** 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	Target Bann Bann Bann Bann Bann Bann Bann Ban	Setting	Notes
	Con Create Host Ans		
Deploy ITA installation file			<u> </u>
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) Is -I vx.x.x.tar.gz Please extract ITA installation file tar -zxf 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-automation/archive/vx.x.x.tar.gz
		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" []	
Install yum-utils 4 [For CentOS7, RHEL7]		Please install the following package	Please install via the following command when performing online installation
Install yum-utils Install Apache		yum-utils	yum install -y yum-utils
5 Install Apache		Please install the following package httpd mod_ssl systemctl enable httpd	Please install via the following command when performing online installation yum install -y httpd mod_ssl
6 Set autostart of Apache		systemen enable nepu	
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-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-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-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
8 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
9 Set HTML_AJAX-beta		In -s /usr/share/pear-data/HTML_AJAX/js /usr/share/pear/HTML/js	
10 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
11 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":"1.14.1"
			mv vendor /usr/share/php/
Set PHP 13 [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		φ γ / \text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\tint{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\tex{\tex	
[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/	
15 [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 sudo setting 16 Create sudo setting file		/etc/sudoers.d/(any desired file name)	Sample Command:
S. Sale Sale Sociality in C		Please create a file with the following content in the directory above. daemon ALL=(ALL) NOPASSWD:ALL apache ALL=(ALL) NOPASSWD:ALL	cat << EOS > /etc/sudoers.d/it-automation daemon ALL=(ALL) NOPASSWD:ALL apache ALL=(ALL) NOPASSWD:ALL EOS
17 Change privilege of sudo setting file		Please change the prvilige of the sudo setting file to 440 chmod 440 /etc/sudoers.d/(any desired file name)	

	Target					
Target	Common File manage Create menu	Host group	Cobbler	Setting	Notes	
Edit sudoers file		•		vi /etc/sudoers check the sudoers file. Please comment out the following line if it exists. (If it's already commented, this procedure is not required.) Defaults requiretty		
Install ITA						
Create installation target directory		•	P	mkdir -p / (ITA installation target directory)	**Please give all parent directories of the ITA installation directory permission to execute "Other Users".	
Create data_relay_storage directory	+	•	+	mkdir / (ITA installation target directory) / data_relay_storage	permission to execute Other Osers .	
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		
Deploy ITA file	+	1	•	cp -rp /(installation file deployment directory)/it-automation-x.x.x/ita_install_package/ITA/ita-contents/ita-root /(ITA installation target directory)/.		
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		
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)		
Change privilege(755)		1		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 b adding /(ITA installation target directory) in front of the paths	y 	
				chmod 755 /(ITA installation target directory)(path written in the file)		
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 b / (ITA installation target directory) in front of the paths	у	
				chmod 777 /(ITA installation target directory)(path written in the file)		
Set Apache 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				cd /tmp openssl genrsa 2048 > (Hostname of Ansible server) .key openssl req -new -key (Hostname of Ansible server) .key > (Hostname of Ansible server)csr	If the server certificate comes with an intermediate certificate, crefile by connecting the intermediate certificate to the server certificate Example of a create command cat [Server Certificate File] [Intermediate Certificate File] > [Consolid Server Certificate File]	
[For CentOS7、RHEL7] Deploy conf file for Apache		•		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/		
[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)		

No. Target	Common File manage Oreate menu Host group Ansible Cobbler Terraform	Setting	Notes
Install Ansible			
33 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	
37 Install required package for Ansible		Please install the following package sshpass expect	Please install via the following command when performing online installation yum install -y sshpass expect
38 Describe the path of Ansible-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.