X Please change the the version number (x.x.x) written under "Settings" or "Remarks" to match the version of ΠA being installed. Please also change text such as "Host name", ITA Install directory" to fit your environment.

No. Goal	Common Menu create Host group Ansible Cobbler	CI/CD for IaC	Settings	Remarks
Unpack ITA Installation files Unpack ITA Installation files 2			deploy the ITA file vx.x.x.tar.gz to the installation file directory. cd / (Install file unpack directory) Is -I vx.x.x.tar.gz Unpack the ITA Installation files tar -zxf vx.x.x.tar.gz Configure ITA Installation directory find it-automation-x.x.x -type f xargs -I[] sed -i -e "s:%%%ITA_DIRECTORY%%%:/(ITA Install directory):g" {}	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.tar.gz
Install yum-utils				
4 [For CentOS7, RHEL7] Install yum-utils	•		Install the following package vum-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-Idap php-mbstring php-mysqlnd 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-mysqlnd 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			In -s /usr/share/pear-data/HTML_AJAX/js /usr/share/pear/HTML/js	
8 Install php-yaml 9 Install PhpSpreadsheet			Install the following package php-yaml Create the following directory	For online installation, please use the following command to install. pecl channel-update pecl.php.net echo "" pecl install YAML
an Install Physpicausileet			mkdir -p /usr/share/php/vendor	
			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 phpinstall-dir=/usr/bin /usr/bin/composer.phar require "phpoffice/phpspreadsheet":"1.14.1" mv vendor /usr/share/php/
Configure PHP				<u></u>
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/	

Goal	Common Menu create Host group Ansible Cobbler Terraform	Settings	Remarks
Install ITA Create Installation directory		mkdir -p /(ITA Install directory)	*Make sure that "other users" also have permission to run all the
			parent directories of the ITA Install directory.
Create Common directory		Create directory to share the following external storage. /(ITA Install directory)/data_relay_storage /(ITA Install directory)/ita-root/temp /(ITA Install directory)/ita-root/uploadfiles /(ITA Install directory)/ita-root/webroot/uploadfiles /(ITA Install directory)/ita-root/webroot/menus/sheets /(ITA Install directory)/ita-root/webroot/menus/users /(ITA Install directory)/ita-root/webconfs/sheets /(ITA Install directory)/ita-root/webconfs/users	
Configure common directory		Configure the external storage common directory settings to be as bellow.	
		common backyard server directory External storage common directory	
		/(ITA Install directory)/data_relay_storage /(Free Directory)/data_relay_storage	
		/(ITA Install directory)/ita-root/temp /(Free Directory)/ita-root/temp	
		/(ITA Install directory)/ita-root/uploadfiles /(Free Directory)/ita-root/uploadfiles	
		/(ITA Install directory)/ita-root/webroot/uploadfiles /(Free Directory)/ita-root/webroot/uploadfiles	
		/(ITA Install directory)/ita-root/webroot/menus/sheets /(Free Directory)/ita-root/webroot/menus/sheets	
		/(ITA Install directory)/ita-root/webroot/menus/users /(Free Directory)/ita-root/webroot/menus/users	
		/(ITA Install directory)/ita-root/webconfs/sheets /(Free Directory)/ita-root/webconfs/sheets	7
		/(ITA Install directory)/ita-root/webconfs/users /(Free Directory)/ita-root/webconfs/users	
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) /.	
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	· _
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.	
Change permission(755)		mkdir -p /(ITA Install directory) (File path written in the document) 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)	
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)	
Deploy ita_base release files		cp -p / (Installation file unpack location) / it-automation-x.x.x/ita_install_package/ITA/ita-releasefiles/ita_base / (ITA Install directory)/ita-root/libs/release/.	
Deploy createparam release file		cp -p /(Installation file unpack location)/it-automation-x.x.x/ita_install_package/ITA/ita-releasefiles/ita_createparam /(ITA Install directory)/ita-root/libs/release/.	
Deply hostgroup release files		cp -p /(Installation file unpack location)/it-automation-x.x.x/ita_install_package/ITA/ita-releasefiles/ita_hostgroup /(ITA Install directory)/ita-root/libs/release/.	
Deploy ansible_driver release files		cp -p / (Installation file unpack location) /it-automation-x.x.x/ita_install_package/ITA/ita-releasefiles/ita_ansible-driver / (ITA Install directory)/ita-root/libs/release/.	

	Goal					
0. Goal	Common Menu create	Host group	Cobbler	Terraform CI/CD for IaC	Settings	Remarks
Deploy cobbler_driver release files			•		cp -p / (Installation file unpack location) / it-automation-x.x.x/ita_install_package/ITA/ita-releasefiles/ita_cobbler-driver / (ITA Install directory)/ita-root/libs/release/.	
Deploy terraform_driver release files				•	cp -p / (Installation file unpack location)/it-automation-x.x.x/ita_install_package/ITA/ita-releasefiles/ita_terraform-driver / (ITA Install directory)/ita-root/libs/release/.	
Deply cicd_for_iac release files				•	cp -p / (Installation file unpack location) / it-automation-x.x.x/ita_install_package/ITA/ita-releasefiles/ita_cicd / (ITA Install directory)/ita-root/libs/release/.	
Configure MariaDB Connection information	•				①Make sure that following character string is base64 encoded and rot13 encrypted. mysql:dbname=(ITA Database name);host=(DBMS Server IP Address.)	Example:
					②Write the created character string into the file below. ※Delete any value already there. /(ITA Install directory)/ita-root/confs/commonconfs/db_connection_string.txt	If the ITA Database name is "ITA_DB" and the DBMS Server IP Address 1.1.1.1, The following command can be used to retrieve the base64–encoded, rot13–encrypted string.
						echo -ne "mysql:dbname=ITA_DB;host=1.1.1.1" base64 tr '[A-Za-z]' '[NZA-Mn-za-m]'
Configure MariaDB User information					"①Make sure that the MariaDB Username is base64 encoded and rot13 encrypted. ②Write the created character string into the file below. ※Delete any value already there. /(ITA Install directory)/ita-root/confs/commonconfs/db_username.txt	Example: If the MariaDB Username is "ITA_USER, The following command can be used to retrieve the base64-encoded, rot13-encrypted string. echo -ne "ITA_USER" base64 tr '[A-Za-z]' '[N-ZA-Mn-za-m]'
Configure MariaDB Password information	•				①Make sure that the MariaDB Password is base64 encoded and rot13 encrypted. ②Write the created character string into the file below. ※Delete any value already there.	Example: If the MariaDB password is "ITA_PASSWD, The following command can bused to retrieve the base64-encoded, rot13-encrypted string.
					/(ITA Install directory)/ita-root/confs/commonconfs/db_password.txt	echo -ne "ITA_PASSWD" base64 tr '[A-Za-z]' '[N-ZA-Mn-za-m]'
Configure ITA backyard settings Create backyard file link.		 			In -s /(ITA Install directory)/ita-root/confs/backyardconfs/ita_env /etc/sysconfig/ita_env	T
	•					
Copy the ita_base backyard process service file.					Copy the service file written in the (Installation file unpack location)/it-automation-x.x.x/ita_install_package/install_scripts/list/base_service_list.txt file to /usr/lib/systemd/system/	
					cp -p /(ITA Install directory)/(Service file written in base_service_list.txt).service /usr/lib/systemd/system/.	
Copy the createparam backyard process service file.					Copy the service file written in the (Installation file unpack location)/it-automation-x.x.x/ita_install_package/install_scripts/list/createparam_service_list.txt file to /usr/lib/systemd/system/	
					cp -p /(ITA Install directory)/(Service file written in createparam_service_list.txt).service /usr/lib/systemd/system/.	
Copy the hostgroup backyard process service file.		•			Copy the service file written in the (Installation file unpack location)/it-automation-x.x.x/ita_install_package/install_scripts/list/hostgroup_service_list.txt file to /usr/lib/systemd/system/	
					cp -p /(ITA Install directory)/(Service file written in hostgroup_service_list.txt).service /usr/lib/systemd/system/.	
Copy the ansible_driver backyard process service file.		•	1		Copy the service file written in the (Installation file unpack location)/it-automation-x.x.x/ita_install_package/install_scripts/list/ansible_service_list.txt file to /usr/lib/systemd/system/	
					cp -p /(ITA Install directory)/(Service file written in ansible_service_list.txt).service /usr/lib/systemd/system/.	
Copy the ansible_driver (Collect function) backyard process service file. **XOnly if you are installing createparam and Ansible_driver.	•	•	1		Copy the service file written in the (Installation file unpack location)/it-automation-x.x.x/ita_install_package/install_scripts/list/createparam2_service_list.txt file to /usr/lib/systemd/system/	
					cp -p /(ITA Install directory)/(Service file written in createparam2_service_list.txt).service /usr/lib/systemd/system/.	
Copy the cobbler driver backyard process service file.			•		Copy the service file written in the (Installation file unpack location)/it-automation-x.x.x/ita_install_package/install_scripts/list/cobbler_service_list.txt file to /usr/lib/systemd/system/	
					cp -p /(ITA Install directory)/(Service file written in cobbler_service_list.txt).service /usr/lib/systemd/system/.	
Copy the Terraform_driver backyard process service file.				•	Copy the service file written in the (Installation file unpack location)/it-automation-x.x.x/ita_install_package/install_scripts/list/terraform_service_list.txt file to /usr/lib/systemd/system/	
					cp -p /(ITA Install directory)/(Service file written in terraform_service_list.txt).service /usr/lib/systemd/system/.	
Copy the cicd for iac backyard process file.				•	Copy the service file written in the (Installation file unpack location)/it-automation-x.x.x/ita_install_package/install_scripts/list/cicd_service_list.txt file to /usr/lib/systemd/system/	
1					cp -p /(ITA Install directory)/(Service file written in cicd_service_list.txt).service /usr/lib/systemd/system/.	

No. Goal	Common Menu create Host group Ansible Cobbler Terraform CI/CD for IaC	Settings	Remarks
Configure the service resident settings.		s -1 /usr/lib/systemd/system/. grep ky_ xargs systemctl enable	
42 Start service		ls -1 /usr/lib/systemd/system/. grep ky_ xargs systemctl start	
Configure ITA cron			
43 Configure cron		crontab -e Add the following contents 01 00 * * * suc /(ITA Install directory)/ita-root/backyards/common/ky_execinstance_dataautoclean-workflow.sh' 02 00 * * * suc /(ITA Install directory)/ita-root/backyards/common/ky_file_autoclean-workflow.sh'	
Configure hosts settings			
44 Configure /etc/hosts		vi /etc/hosts Add the following.(For the description of link driver server, please add only the one for the server to be used.) 127.0.0.1 (Backyard server host name) (Ansible Server IP Address) (Ansible Server Host name) (AnsibleTower Server IP Address) (AnsibleTower Server Host name) (Cobbler Server IP Address) (Cobbler Server Host Name)"	
Install Git			
45 Install Git		Install the following package git	For Online, use the following command to install yum install -y git