



OASE Operation Autonomy Support Engine

Online installation

※"Operation Autonomy Support Engine" is referred to as "OASE" in this manual.

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1. Introduction



1.1 About this manual

About this manual

- This manual describes the procedure to construct OASE in all-in-one configuration(described later) with installer using external repository.



2. System configuration



2.1 Environment · Conditions

Environment necessary to use OASE.

- For details regarding the environment needed in order to use OASE, please refer to the “Exastro-OASE Environment Construction manual Basics”

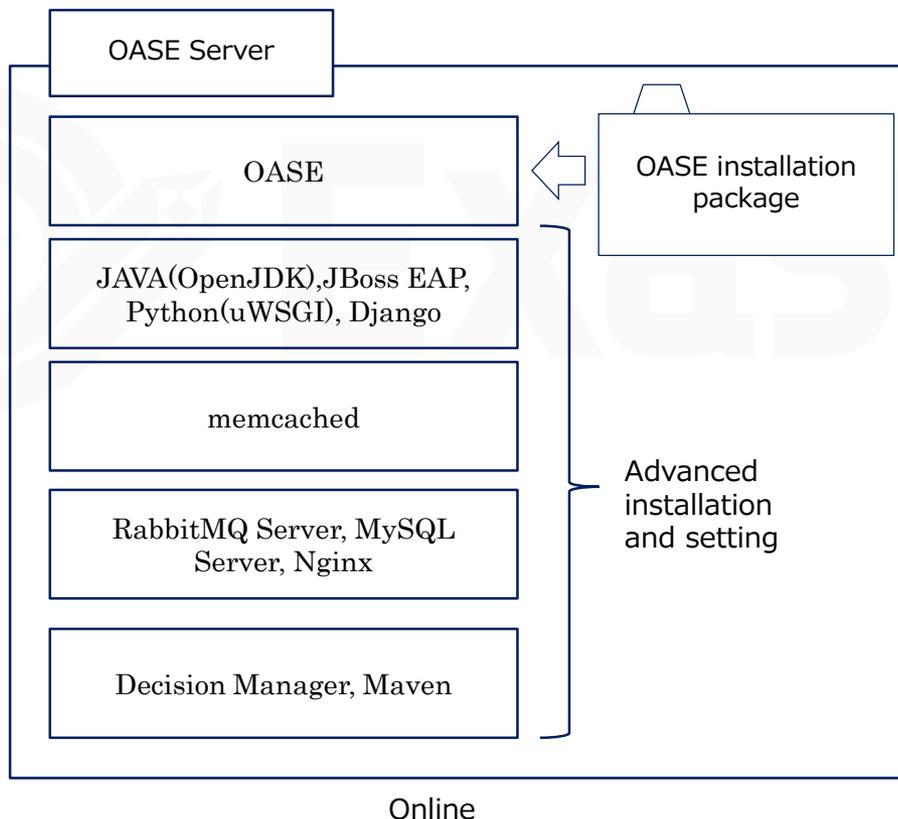


3. OASE environment construction procedure

3.1 Online installation

About the installation procedure

- If the OASE server is in online environment, the system configuration is performed by installing required library from internet and executing OASE installer.



3.2 Preparation

OASE Environment Construction tools

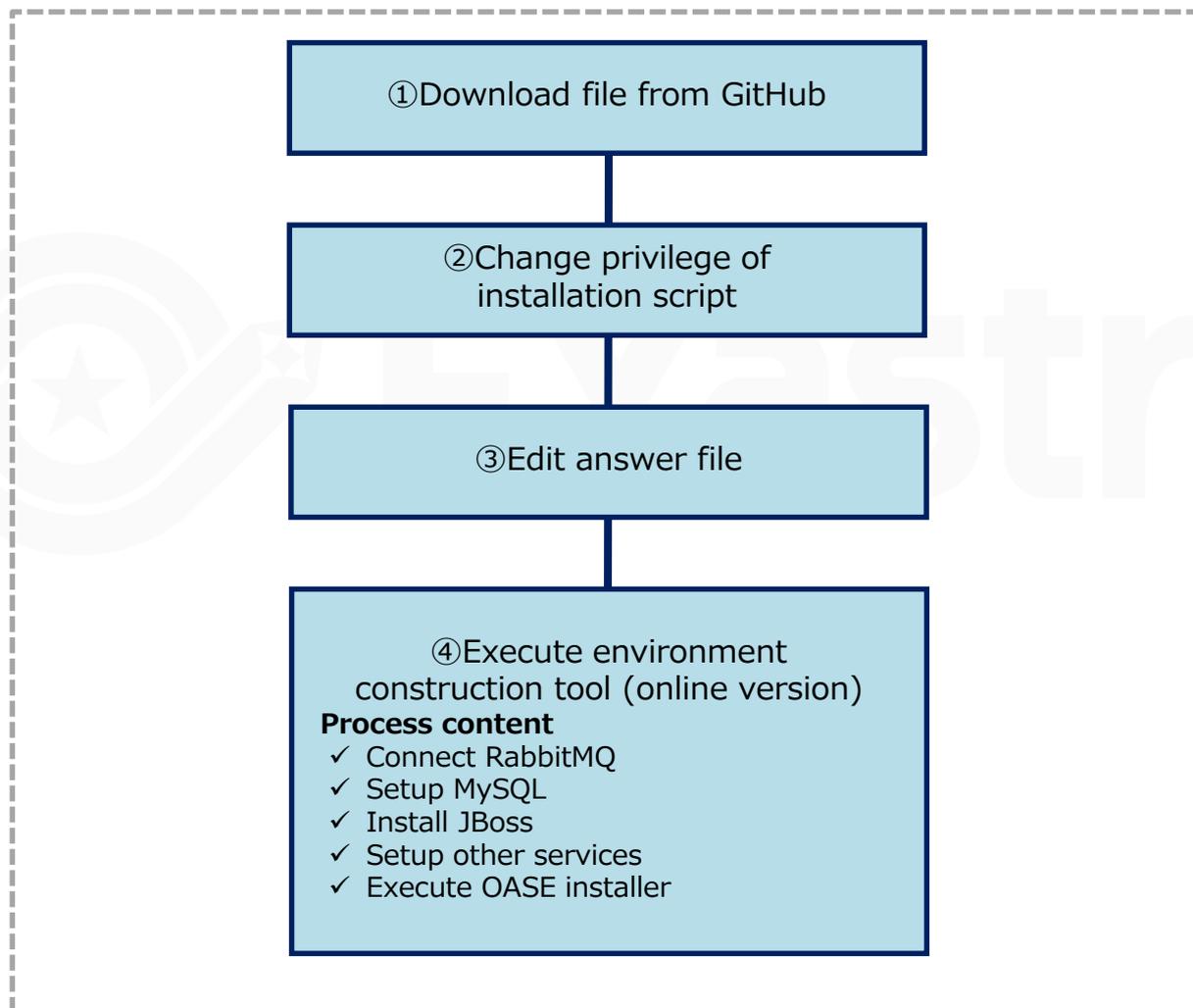
- The tools used to construct OASE Environments are listed below.

Description	File	Storage path
OASE Installer	oase_installer.sh	/(installation file storage)/oase/oase_install_package/install_scripts/
Answer File	oase_answers.txt	/(installation file storage)/oase/oase_install_package/install_scripts/

3.4 OASE environment construction flow

Environment construction flow (Online)

- The flow of environment construction is as follows.



3.5 Environment construction (1/11)

Download file from GitHub

- Download file via the following command.

```
$ wget https://github.com/exastro-suite/oase/archive/vx.x.x.tar.gz
```

※Please install wget command beforehand.

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

Change the privilege of installation script

- Extract zip file and change the privilege of installation script

```
$ tar zxf vx.x.x.tar.gz
```

```
$ find ./oase-x.x.x/oase_install_package/install_scripts/ -type f -name *.sh | xargs chmod 755
```

Edit answers file

- /oase-x.x.x/oase_install_package/install_scripts/oase_answers.txt

3.6 Environment construction (2/11)

Edit answers file(1/3)

- The following list shows how to edit the OASE Environment Setting file (oase_answers.txt).

Item	Required	Default value	Description
install_mode	<input type="radio"/>	Install_Online	Choose between one of the following modes. (Install_Online, Install_Offline, Gather_Library, Versionup_All, Versionup_OASE, Uninstall)
RabbitMQ_username	<input type="radio"/>	administrator	Username of RabbitMQ
RabbitMQ_password	<input type="radio"/>	password	Password of RabbitMQ
RabbitMQ_queueName	<input type="radio"/>	oase	Queue name of RabbitMQ (Since it will be generated, any desired name is OK)
RabbitMQ_ipaddr	<input type="radio"/>		IP address of RabbitMQ
db_root_password	<input type="radio"/>	password	Root password of MySQL
db_name	<input type="radio"/>	OASE_DB	Name of the MySQL database for OASE
db_username	<input type="radio"/>	OASE_USER	Username of the MySQL database for OASE
db_password	<input type="radio"/>	OASE_PASSWD	Password of the MySQL database for OASE
db_erase	<input type="radio"/>	-	Erase or keep the database when uninstalling OASE
jboss_root_directory	<input type="radio"/>	/Exastro/WildFly	Installation path of Jboss
rhdm_adminname	<input type="radio"/>	admin000	Administrator name of RHDM

3.7 Environment construction (3/11)

Edit answers file(2/3)

- The following list shows how to edit the OASE Environment Setting file (oase_answers.txt).

Item	Required	Default value	Description
rhdm_password	<input type="radio"/>	password@1	Password of RHDM
dm_ipaddrport	<input type="radio"/>	localhost:8080	IP address and port number of RHDM
rulefile_rootpath	<input type="radio"/>	/exastro/rule	Root path of RHDM rule setting file (Since it will be generated, any desired path is OK)
apply_ipaddrport	<input type="radio"/>	127.0.0.1:50001	IP address and port to start Apply service
mavenrep_path	<input type="radio"/>	/root/.m2/repository/com/oase/	Storage path of RHDM Maven jar file
oasemail_smtp	<input type="radio"/>	"{'IPADDR':'127.0.0.1','PORT':25,'AUTH':False}"	Setting of OASE mail server
oase_directory	<input type="radio"/>	/exastro	Installation target directory of OASE
oase_session_engine	<input type="radio"/>	-	The way to keep OASE session
ev_location	<input type="radio"/>	-	IP address to execute clone job when connected with ActiveDirectory
oase_language	<input type="radio"/>	en	Language of OASE
oase_os	<input type="radio"/>	-	Environment OS

3.7 Environment construction (4/11)

Edit answers file(3/3)

- The following list shows how to edit the OASE Environment Setting file (oase_answers.txt).

Item	Required	Default value	Description
oase_domain	<input type="radio"/>	exastro-oase.local	OASE Domain name
certificate_path	Optional	–	File path for user specified SSL server Certificate. (Enter only when using an user specified SSL certificate. Specify an absolute path)
private_key_path	Optional	–	File path for user specified SSL Private keys. (enter only when using an user specified SSL private key. Specify an absolute path)

3.8 Environment construction (5/11)

User specified server certificates and private keys.

- It is possible to use files prepared by users as server certificates and private keys. If you want to use them, please prepare both a server certificate and a private key and input their file paths to "Certificate_path" and "private_key_path" respectively in the answer file. It is not possible to use only either server certificates or private keys.

- If the server certificate includes an intermediate certificate,
Create a file that connects the two and set the path of the file to "certificate_path"

Example of Creation command

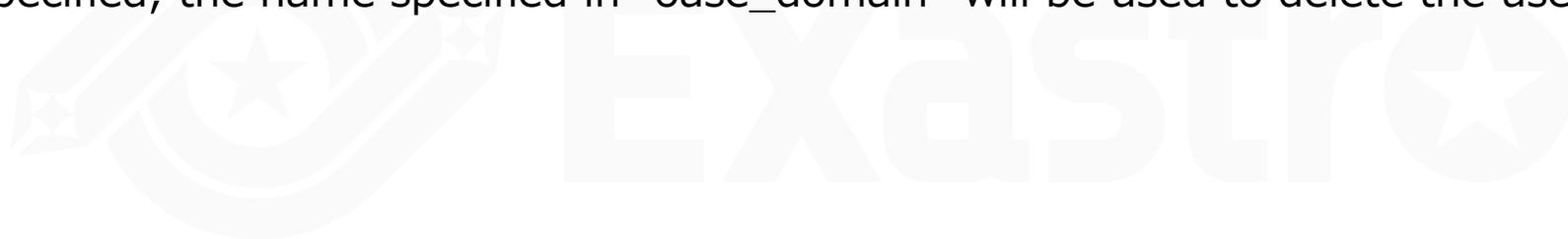
```
#cat(Server certificate file)(Intermediate certificate file)->(Linked server certificate file).
```

- If nothing is input for "certificate_path" and "private_key_path",
The OASE installer will use the value of "OASE_domain" in the answer file to create and install the self-certificate.

(※The "OASE_domain" is used as the common name when creating the self-certificate. It is also the file name for the self-certificate and the private key.

3.9 Environment construction (6/11)

- When installing, the server certificate and private key are placed in the (/etc/pki/tls/certs). However, since they will be removed from that directory when uninstalled, please manage the original server certificate and private key files with care when using user-specified server certificates and private keys.
- When uninstalling, if both "certificate_path" and "private_key_path" in the answer file (oase_answers.txt) are specified, the specified files will be deleted. If no file is specified, the name specified in "oase_domain" will be used to delete the used file.



3.10 Environment construction (7/11)

Answer file example.(oase_answers.txt) 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:Install_Online

#####
## 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:

#####
## 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
## e.g) db_erase:erase
```

3.11 Environment construction (8/11)

Answer file example.(oase_answers.txt) 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

#####
# RHD
#####
# 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
```

3.12 Environment construction (9/11)

Answer file example.(oase_answers.txt) 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
```

3.13 Environment construction (10/11)

Answer file example.(oase_answers.txt) 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:
```

3.11 Environment construction (11/11)

Change directory

- Move to the directory which contains the settings file and shell for environment construction

```
$ cd oase-x.x.x/oase_install_package/install_scripts
```

Execute environment construction tool(online version)

- Execute environment construction tool with the following command.

```
$ sh oase_online_installer.sh
```

- The installation of OASE is completed.

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.



Operation **A**utonomy **S**upport **E**ngine

A login form with two input fields and a button. The first field is labeled "Login ID" and has a person icon on the left. The second field is labeled "Password" and has a lock icon on the left and a speech bubble icon on the right. Below the fields is a rounded button with a right-pointing arrow and the text "Login".

Login ID

Password

Login

Login ID : administrator

Default password : oaseoaseoase

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.



Exastro