

Procedure	The necessary packages are as listed below
HA Construction (DBMS)	MariaDB、MariaDB-server、expect

※ Please change the the version number (x.x.x) written under “Settings” or “Remarks” to match the version of ITA being installed.  
Please also change text such as “ITA Installation directory name” , Backyard Server host name” to fit your environment.

No.	Goal	Goal							Settings	Remarks			
		Common	Menu create	Host group	Ansible	Cobbler	Terraform	Terraform-CLI			CI/CD for IaC		
Unpack ITA Installation files													
1	Unpack ITA Installation files	●							Deploy the ITA file exastro-it-automation-x.x.x.tar.gz to the installation file directory. cd / (Install file unpack directory) ls -l exastro-it-automation-x.x.x.tar.gz	“The install files can be unpacked in any directory. For online, uesr the following command to gather them. wget https://github.com/exastro-suite/it-automation/releases/download/vx.x.x/exastro-it-automation-x.x.x.tar.gz  ※Use the following command for v1.10.1 and later versions. curl -OL https://github.com/exastro-suite/it-automation/releases/download/vx.x.x_tag/exastro-it-automation-			
2									Unpack the ITA Installation files tar zxf exastro-it-automation-x.x.x.tar.gz				
3									Configure ITA Installation directory find it-automation-x.x.x -type f   xargs -I{} sed -i -e “s:%%ITA_DIRECTORY%%:/ (ITA Install directory):g” {}				
Install yum-utils													
4	【For CentOS7 and RHEL7】 Install yum-utils	●							Install the following package(s) yum-utils	For online environments, please install using the following command. yum install -y yum-utils			
Configure common directory (DB file storage location)													
5	Create a directory where the Maria DB Database files will be saved. Only if you are going to move DB Files to an external storage.	●							mkdir -p / (DB File storage directory)	Example: mkdir -p /data/mysql			
6	Configure Common directory. ※Only if you are going to move DB Files to an external storage.	●							Configure the external storage common directory settings to be as bellow.				
									DBMS server common directory			External storage common directory	
									/ (DB file storage directory)			/ (DB File storage directory)	
Install MariaDB													
7	Install MariaDB	●							Install the following packages 【For CentOS7, RHEL7】 MariaDB MariaDB-server expect  【For CentOS8, RHEL8】 mariadb mariadb-server expect	For online environments, use the following command to activate repositories 【For CentOS7, RHEL7】 curl -sS https://downloads.mariadb.com/MariaDB/mariadb_repo_setup   bash 【For CentOS8, RHEL8】 No repository will be added  For online, use the following commands to install. 【For CentOS7, RHEL7】 yum install -y MariaDB MariaDB-server expect 【For CentOS8, RHEL8】			
8	Move MariaDB database files to external storage ※Only if you are going to move DB files to an 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	Configure Maria DB automatic startup settings and run Maria DB	●							systemctl enable mariadb systemctl start mariadb				

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12	Configure Maria DB root password	●								mysql_secure_installation The rest is set up interactively.	※The password can only contain half-width characters and symbols
13	Deploy MariaDB Settings files.	●								【For CentOS7, RHEL7】 cp -p / (Install file unzip location) /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 / (Install file unzip location) /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										
15	Connect to MariaDB	●								mysql -uroot -p(MariaDB root password)	
16	Create MariaDB User	●								CREATE USER '(user name)' IDENTIFIED BY '(password)'; CREATE USER '(user name)'@'localhost' IDENTIFIED BY '(password)';	※The password can only contain half-width characters and symbols
17	Create Database for ITA	●								CREATE DATABASE (TA Database name) CHARACTER SET utf8;	
18	Configure User permission	●								GRANT ALL ON (ITA Database name).* TO '(User name)'@ '%' WITH GRANT OPTION; GRANT ALL ON (ITA Database name).* TO '(User name)'@'localhost' WITH GRANT OPTION;	
19	Exit MariaDB	●								exit	
20	Create ita_base table	●								mysql -u (User name) -p(Password) (ITA Database name) < /tmp/it-automation-x.x.x/ita_install_package/ITA/ita-sqlscripts/en_US_mysql_ita_model-a.sql	
21	Create createparam table		●							mysql -u (User name) -p(Password) (ITA Database name) < /tmp/it-automation-x.x.x/ita_install_package/ITA/ita-sqlscripts/en_US_mysql_ita_model-m.sql	
22	Create hostgroup table			●						mysql -u (User name) -p(Password) (ITA Database name) < /tmp/it-automation-x.x.x/ita_install_package/ITA/ita-sqlscripts/en_US_mysql_ita_model-n.sql	
23	Create ansible_driver table				●					mysql -u (User name) -p(Password) (ITA Database name) < /tmp/it-automation-x.x.x/ita_install_package/ITA/ita-sqlscripts/en_US_mysql_ita_model-c.sql	
24	Create ansible_driver table (collect function) ※Only if you are installing createparam and Ansible_driver.		●		●					mysql -u (User name) -p(Password) (ITA Database name) < /tmp/it-automation-x.x.x/ita_install_package/ITA/ita-sqlscripts/en_US_mysql_ita_model-m2.sql	
25	Create cobbler_driver table					●				mysql -u (User name) -p(Password) (ITA Database name) < /tmp/it-automation-x.x.x/ita_install_package/ITA/ita-sqlscripts/en_US_mysql_ita_model-d.sql	
26	Create terraform_driver table						●			mysql -u (User name) -p(Password) (ITA Database name) < /tmp/it-automation-x.x.x/ita_install_package/ITA/ita-sqlscripts/en_US_mysql_ita_model-o.sql	
27	Create terraform_cli_driver table							●		mysql -u (User name) -p(Password) (ITA Database name) < /tmp/it-automation-x.x.x/ita_install_package/ITA/ita-sqlscripts/en_US_mysql_ita_model-q.sql	
28	Create cicd_for_iac table								●	mysql -u (User name) -p(Password) (ITA Database name) < /tmp/it-automation-x.x.x/ita_install_package/ITA/ita-sqlscripts/en_US_mysql_ita_model-p.sql	