

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	Construction file	Menu creation	Host group	Ansible	Cobbler			Terraform								
Unpack ITA Installation files																		
1	Unpack ITA Installation files	●							deploy the ITA file vx.x.x.tar.gz to the installation file directory. cd / (Install file unpack directory) ls -l vx.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/archive/vx.x.x.tar.gz								
2									Unpack the ITA Installation files tar -zxf vx.x.x.tar.gz									
3									Configure ITA Installation directory find it-automation-x.x.x -type f   xargs -l 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)				
Configure 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 respositories 【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】 yum install -y mariadb mariadb-server expect								
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									
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		●							【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	Deploy MariaDB Settings files.	●							systemctl restart mariadb									

No.	Goal	Goal							Settings	Remarks	
		Common	Construction file	Menu creation	Host_group	Ansible	Cobbler	Terraform			
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 Material 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-l.sql		
22	Create Material table (File link list(Ansible)). ※Only if you are installing material 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-l2.sql		
23	Create material table (file link list(terraform)) ※Only if you are installing material and terraform.		●					●	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-l4.sql		
24	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		
25	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		
26	Create hostgroup table (Hostgroup variablization) ※Only if you are installing hostgroup 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-n2.sql 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-n3.sql		
27	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		
28	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		
29	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		
30	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		