※ 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 Ansible server", please replace them according to the installation environment.

No. Target Deploy ITA installation file	Common File manage Create menu Host group Ansible Cobbler	Setting	Notes
Deploy ITA Installation file Deploy ITA installation file 2 3 4		Please place the ITA file vx.x.x.tar.gz in the installation file deployment directory cd / (installation file deployment directory) s - l vx.x.x.tar.gz Please extract ITA installation file tar -zxf vx.x.x.tar.gz Change the privilege of shell find it-automation-x.x.x -type f -name *.sh xargs chmod 755 Set the ITA installation directory find it-automation-x.x.x -type f xargs -I[] sed -i -e "s:%%%%ITA_DIRECTORY%%%%:/(ITA installation target directory):g" {}	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-automation/archive/vx.x.x.tar.gz
Install yum-utils			
5 [For CentOS7, RHEL7] Install yum-utils		Please install the following package yum-utils	Please install via the following command when performing online installation
Install Apache			
6 Install Apache		Please install the following package httpd mod_ssl	Please install via the following command when performing online installation
7 Set autostart of Apache	$ \cdot \cdot \cdot \cdot $	systemctl enable httpd	
Install PHP Install PHP		Please install the following package 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-zip php-gd python3	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-managerenable 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-mysqlnd php-pear php-pecl-zip php-process php-snmp php-xml zip telnet mailx unzip php-json php-zip php-gd python3
9 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
10 Set HTML_AJAX-beta		In -s /usr/share/pear-data/HTML_AJAX/js /usr/share/pear/HTML/js	pss
Install Spyc 12		mkdir -p /usr/share/php/spyc-master Please install the Spyc package in /usr/share/php/spyc-master directory	Please install via the following command when performing online installation curl -L https://github.com/mustangostang/spyc/archive/0.6.2.tar.gz tar zxstrip-components=1 -C /usr/share/php/spyc-master
13 Install PhpSpreadsheet		Please create the following directory mkdir -p /usr/share/php/vendor	
		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 phpinstall-dir=/usr/bin /usr/bin/composer.phar require "phpoffice/phpspreadsheet":"*" mv vendor /usr/share/php/
Set PHP 15 [For CentOS7, RHEL7]		cp -p /(installation file deployment directory)/it-automation-x.x.x/ita_install_package/ext_files_for_CentOS7.x/etc/php.ini /etc/	
Set php.ini 16 [For CentOS8, RHEL8]		cp -p / (installation file deployment directory) / it-automation-x.x.x / ita_install_package / ext_files_for_CentOS / .x / etc / pnp.ini / etc / cp -p / (installation file deployment directory) / it-automation-x.x.x / ita_install_package / ext_files_for_CentOS 8.x / etc / php.ini / etc /	
Set php.ini 17 [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/	
Edit sudoers			

	Tar	get	
O. Target	File manage Create menu Host group	Ansible Cobbler OpenStack	Setting Notes
8 Edit sudoers file			vi /etc/sudoers Please add the following content daemon ALL=(ALL) NOPASSWD:ALL apache ALL=(ALL) NOPASSWD:ALL
Install ITA 9 Create installation target directory	<u> </u>		mkdir -p / (ITA installation target directory)
	\bot \bot \bot		
Create data_relay_storage directory			mkdir / (ITA installation target directory) / data_relay_storage
Set shared directory			Please set the shared directory for external storage as follows. Shared directory for Ansible server Shared directory for external storage /(ITA installation target directory)/data_relay_storage /(any desired shared directory)/data_relay_storage
2 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) /.
3 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
4 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)
5 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)
6 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)
Set Apache			
7 Set /etc/hosts			vi /etc/hosts Please add the following content 127.0.0.1 (Host name of Ansible server)
Create the key of certificate **Although the procedure of self-signed certificate in shown, it is OK to use certificate published by certificate authority or access with http without certificate **The second of the second of			cd /tmp opensal genrsa 2048 > (Hostname of Ansible server) .key opensal req =new -key (Hostname of Ansible server) .key > (Hostname of Ansible server)csr ~~~~~ Dialog~~~~~ Country Name (2 letter code) [XX]:(Blank is OK) State or Province Name (full name) []:(Blank is OK) Locality Name (eg. city) [Default City);(Blank is OK) Organization Name (eg. company) [Default Company Ltd]:(Blank is OK) Organization Name (eg. section) []:(Blank is OK) Common Name (eg. your name or your server's hostname) []: (Hostname of Ansible server) . Email Address []:(Blank is OK) A challenge password []:(Blank is OK) An optional company name []:(Blank is OK) ~~~~~ Dialog~~~~~ opensal x509 =days 3650 =req =signkey (Hostname of Ansible server)key < (Hostname of Ansible server)csr > (Hostname of Ansible server)csr mv (Hostname of Ansible server)key /etc/pki/tls/certs/ mv (Hostname of Ansible server)ert /etc/pki/tls/certs/
9 [For CentOS7、RHEL7] Deploy conf file for Apache	1	•	cp -p / (installation file deployment directory) / it-automation-x.x.x/ita_install_package/ext_files_for_CentOS7.x/etc_httpd_conf.d/vhosts_exastro-it-automation.conf / etc/httpd/conf.d/
0 [For CentOS8、RHEL8] Deploy conf file for Apache			cp -p /(installation file deployment directory)/it-automation-x.x.x/ita_install_package/ext_files_for_CentOS8.x/etc_httpd_conf.d/vhosts_exastro-it-automation.conf /etc/httpd/conf.d/
Edit the conf file for Apache			vi /etc/httpd/conf.d/vhosts_exastro-it-automation.conf PLease replace exastro-it-automation with (Host name of Ansible server) in the following 3 places in the file ServerName (Host name of Ansible server) SSLCertificateFile /etc/pki/tls/certs/(Host name of Ansible server).crt SSLCertificateKeyFile /etc/pki/tls/certs/(Host name of Ansible server).key
Restart Apache		•	systemctl restart httpd

	Target	Common File manage Create menu Host group Ansible Cobbler OpenStack DSC	Setting	Notes
Install Ansible				
Install Ansible			Please install the following package via pip3 ansible pexpect pywinrm boto3	Please install via the following command when performing online installation pip3 install ansible pexpect pywinrm boto3
Create the directory for	the setting file of Ansible		mkdir -p /etc/ansible/	
[For CentOS7, RHEL7] Deploy the setting file of	Ansible		cp -p / (installation file deployment directory) / it-automation-x.x.x/ita_install_package/ext_files_for_CentOS7.x/etc_ansible/ansible.cfg / etc/ansible/ansible.cfg	
[For CentOS8, RHEL8] Deploy the setting file of	Ansible		cp -p / (installation file deployment directory) /it-automation-x.x.x/ita_install_package/ext_files_for_CentOS8.x/etc_ansible/ansible.cfg /etc/ansible/ansible.cfg	
Install required package f	or Ansible		Please install the following package sshpass expect	Please install via the following command when performing online installation yum install -y sshpass expect
Describe the path of Ans	ible-playbook in management file		Please desctribe the path acquired via the following command in /(ITA installation target directory)/ita-root/confs/commonconfs/path_ANSIBLE_MODULE.txt whereis ansible-playbook	Example: Please enter /usr/local/bin if /usr/local/bin/ansible-playbook is displayed.