

Procedure

HA Construction (Cobbler)

The necessary packages are as listed below

https://github.com/exastro-suite/it-automation-docs/blob/master/asset/Documents/ITA-online-install_en.pdf

3.14 Construction(9/10)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	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 xzf exastro-it-automation-x.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, 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”:“1.18.0” 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/		

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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		
16	Configure common directory					●				Create directory to share the following external storage.		
										Cobbler server common directory		External storage common directory
										/(ITA Installation directory)/data_relay_storage	/(Free Directory)/data_relay_storage	
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.		