Procedure name	Required packages are as below
HA configuration (DBMS)	MariaDB、MariaDB-server、expect

※ For the version(x.x.x) in Setting, Notes column, please replace with the ITA version to be installed.
　 For strings such as "ITA installation target directory name", "Host name of backyard server", "IP address of Ansible server", please replace them according to the installation environment.

No.	Target	Common	File manage	Create menu	Host group	Ansible	Cobbler	OpenStack	DSC	Setting	Notes
						Target					
	Deploy ITA installation file										
1	Deploy ITA installation file	●								Please place the ITA file vx.x.x.tar.gz in the installation file deployment directory cd /(installation file deployment directory) ls -l vx.x.x.tar.gz	The deployment directory of the installation file can be any directory. Please acquire the file via the following command when performing online installation wget https://github.com/exastro-suite/it-automation/archive/vx.x.x.tar.gz
2										Please extract ITA installation file tar -zxf vx.x.x.tar.gz	
3										Set installation directory of ITA find it-automation-x.x.x -type f	xargs -I{} sed -i -e "s:%%%%%ITA_DIRECTORY%%%%%:/(ITA installation target directory):g" {}	
	Install yum-utils										
4	【For CentOS7、RHEL7】 Install yum-utils	●								Please install the following package. yum-utils	Please install via the following command when performing online installation.
	Set shared directory (DB file storage)										
5	Create the storage directory for the DB file of MariaDB ※Please execute when moving DB file to external storage.	●								mkdir -p /(DB file storage directory)	Example： mkdir -p /data/mysql
6	Set the shared directory ※Please execute when moving DB file to external storage.	●								Please set the shared directory of the external storage as the follows. | DBMS server shared directory	External storage shared directory
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/(DB file storage directory)	/(DB file storage directory)		
	Install MariaDB										
7	Install MariaDB	●								Please install the following package 【For CentOS7、RHEL7】 MariaDB MariaDB-server expect 【For CentOS8、RHEL8】 mariadb mariadb-server expect	Please enable repository via following command when performing online installation. 【For CentOS7、RHEL7】 curl -sS https://downloads.mariadb.com/MariaDB/mariadb_repo_setup	bash 【For CentOS8、RHEL8】 No need to add repository Please install via the following command when performing online installation 【For CentOS7、RHEL7】 yum install -y MariaDB MariaDB-server expect
8	Move the DB file of MariaDB to external storage. ※Please execute when storing DB file in external storage.	●								cp -pr /var/lib/mysql/* /(DB file storage directory)	Example： cp -pr /var/lib/mysql/* /data/mysql
9		●								rm -rf /var/lib/mysql	
10		●								ln -s /(DB file storage directory) /var/lib/mysql	Example： ln -s /data/mysql /var/lib/mysql
11	Set autostart of MariaDB and start MariaDB	●								systemctl enable mariadb systemctl start mariadb	
12	Set the root password of MariaDB	●								mysql_secure_installation Then set the password in interactive mode.	
13	Deploy the config file of MariaDB	●								【For CentOS7、RHEL7】 cp -p /(Installation file directory)/it-automation-x.x.x/ita_install_package/ext_files_for_CentOS7.x/etc_my.cnf.d/server.cnf /etc/my.cnf.d/server.cnf 【For CentOS8、RHEL8】 cp -p /(Installation file directory)/it-automation-x.x.x/ita_install_package/ext_files_for_CentOS8.x/etc_my.cnf.d/server.cnf /etc/my.cnf.d/server.cnf	
14	Restart MariaDB	●								systemctl restart mariadb	

Create DB for ITA

No.	Target	Common	File manage	Create menu	Host group	Ansible	Cobbler	OpenStack	DSC	Setting	Notes
15	Connect to MariaDB	●								mysql −uroot −p(root password of MariaDB)	
16	Create MariaDB user	●								CREATE USER '(User name)' IDENTIFIED BY '(password)'; CREATE USER '(User name)'@'localhost' IDENTIFIED BY '(password)';	
17	Create DB for ITA	●								CREATE DATABASE (name of ITA DB) CHARACTER SET utf8;	
18	Set user privilege	●								GRANT ALL ON (name of ITA DB).* TO '(User name)'@'%' WITH GRANT OPTION; GRANT ALL ON (name of ITA DB).* TO '(User name)'@'localhost' WITH GRANT OPTION;	
19	Exit MariaDB	●								exit	
20	Create ita_base table	●								mysql −u (User name) −p(password) (name of ITA DB) < /tmp/it-automation-x.x.x/ita_install_package/ITA/ita-sqlscripts/ja_JP_mysql_ita_model-a.sql	
21	Create material table		●							mysql −u (User name) −p(password) (name of ITA DB) < /tmp/it-automation-x.x.x/ita_install_package/ITA/ita-sqlscripts/ja_JP_mysql_ita_model-l.sql	
22	Create material（File link list(Ansible)）table ※Please exeucte when installing material and ansible_driver.		●			●				mysql −u (User name) −p(password) (name of ITA DB) < /tmp/it-automation-x.x.x/ita_install_package/ITA/ita-sqlscripts/ja_JP_mysql_ita_model-l2.sql	
23	Create material（File link list(Openstack)）table ※Please execute when installing material and openstack_driver.		●					●		mysql −u(User name) −p(password) (name of ITA DB) < /tmp/it-automation-x.x.x/ita_install_package/ITA/ita-sqlscripts/ja_JP_mysql_ita_model-l3.sql	
24	Create material（File link list(DSC)）table ※Please execute when installing material and dsc_driver.		●						●	mysql −u (User name) −p(password) (name of ITA DB) < /tmp/it-automation-x.x.x/ita_install_package/ITA/ita-sqlscripts/ja_JP_mysql_ita_model-l5.sql	
25	Create createparam table			●						mysql −u (User name) −p(password) (name of ITA DB) < /tmp/it-automation-x.x.x/ita_install_package/ITA/ita-sqlscripts/ja_JP_mysql_ita_model-m.sql	
26	Create hostgroup table				●					mysql −u (User name) −p(password) (name of ITA DB) < /tmp/it-automation-x.x.x/ita_install_package/ITA/ita-sqlscripts/ja_JP_mysql_ita_model-n.sql	
27	Creater hostgroup（host group variablization）table ※Please execute when installing hostgroup and Ansible_driver.				●	●				mysql −u (User name) −p(password) (name of ITA DB) < /tmp/it-automation-x.x.x/ita_install_package/ITA/ita-sqlscripts/ja_JP_mysql_ita_model-n2.sql mysql −u (User name) −p(password) (name of ITA DB) < /tmp/it-automation-x.x.x/ita_install_package/ITA/ita-sqlscripts/ja_JP_mysql_ita_model-n3.sql	
28	Create ansible_driver table					●				mysql −u (User name) −p(password) (name of ITA DB) < /tmp/it-automation-x.x.x/ita_install_package/ITA/ita-sqlscripts/ja_JP_mysql_ita_model-c.sql	
29	Create cobbler_driver table						●			mysql −u (User name) −p(password) (name of ITA DB) < /tmp/it-automation-x.x.x/ita_install_package/ITA/ita-sqlscripts/ja_JP_mysql_ita_model-d.sql	
30	Create openstack_driver table							●		mysql −u (User name) −p(password) (name of ITA DB) < /tmp/it-automation-x.x.x/ita_install_package/ITA/ita-sqlscripts/ja_JP_mysql_ita_model-h.sql	
31	Create dsc_driver table								●	mysql −u (User name) −p(password) (name of ITA DB) < /tmp/it-automation-x.x.x/ita_install_package/ITA/ita-sqlscripts/ja_JP_mysql_ita_model-g.sql	