

Procedure			The necessary packages are as listed below							
HA Construction (Cobbler)			https://github.com/exastro-suite/it-automation-docs/blob/master/asset/Documents/ITA-online-install_en.pdf 3.11 Construction(7/7)Library overview (Other than what is included in <Mariadb, Ansible>) Cobbler							
※ 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 -I{} sed -i -e “s:%%%%ITA_DIRECTORY%%%%:/ (ITA Install directory):g” {}		
Install yum-utils										
4	【For CentOS7, RHEL7】 Install yum-utils						●	Install the following Package yum-utils	For online, use the following command to install. yum install -y yum-utils	
Install PHP										
5	Install PHP						●	Install the following Packages 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	For Online, use the following command to activate Repositories 【For CentOS7, RHEL7】 yum install -y http://rpms.remirepo.net/enterprise/remi-release-7.rpm yum-config-manager --enable remi-php72 【For CentOS8, RHEL8】 Repositories will not be added For Online, use the following command to install. 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-devel make sudo crontabs	
6	Install PEAR Library						●	Install the following Pear Package HTML_AJAX-beta	For online, use the following command to install. pear install HTML_AJAX-beta	
7	Configure HTML_AJAX-beta settings						●	ln -s /usr/share/pear-data/HTML_AJAX/js /usr/share/pear/HTML/js		
8	Install php-yaml					●		Install the following Package php-yaml	For online, use the following command to install. pecl channel-update pecl.php.net echo "" pecl install YAML	
9	Install PhpSpreadsheet						●	Create the following Directory mkdir -p /usr/share/php/vendor		
10								Install the PhpSpreadsheet package to the /usr/share/php/vendor directory.	For online, use the following command to install. curl -sS https://getcomposer.org/installer php -- --install-dir=/usr/bin /usr/bin/composer.phar require “phpoffice/phpspreadsheet”:”1.14.1” mv vendor /usr/share/php/	
Configure PHP										
11	【For CentOS7, RHEL7】 Configure php.ini						●	cp -p /(Installation file unpack location)/it-automation-x.x.x/ita_install_package/ext_files_for_CentOS7.x/etc/php.ini /etc/		
12	【For CentOS8, RHEL8】 Configure php.ini						●	cp -p /(Installation file unpack location)/it-automation-x.x.x/ita_install_package/ext_files_for_CentOS8.x/etc/php.ini /etc/		
13	【For CentOS8, RHEL8】 Configure www.conf						●	cp -p /(Installation file unpack location)/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 directory						●	mkdir -p /(ITA Installation directory)	※Make sure that “other users” also have permission to run all the parent directories of the ITA Install directory.	
15	Create data_relay_storage directory						●	mkdir /(ITA Installation directory)/data_relay_storage		

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16	Configure common directory						●		Create directory to share the following external storage.	
									<div>Cobbler server common directoryExternal storage common directory</div>	
									<div>/ (ITA Installation directory) /data_relay_storage/ (Free Directory) /data_relay_storage</div>	
17	Deploy ITA Files						●		cp -rp / (Installation file unpack location) /it-automation-x.x.x/ita_install_package/ITA/ita-contents/ita-root / (ITA Install directory) /.	
18	Deploy ITA Settings files						●		cp -rp / (Installation file unpack location) /it-automation-x.x.x/ita_install_package/ITA/ita-confs / (ITA Install directory) /ita-root/confs	
19	Create ITA Directory						●		For paths written in the / (Installation file unpack location) /it-automation-x.x.x/ita_install_package/install_scripts/list/create_dir_list.txt file, create directories one line at a time with / (ITA Install directory) at the beginning. mkdir -p / (ITA Install directory) (File path written in the document)	
20	Change Permission(755)						●		For paths written in the / (Installation file unpack location) /it-automation-x.x.x/ita_install_package/install_scripts/list/755_list.txt, Change the permissions one line at a time with / (ITA Install directory) at the beginning. chmod 755 / (ITA Install directory) (File path written in the document)	
21	Change Permission(777)						●		For paths written in the / (Installation file unpack location) /it-automation-x.x.x/ita_install_package/install_scripts/list/777_list.txt, Change the permissions one line at a time with / (ITA Install directory) at the beginning. chmod 777 / (ITA Install directory) (File path written in the document)	
22	Create Backyard settings file link						●		ln -s / (ITA Installation directory) /ita-root/confs/backyardconfs/ita_env /etc/sysconfig/ita_env	
23	Copy the cobbler_driver (Cobbler server side) backyard process service file						●		cp -p / (ITA Installation directory) /ita-root/backyards/cobbler_driver/*.service /usr/lib/systemd/system/.	
24	Configure resident settings and start the cobbler_driver (Cobbler server side) service.						●		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	
Configure hosts										
25	Configure /etc/hosts						●		vi /etc/hosts Add the following 127.0.0.1 (Cobbler server host name)	
Install Cobbler										
26	Install Cobbler						●		Please follow the official Cobbler developer manual and such documents.	