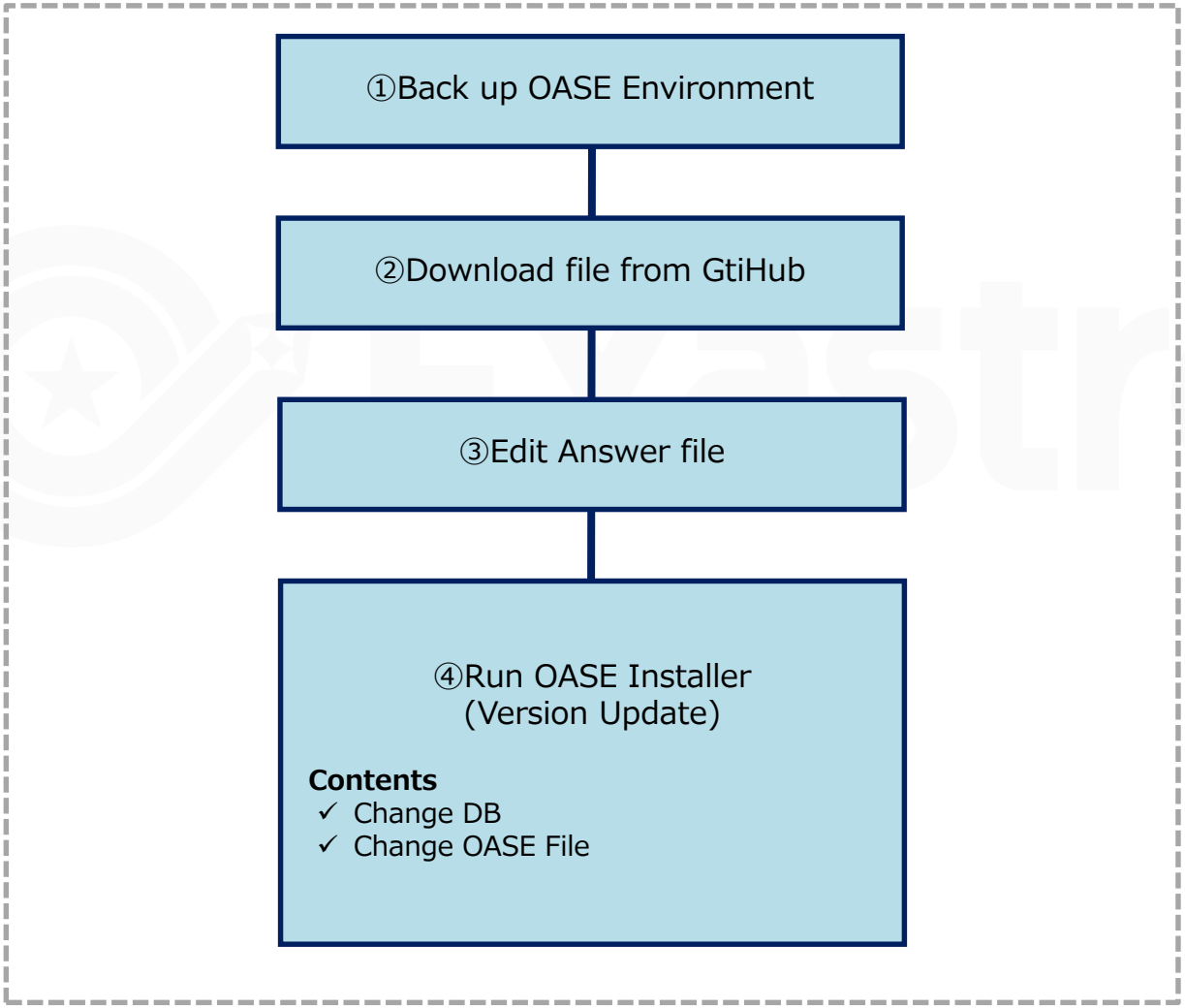
OASE Update tools

- The following table displays the tools used to update OASE.

Description	File	Storage path
OASE installer	oase_installer.sh	/(Installation file path)/oase/oase_install_package/install_scripts/
Answer file	oase_answers.txt	/(Installation file path)/oase/oase_install_package/install_scripts/

Update flow

- The update flow is as shown below.



3.3 Update（1/11）

Back up OASE Environment

- Make sure to back up the OASE Environment before updating

Download file from GitHub

- Use the following command to download the necessary file from GitHub.

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

※Please install curl command beforehand.

※Please change the version (x.x.x) accordingly.

Unpack data

- Unzip the .tar.gz file.

```
# tar zxf exastro-oase-x.x.x.tar.gz
```

Edit Answers file

- Move the file to the directory where the Answer file and the shell is located.

```
# cd oase/oase_install_package/install_scripts
```

Edit Answer file (oase_answers.txt)(1/3)

- The Answer file is what configures the OASE update settings. Please create it in advance.
- If you want to install new libraries, change the "install_mode" value to "Versionup_All".
  If you don't want to install any new libraries, change it to "Versionup_OASE".

Item	Required	Initial value	Description
install_mode	○	Install_Online	Install mode settings ・Install_Online : Online install ・Install_Offline : Offline install ・Gather_Library : Gather libraries ・Versionup_All : Update OASE to (installs libraries) ・Versionup_OASE : Update OASE (does not install libraries) ・Uninstall : Uninstall OASE
RabbitMQ_username	○	administrator	RabbitMQ User name
RabbitMQ_password	○	password	RabbitMQ Password
RabbitMQ_queuename	○	oase	RabbitMQ Queue name (generated)
RabbitMQ_ipaddr	○	-	RabbitMQ IP Address
db_root_password	○	password	Maria DB Root Password
db_name	○	OASE_DB	OASE Maria DB name
db_username	○	OASE_USER	OASE Maria DB Database Username

Edit Answer file (oase_answers.txt)(2/3)

- The Answer file is what configures the OASE update settings. Please create it in advance.
- If you want to install new libraries, change the "install_mode" value to "Versionup_All".
  If you don't want to install any new libraries, change it to "Versionup_OASE".

Item	Required	Initial value	Description
db_password	○	OASE_PASSWD	OASE Maria DB Database Password
db_erase	○	-	Decides whether to delete or leave the Database when uninstalling OASE
jboss_root_directory	○	/exastro/WildFly	Jboss Installation location
rhdm_adminname	○	admin0000	RHDM Administrator name
rhdm_password	○	password@1	RHDM Password
dm_ipaddrport	○	localhost:8080	RHDM IP Address and Port
rulefile_rootpath	○	/exastro/rule	RHDM Rule settings file path（Generated）
apply_ipaddrport	○	127.0.0.1:50001	IP and Port started by the ApplyService
mavenrep_path	○	/root/.m2/repository/com/oase/	Maven jar File storage place
oasemail_smtp	○	"{'IPADDR':'127.0.0.1','PORT':25,'AUTH':False}"	OASE Mail server settings
oase_directory	○	/exastro	OASE Installation path

3.6 Update (4/11)

Edit Answer file (oase_answers.txt)(3/3)

- The Answer file is what configures the OASE update settings. Please create it in advance.
- If you want to install new libraries, change the "install_mode" value to "Versionup_All".
  If you don't want to install any new libraries, change it to "Versionup_OASE".

Item	Required	Initial value	Description
oase_session_engine	○	-	OASE Session maintenance method
ev_location	○	-	IP Address when the clone job is executed while linked to AD.
oase_language	○	ja	System Language
oase_os	○	-	System OS
oase_domain	○	exastro-oase.local	OASE domain name
certificate_path	Optional	–	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	Optional	–	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)

Install modes

- The actions of the installer branches depending on the "install_mode" value in the Answer file (oase_answers.txt)Make sure to enter one of the following values when updating.

  - Versionup_All : Updates OASE after installing the added necessary libraries through the internet.
  - Versionup_OASE : Updates OASE without installing any libraries.

- If you want to automatically install libraries in an online environment, make sure the "install_mode" value is set to "Versionup_all".
  For offline environments, or if you don't want to install libraries automatically, please set "install_mode" to "Versionup_OASE".

Answer file(oase_answers.txt) example 1/4

- The following shows an example of the Answer file(oase_answers.txt)

```
# Select install mode.
# ("Install_Online","Install_Offline","Gather_Library","Versionup_All", "Versionup_OASE", "Uninstall")
# e.g) install_mode:Install_Online
install_mode:Versionup_OASE


##############################
# RabbitMQ
##############################
# Decide the RabbitMQ_username.
# e.g) RabbitMQ_username:sample_rabbitmq_username
RabbitMQ_username:admin

# Decide the RabbitMQ_password.
# e.g) RabbitMQ_password:sample_rabbitmq_password
RabbitMQ_password:password


# Decide the RabbitMQ_queuename.
# e.g) RabbitMQ_queuename:oase
RabbitMQ_queuename:oase

# Enter IP address for RabbitMQ.
# e.g) RabbitMQ_ipaddr:127.0.0.1
RabbitMQ_ipaddr:127.0.0.1

##############################
# MariaDB
##############################
# Enter the MariaDB root user's password
# e.g) db_root_password:sample_root_password
db_root_password:password

# Decide the database name, username, and password for OASE.
# e.g) db_name:sample_db_name
db_name:OASE_DB
# e.g) db_username:sample_db_username
db_username:OASE_USER
# e.g) db_password:sample_db_password
db_password:OASE_PASSWD

# In uninstall mode,
# Select "erase" or "leave" oase database
```

Answer file(oase_answers.txt) example 2/4

```
# In uninstall mode,
# Select "erase" or "leave" oase database
# e.g) db_erase:erase
db_erase:erase


##############################
# JBoss EAP
##############################
# Enter JBoss install directory.
# e.g) jboss_root_directory:/exastro/JBossEAP
jboss_root_directory:/exastro/JBossEAP


##############################
# RHDM
##############################
# Decide the Administrator name, password.
# e.g) rhdm_adminname:admin0000
rhdm_adminname:admin0000
# e.g) rhdm_password:password@1
rhdm_password:password@1

# Enter IP address & port for Decision Manager.
# e.g) dm_ipaddrport:localhost:8080
dm_ipaddrport:localhost:8080


##############################
# RULEFILE
##############################
# Enter root path for RULEFILE.
# e.g) rulefile_rootpath:/exastro/rule
rulefile_rootpath:/exastro/rule


##############################
# APPLY
##############################
# Enter IP address & port for APPLY SERVICE.
# e.g) apply_ipaddrport:127.0.0.1:50001
apply_ipaddrport:127.0.0.1:50001
```

3.10 Update (8/11)

Answer file(oase_answers.txt) example 3/4

```
##############################
# Maven
##############################
# Enter repository path for Maven.
# e.g) mavenrep_path:/root/.m2/repository/com/oase/
mavenrep_path:/root/.m2/repository/com/oase/


##############################
# OASEメールSMTP設定
##############################
# Enter smtp settings.
# e.g) oasemail_smtp:"{'IPADDR':'127.0.0.1','PORT':25,'AUTH':False}"
oasemail_smtp:"{'IPADDR':'127.0.0.1','PORT':25,'AUTH':False}"


##############################
# OASEインストールディレクトリ
##############################
# Enter OASE install directory.
# e.g) oase_directory:/exastro
oase_directory:/exastro


##############################
# settings.py
##############################
# Decide the EVTIMER SERVER location
# e.g) ev_location:127.0.0.1
ev_location:127.0.0.1

# Select language. ("ja")
# e.g) oase_language:ja
oase_language:ja

# Select Operation System. ("CentOS7" or "RHEL7" or "RHEL8")
# e.g) oase_os:RHEL7
oase_os:RHEL8
```

3.11 Update (9/11)

Answer file(oase_answers.txt) example 4/4

```
##############################
# SSLサーバ証明書
##############################
# Enter the oase domain name.
# e.g) oase_domain:exastro-oase.local
oase_domain:exastro-oase.local

# Enter when using user-specified certificates and private keys.
# If no file path is entered for both "certificate_path" and "private_key_path",
# the OASE installer creates and installs a self-certificate and private key
# using the values entered in "oase_domain".

# Enter the file path where the certificate to be install.
# e.g) certificate_path:/temp/etc_pki_tls_certs/exastro-oase.crt
certificate_path:

# Enter the file path where the private key to be install.
# e.g) private_key_path:/temp/etc_pki_tls_certs/exastro-oase.key
private_key_path:
```

3.12 Update (10/11)

Run OASE Installer(Version Update)

- Use the command below to run the update tool.

```
# sh oase_installer.sh
```

- If the "install_mode" value in the Answer file (oase_answers.txt) is set to " Versionup_All", the libraries will be installed in the middle of the process.
  Please see the next page for information regarding the different version's libraries.

Check Process.

- If the operation ended normally, the version will be updated to the version of the downloaded file.
- The content of the operations executed by the update tool is output to oase_version_up.log
- Log storage path
  /(Installation file extract path)/oase_install_package/install_scripts/log/

End Status

- The OASE installer returns the exit statuses listed below depending on the shell process end status.

Normal end : 0

Abnormal end : 1

3.13 Update (11/11)

List of libraries that will be installed during update

If the "install_mode" in the Answer file (oase_answers.txt) is set to "Versionup_all", the installer will install any new libraries added to the new driver/version.

If it is set to "VersionUP_OASE", please install the libraries manually.

Version	Installed driver	Library name	Install command	Required	Use
1.2.0	No libraries were added in Version 1.2.0				

4. OASE Operation check

4.1 Operation check（1/4）

Access URL

- Please access the login screen from the following URL.
- URL : **https://exastro-oase/oase_web/top/login**

※Accessing from both HTTP and HTTPS are available after installation.
Since HTTP is insecure, accessing from HTTPS is recommended.
Please check from Operation check(4/4) for the method to access from HTTP.

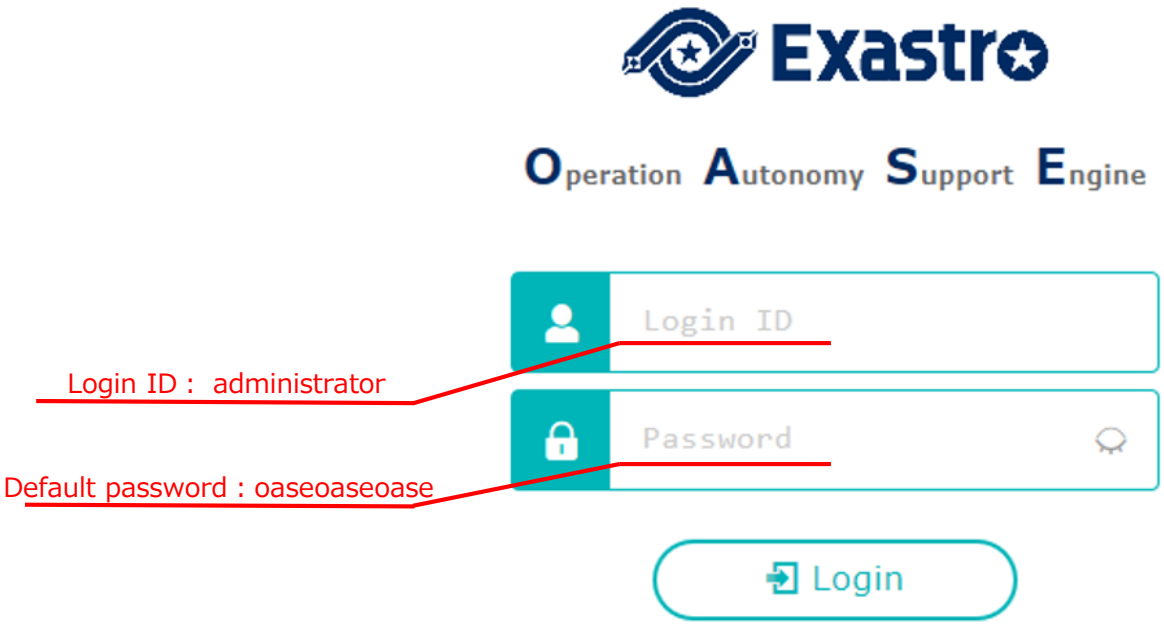
Login

- Please enter the specific Login ID and default password then click the [Login] button when the login screen of OASE is displayed.
  - Login ID : administrator
  - Default password : oaseoaseoase
- The screen will move to [Change password screen] if it is the first login after installation.
- Please change the default password from the change password screen.

4.4 Operation check（2/4）

OASE login screen

- If OASE is installed properly, the following login screen will be displayed.



4.5 Operation check (3/4)

Check contents according to the display of each menu

- Please check if the following menu are displayed after login.

Function	Menu
OASE screen	Dashboard
	Rule
	System
	Management

4.4 Operation check (4/4)

Preparation for accessing with HTTPS.

- Register the host set in the Answer file's "oase_domain" to the environment's DNS Server or the operator device's "hosts".
- Import the certificate to the Operator device (Windows)
  If you are not using user specified server certificates, the server certificate can be found in the following path in the OASE install package.

Directory	File name
/etc/pki/tls/certs	[Host name set in the Answer file's "oase_domain"].crt

If you are using user certificates, please use the certificate file set in the Answer file's "Certificate_path".

- Import the certificate to your Web browser.

Access URL via HTTP

- Please access the login screen via the following URL
- URL : http:// (IP address of server)

※ You can also access through the server's IP Address.

The steps after connection is the same as HTTPS.

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