

Procedure name							Please refer to the following file for required package.						
HA configuration(Cobbler)							https://exastro-suite.github.io/it-automation-docs/asset/Learn/ITA-online-install_en.pdf All packages other than <Mariadb, Ansible> in 3.11 Configuration(7/7) Cobbler						
※ 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”, “IP address of external storage server”, “Host name of Cobbler server”, please replace them according to the installation environment.													
No.	Target	Target							Setting	Notes			
		Common	File manage	Create menu	Host group	Ansible	Cobbler	Terraform					
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-			
2									Please extract ITA installation file tar -zxf vx.x.x.tar.gz				
3									Set the ITA installation directory find it-automation-x.x.x -type f xargs -l 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			
Install PHP													
5	Install PHP							●	Please install the following package php php-bcmath php-cli php-ldap php-mbstring php-mysqldb php-pear php-pecl-zip php-process php-snmp php-xml zip telnet mailx unzip php-json php-gd python3 php-devel libyaml libyaml-devel make sudo crontabs	Please enable the repository via the following command when performing online installation 【For CentOS7、RHEL7】 yum install -y http://rpms.remirepo.net/enterprise/remi-release-7.rpm yum-config-manager --enable remi-php72 【For CentOS8、RHEL8】 No need to add repository. Please install via the following command when performing online installation yum install -y php php-bcmath php-cli php-ldap php-mbstring php-mysqldb php-pear php-pecl-zip php-process php-snmp php-xml zip telnet mailx unzip php-json php-gd python3 php-devel libyaml libyaml-			
6	Install PEAR library							●	Please install the following PEAR package HTML_AJAX-beta	Please install via the following command when performing online installation pear install HTML_AJAX-beta			
7	Set HTML_AJAX-beta							●	ln -s /usr/share/pear-data/HTML_AJAX/js /usr/share/pear/HTML/js				
8	Install php-yaml							●	Please install the following package php-yaml	Please install via the following command when performing online installation pecl channel-update pecl.php.net echo "" pecl install YAML			
9	Install PhpSpreadsheet							●	Please create the following directory mkdir -p /usr/share/php/vendor				
10									Please install PhpSpreadsheet package in /usr/share/php/vendor directory	Please install via the following command when performing online installation curl -sS https://getcomposer.org/installer php -- --install-dir=/usr/bin /usr/bin/composer.phar require “phpoffice/phpspreadsheet”:* mv vendor /usr/share/php/			
Set PHP													
11	【For CentOS7、RHEL7】 Set php.ini							●	cp -p / (installation file deployment directory) /it-automation-x.x.x/ita_install_package/ext_files_for_CentOS7.x/etc/php.ini /etc/				
12	【For CentOS8、RHEL8】 Set php.ini							●	cp -p / (installation file deployment directory) /it-automation-x.x.x/ita_install_package/ext_files_for_CentOS8.x/etc/php.ini /etc/				
13	【For CentOS8、RHEL8】 Set www.conf							●	cp -p / (installation file deployment directory) /it-automation-x.x.x/ita_install_package/ext_files_for_CentOS8.x/etc_php-fpm.d/www.conf /etc/php-fpm.d/				
Install ITA													
14	Create installation target directory							●	mkdir -p / (ITA installation target directory)	※Please give all parent directories of the ITA installation directory permission to execute “Other Users”.			
15	Create data_relay_storage directory							●	mkdir / (ITA installation target directory) /data_relay_storage				

No.	Target	Target							Setting	Notes									
		Common	File manage	Create menu	Host_group	Ansible	Cobbler	Terraform											
16	Set shared directory						●		Please set the shared directory for external storage as follows.										
									Shared directory for Cobbler server					Shared directory for external storage					
									/(ITA installation target directory)/data_relay_storage					/(any desired shared directory)/data_relay_storage					
17	Deploy ITA file						●		cp -rp /(installation file deployment directory)/it-automation-x.x.x/ita_install_package/ITA/ita-contents/ita-root /(ITA installation target directory)/.										
18	Deploy ITA setting file						●		cp -rp /(installation file deployment directory)/it-automation-x.x.x/ita_install_package/ITA/ita-confs /(ITA installation target directory)/ita-root/confs										
19	Create directory used by ITA						●		Please create one directories for each line of the paths written in /(installation file deployment directory)/it-automation-x.x.x/ita_install_package/install_scripts/list/create_dir_list.txt by adding /(ITA installation target directory) in the front of the paths mkdir -p /(ITA installation target directory)(path written in the file)										
20	Change privilege(755)						●		Please change privilege for every line of paths written in /(installation file deployment directory)/it-automation-x.x.x/ita_install_package/install_scripts/list/755_list.txt by adding /(ITA installation target directory) in front of the paths chmod 755 /(ITA installation target directory)(path written in the file)										
21	Change privilege(777)						●		Please change privilege for every line of paths written in /(installation file deployment directory)/it-automation-x.x.x/ita_install_package/install_scripts/list/777_list.txt by /(ITA installation target directory) in front of the paths chmod 777 /(ITA installation target directory)(path written in the file)										
22	Create link to backyard setting file						●		ln -s /(ITA installation target directory)/ita-root/confs/backyardconfs/ita_env /etc/sysconfig/ita_env										
23	Copy the service file of backyard operation for cobbler_driver(Cobbler server side)						●		cp -p /(ITA installation target directory)/ita-root/backyards/cobbler_driver/*.service /usr/lib/systemd/system/.										
24	Set autostart and start the service of cobbler_driver(Cobbler server side)						●		systemctl enable ky_cobbler_profileSync_side_Cobbler systemctl enable ky_cobbler_systemSync_side_Cobbler systemctl start ky_cobbler_profileSync_side_Cobbler systemctl start ky_cobbler_systemSync_side_Cobbler										
Set hosts																			
25	Set /etc/hosts						●		vi /etc/hosts										
									Please add the following content. 127.0.0.1 (Host name of Cobbler server)										
Install Cobbler																			
26	Install Cobbler						●		Please refer to the Cobbler developer's document for installation										