

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						
CI/CD for IaC													
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 -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. <table><tr><th>DBMS server common directory</th><th>External storage common directory</th></tr><tr><td>/(DB file storage directory)</td><td>/(DB File storage directory)</td></tr></table>	DBMS server common directory	External storage common directory	/(DB file storage directory)	/(DB File storage directory)	
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】				
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	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					

No.	Goal	Goal							Settings	Remarks	
		Common	Menu create	Host group	Ansible	Cobbler	Terraform	CI/CD for IaC			
	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		