### Exastro-ITA\_(Reference) Configuration settings during installation

#### 1. MariaDB(server.cnf) modification list

The following setting is designed for operation on MariaDB10.4 and the minimum spec of ITA system server※1(CPU: 2 core/ Memory 4GB) **%1 ITA system server** ··· The basic ITA configuration that associated drivers such as Ansible driver are built in other servers.

No.	Required/ For reference	Default value	After ITA installation	Remarks
1	Required	OFF	explicit_defaults_for_timestamp = true	
2	Required	latin1	character-set-server = utf8	
4	Required	REPEATABLE -READ	transaction-isolation=READ-COMMITTED	Specify the transaction isolation level.  "READ-COMMITTED" is the default isolation level for many database systems(Oracle, PostgreSQL, SQL Server).  The default isolation level of MariaDB is "REPEATABLE-READ", which doesn't match the usage policy of ITA. So it is required to be changed.
3	For reference	128MB	innodb_buffer_pool_size = 512MB	Consider tuning depending on how to use ITA
5	For reference	16MB	innodb_log_buffer_size=64M	Consider tuning depending on how to use ITA
6	For reference	48MB	innodb_log_file_size=256M	Consider tuning depending on how to use ITA
7	For reference	0	min_examined_row_limit=100	Consider tuning depending on how to use ITA
8	For reference	256KB	join_buffer_size=128M	Consider tuning depending on how to use ITA
9	For reference	1M	query_cache_size=512M	Consider tuning depending on how to use ITA
10	For reference	OFF	query_cache_type=1	
11	For reference	16MB	max_heap_table_size=64M	Consider tuning depending on how to use ITA
12	For reference	16MB	tmp_table_size=64M	Consider tuning depending on how to use ITA
13	For reference	256KB	mrr_buffer_size=64M	Consider tuning depending on how to use ITA
14	For reference	151	max connections=256	Consider tuning depending on how to use ITA

### Exastro-ITA\_(Reference) Configuration settings during installation

#### 2. PHP(php.ini) modification list

The following setting is designed for operation on MariaDB10.4 and the minimum spec of ITA system server: %1(CPU: 2 core/ Memory 4GB)

**※1 ITA system server ··· The basic ITA configuration that associated drivers such as Ansible driver are built in other servers.** 

A1:	Required/	D. C. II.	AD ITAL	р .
No.	For reference	Default value	After ITA installation	Remarks
1	For reference	output_buffering = 4096	output_buffering = 8192	Consider tuning depending on how to use ITA
2	For reference	expose_php = On	expose_php = Off	Modify the setting to hide PHP version
3	For reference	max_execution_time = 30	max_execution_time = 600	Consider the tuning if timeout occurs when using ITA
4	For reference	max_input_time = 60	max_input_time = 600	Consider the tuning if timeout occurs when using ITA
5	For reference	memory_limit = 128M	memory_limit = 512M	Consider the tuning if memory allocation is not enough for PHP when using ITA
6	For reference	post_max_size = 8M	post_max_size = 4096M	Consider the tuning if large capacity registered/updated can't be performed when using ITA
7	For reference	upload_max_filesize = 2M	upload_max_filesize = 4096M	Consider the tuning according to the file size that users want to upload in ITA
8	For reference	default_socket_timeout = 60	default_socket_timeout = 600	Consider tuning depending on how to use ITA
9	Required	;date.timezone =	date.timezone = "Asia/Tokyo"	
10	For reference	pdo_mysql.cache_size = 2000	pdo_mysql.cache_size = 4000	Consider tuning depending on how to use ITA
11	Required	pdo_mysql.default_socket=	pdo_mysql.default_socket=/var/lib/mysql/mysql.sock	ITA uses PHP with PDO to connect to MySQL
12	For reference	mysql.cache_size = 2000	mysql.cache_size = 4000	Consider tuning depending on how to use ITA
13	For reference	mysql.connect_timeout = 60	mysql.connect_timeout = 600	Consider tuning depending on how to use ITA
14	Required	;session.save_path = "/tmp"	session.save_path = "/var/lib/php/session"	The directory mentioned in the modification is required to be created in advance. The default directory(/tmp) is not recommended
15	Required	session.gc_divisor = 1000	session.gc_divisor = 1	Control garbage collection of PHP session file.  According to the setting on the left with the combination of the default value session.gc_probability = 1, the session file that passed
16	Required	session.gc_maxlifetime = 1440	session.gc_maxlifetime = 43200	12 hours or more is in 100% probability to be performed garbage collection.
17	Required	;mbstring.language = Japanese	mbstring.language = Japanese	※Uncomment
18	Required	;mbstring.internal_encoding =	mbstring.internal_encoding = UTF-8	<b>※</b> Uncomment + Modify
19	Required	;mbstring.http_input =	mbstring.http_input = auto	
20	Required	;mbstring.http_output =	mbstring.http_output = UTF-8	
21	Required	;mbstring.encoding_translation = Off	mbstring.encoding_translation = Off	※Uncomment
22	Required	;mbstring.detect_order = auto	mbstring.detect_order = auto	※Uncomment
23	Required	;mbstring.substitute_character = none	mbstring.substitute_character = none	※Uncomment
24	Required	;openssl.cafile=	openssl.cafile=/etc/pki/tls/certs/exastro-it-automation-ja.crt	
25	Required	;openssl.capath=	openssl.capath=/etc/pki/tls/certs/exastro-it-automation-ja.crt	
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# Exastro-ITA\_(Reference) Configuration settings during installation 3. Ansible(ansible.ofg) modification list

No.	Required/ For reference	Default value	After ITA installation	Remarks
1	Required	#inventory = /etc/ansible/hosts	inventory = /etc/ansible/hosts	**Uncomment
2	Required	#remote_tmp = ~/.ansible/tmp	remote_tmp = ~/ansible/tmp	<b></b> ₩Uncomment
3	Required	#forks = 5	forks = 5	**Uncomment
4	Required	#poll_interval = 15	poll_interval = 15	**Uncomment
5	Required	#sudo_user = root	sudo_user = root	<b></b> ₩Uncomment
6	Required	#transport = smart	transport = smart	**Uncomment
7	Required	#module_lang = C	module_lang = C	*Uncomment
8	Required	#gathering = implicit	gathering = implicit	**Uncomment
9	Required	#host_key_checking = False	host_key_checking = False	**Uncomment
10	Required	#sudo_exe = sudo	sudo_exe = sudo	*Uncomment
11	Required	#timeout = 10	timeout = 10	*Uncomment
12	Required	#ansible_managed = Ansible managed	ansible_managed = Ansible managed	**Uncomment
13	Required	#deprecation_warnings = True	deprecation_warnings = False	**Uncomment + Modify
14	Required	#action_plugins = /usr/share/ansible/plugins/action	action_plugins = /usr/share/ansible/plugins/action	*Uncomment
15	Required	#callback_plugins = /usr/share/ansible/plugins/callback	callback_plugins = /usr/share/ansible/plugins/callback	**Uncomment
16	Required	#connection_plugins = /usr/share/ansible/plugins/connection	connection_plugins = /usr/share/ansible/plugins/connection	**Uncomment
17	Required	#lookup_plugins = /usr/share/ansible/plugins/lookup	lookup_plugins = /usr/share/ansible/plugins/lookup	<b></b> ₩Uncomment
18	Required	#vars_plugins = /usr/share/ansible/plugins/vars	vars_plugins = /usr/share/ansible/plugins/vars	**Uncomment
19	Required	#filter_plugins = /usr/share/ansible/plugins/filter	filter_plugins = /usr/share/ansible/plugins/filter	**Uncomment
20	Required	#fact_caching = memory	fact_caching = memory	**Uncomment
21	Required	#ssh_args = -C -o ControlMaster=auto -o ControlPersist=60s	ssh_args = -o ControlMaster=auto -o ControlPersist=60s -o StrictHostKeyChecking=no -o UserKnownHostsFile=/dev/null	
22	Required	#accelerate_port = 5099	accelerate_port = 5099	*Uncomment
23	Required	#accelerate_timeout = 30	accelerate_timeout = 30	**Uncomment
24	Required	#accelerate_connect_timeout = 5.0	accelerate_connect_timeout = 5.0	**Uncomment
25	Required	#accelerate_daemon_timeout = 30	accelerate_daemon_timeout = 30	**Uncomment

## Exastro-ITA\_(Reference) Configuration settings during installation 4 . ITA setting file description

ITA-BASE	Inst Ansible	Cobbler	associated dr OpenStack	DSC	AnsibleTowe	Setting file name	Description
TITL DAIGE	74131010	- COLONOI	_ ponouble	500	out Towe	(ITA installed directory)/ita-root/confs/backyardconfs/cobbler_driver/path_DATA_RELAY_STRAGE_side_Cobbler	Define the root path of data relay storage in Cobbler server
		0					
						(ITA installed directory)/ita-root/confs/backyardconfs/ita_base/data_portability_running_limit.txt	The execution time limit of data portability import process.  The process during execution will be determined as failed if the execution time passed.
0							the setting value. The unit is second.Default value is 300
						(ITA installed directory)/ita-root/confs/backyardconfs/ita_base/hide_menu_column_list.txt	Describe the column to be excluded from the item display of substitution auto-
0	0			0	0	(2.17) indication of a control of an all procedured and procedured and a control of	registration setting. The line starting with "#" is ignored.
	Ŭ			0			The line starting with # is ignored.
						(ITA installed directory)/ita-root/confs/backyardconfs/ita_env	Describe the log level of backyard function and the root directory(ita-root) of ITA
0	0	0	0	0	0		
						(ITA installed directory)/ita-root/confs/backyardconfs/path_PHP_MODULE.txt	Describe the path of PHP module. Example: /bin/php
0	0	0	0	0	0		
						(ITA installed directory)/ita-root/confs/backyardconfs/sysmail.list	Describe the setting when using system mail(ky_mail).
0							*Not required if the mail sending function(ky_mail) of ITA is not used.
_							
1						(ITA installed directory)/ita-root/confs/commonconfs/ansible_vault_accesskey.txt	The password of ansible-vault command.  The behavior of password changing is guaranteed only right after ITA is installed.
							Behavior is not guaranteed when changing password while system is operating or
	0				0		exporting/importing menus to environments whose password are the same.
							Example: The string encrypted from "ANSIBLE-VAULT-PASSWORD" Refer to %1 for the encryption specification
-						(ITA installed directory)/ita-root/confs/commonconfs/app_mail_from.txt	When using system mail (ky mail) from WebDBCore, the file content becomes the
0							sender's address.  XIn the case of sending mail to 00 loadtable.php when action occurs.
							**Not required if the mail sending function(ky_mail) of ITA is not used.
						(ITA installed directory)/ita-root/confs/commonconfs/app_msg_language.txt	Define the language of ITA.
0	0			0	0		
)						(ITA installed directory)/ita-root/confs/commonconfs/db_connection_string.txt	The string to connect to MySQL.  Example: The string encrypted from "mysqldbname=ITA_DB;host=localhost"
0	0	0	0	0	0		Refer to %1 for the encryption specification
						(ITA installed directory)/ita-root/confs/commonconfs/db_model_string.txt	Define the type of RDB
0	0	0	0	0	0	(1) A libraried directory jista-1 dody consylvanimoriconsylva_model_su mg.txt	0: OracleDB 1: MySQL/MariaDB
			0	0			1: MySQL/ ManaDB
2						(ITA installed directory)/ita-root/confs/commonconfs/db_password.txt	The password to connect to MySQL. Example: The string encrypted from "ITA_PASSWD"
0	0	0	0	0	0		
							Refer to %1 for the encryption specification
3						(ITA installed directory)/ita-root/confs/commonconfs/db_username.bxt	The user to connect to MySQL Example: The string encrypted from "ITA_USER"
0	0	0	0	0	0		Refer to ※1 for the encryption specification
1						(ITA installed directory)/ita-root/confs/commonconfs/path_ANSIBLE_MODULE.txt	Describe the path where ansible commands are installed(ansible-playbook/ansible-vault
0	0				0	(11A ilistalied directory)/isa-10d/collis/colliniorcollis/padi_Avisticle_Podotectxt	This sample describes "/usr/local/bin"
0	U				0		
5						(ITA installed directory)/ita-root/confs/commonconfs/path_PHPSpyc_Classes.txt	Describe the path of Spyc.
0	0				0		This sample describes "/usr/share/php/spyc-master"
	<u> </u>				<u> </u>		
5	_					(ITA installed directory)/ita-root/confs/restapiconfs/ansible_driver/accesskey.txt	The access key used in the RestAPI of Ansible server.  Example: The string encrypted from "AccessKeyId"
	0						Refer to %1 for the encryption specification
7	<u> </u>					(ITA installed directory)/ita-root/confs/restapiconfs/ansible_driver/secret_accesskey.txt	The secret key used in the RestAPI of Ansible server.
	0						Example: The string encrypted from "SecretAccessKey"
							Refer to ※1 for the encryption specification
3	0					(ITA installed directory)/ita-root/confs/restapiconfs/ansible_driver/ansible_playbook_watch_time.txt	Describe the period for the RestAPI of Ansible server to check if ansible-playbook command is operating. (Unit: Millisecond)
							In this period, maximum operation check performed is 3 times.  Example: "10"
_						(ITA installed directory)/ita-root/confs/commonconfs/admin_mail_addr.txt	Describe the contact information (e-mail address) of the system administrator.
0							If the file doesn'exist ⇒The link of "Contact administrator" will disappear
0						(ITA installed directory)/ita-root/confs/webconfs/ExternalAuthSettings.ini	Describe the information of the association target of ActiveDirectory.
						(ITA installed directory)/ita-root/confs/webconfs/L7Protocol.txt	Used when the protocol of client →server is unknown, such as using HTTPS terminat before ITA, etc.
0							
_							In the case that the file exists and the protoco(HTTP/HTTPS) is described  ⇒ The protocol (HTTP/HTTPS) described in the file is adopted.  In the case that the file doesn't exist or the file size is zero byte
,						(ITA installed directory)/ita-root/confs/webconfs/path_HTML_AJAX.txt	an the case that the nie doesn't exist of the nie size is zero byte  ⇒ Determine HTTP/HTTPS from the environment variable(\$_SERVER)  Describe the path of HTML AJAX.
0							Example: /usr/share/near/
3 0	0	0	0	0	0	(ITA installed directory)/ita-root/confs/webconfs/path_PhpSpreadsheet.txt	Describe the path of Phpspreadsheet. This sample: "/usr/share/ohp"
U	L						%1 The value encoded by base64 then converted by rot13