User/Connection requirements

Nº	Operation	master Save		Remarks
1. Insta	all ITA			
1-1 li	nstall ITA	•	Please see the All in one installation manual below https://exastro-suite.github.io/it-automation-docs/learn_ia.html#deploy	
2.DRB	D Synchronization settings			
2-1	Configure the environment settings for construction		[Setting line] Change the red text to fit the user environment (In this manual, we will use the environment described in the previous section, "2. System Configuration export ha1_name=ita-ha-sv01	If you want to re-login in the middle of the procedure, please run this command again.
2-2 A	Add elrepo repository for installing DRBD	•	yum -y install http://www.elrepo.org/elrepo-release-8.1-1.el8.elrepo.noarch.rpm	
2-3 li	nstall DRBD	•	yum -y install drbd kmod-drbd90	
	Name resolution not necessary if DNS Server is used Allow HA configuration nodes to resolve each other's names  Name of the resolution		echo "\${ha1_addr} \${ha1_name}" >> /etc/hosts echo "\${ha2_addr} \${ha2_name}" >> /etc/hosts	
2-5 L	Jse DRBD init script to define DRBD operation when starting.		vi /etc/drbd.d/global_common.conf  startup {     # wfc-timeout degr-wfc-timeout outdated-wfc-timeout wait-after-sb     wfc-timeout 5;	

User/Connection requirements

		Serv		
Nº	Operation	master	Contents  (※When "Master" and "Slave" server configuration is required, please configure them in	Remarks
		mas	paralell)	
	Comment out any commands that does not exist in version 9.0 or later from the DBRD systemd settings file.		vi /usr/lib/systemd/system/drbd.service  [Service] (Display order)	
2-7	Create /dev/vdc1	•	echo -e "\nn\np\n1\n\n+(Partition size)\nw"   fdisk /dev/vdc	(Partition size) equals Number+Measure unit. K = KibiByte, M = MebiByte, G = GibiByte. E.g.) 5 GibiByte = 5G
2-8	Create /dev/vdc2 **When using all remaining free space on the DRBD Synchronization volume.	•	echo -e "\nn\np\n2\n\n\nw"   fdisk /dev/vdc	
	Fill the created partision date with "0" and reset the file system.		dd if=/dev/zero of=/dev/vdc1 bs=1M count=1 dd if=/dev/zero of=/dev/vdc2 bs=1M count=1	
2-10	Create DRBD settings file		cat > /etc/drbd.d/r0.res << DRBD resource r0 { device /dev/drbd0; disk /dev/vdc1; meta-disk internal; on \$ha1_name { address \$ha1_addr:7788; } on \$ha2_name { address \$ha2_addr:7788; } } On \$ha2_name { address \$ha2_addr:7788; } } DRBD	Install the commands together
			cat > /etc/drbd.d/r1.res << DRBD resource r1 {     device /dev/drbd1;     disk /dev/vdc2;     meta-disk internal;     on \$ha1_name {         address \$ha1_addr:7789;     }     on \$ha2_name {         address \$ha2_addr:7789;     } } DRBD	Install the commands together
	**Only if using firewalld Allow communication to the used port.	•	firewall-cmdadd-port=7788/tcpzone=publicpermanent firewall-cmdadd-port=7789/tcpzone=publicpermanent firewall-cmdreload	
2-12	Create DRBD resource meta data	•	drbdadm create-md r0 drbdadm create-md r1	
2-13	Run DRBD service	•	systemctl start drbd	

User/Connection requirements

<b>№</b> 2-14	Operation  Configure the mount for ITA synchronization on the master side.	master S	Contents	Remarks
	Initial Synchronize the DRBD synchronization devices from Master to Slave.	•	drbdadm primaryforce all	
	Format the DRBD synchronization devices using xfs.	•	mkfs -t xfs /dev/drbd0 mkfs -t xfs /dev/drbd1	
	Configure ITA Synchronization file mount (drbd0)			
	Create a directory of ITA Synchronization and mount the DRDB Synchronization devi	d •	mkdir -p /mnt/(ITA Install path) mount /dev/drbd0 /mnt/(ITA Install path)	Please change the red text to fit your environment.
	Store the ITA Installation directory in array variables.		dirs=(     "/(ITA Install path)/data_relay_storage/symphony"     "/(ITA Install path)/data_relay_storage/conductor"     "/(ITA Install path)/data_relay_storage/conductor"     "/(ITA Install path)/ita_relay_storage/ansible_driver"     "/(ITA Install path)/ita_sessions"     "/(ITA Install path)/ita-root/temp"     "/(ITA Install path)/ita-root/uploadfiles"     "/(ITA Install path)/ita-root/webroot/uploadfiles"     "/(ITA Install path)/ita-root/webroot/menus/sheets"     "/(ITA Install path)/ita-root/webroot/menus/users"     "/(ITA Install path)/ita-root/webconfs/sheets"     "/(ITA Install path)/ita-root/webconfs/sheets"     "/(ITA Install path)/ita-root/webconfs/users"	Install the commands together Please change the red text to fit your environment.
	Move the data from the ITA Synchronization directory to the DRBD Synchronization of and create a symbolic link to the ITA Installation path.		for dir in "\${dirs[@]}"; do  ## directory backup  if [-d \${dir}]; then	Install the commands together
	Configure MariaDB Datafile device (drbd1)  Save the source MariaDB data		cp -pr /var/lib/mysql /var/lib/mysql.org	
		Ш		
	Mount /var/lib/mysql to the DRBD Synchronization device	•	mount /dev/drbd1 /var/lib/mysql chown -R mysql:mysql /var/lib/mysql	
	Copy the MariaDB Data to the mount (Synchronize) and delete the saved source data	•	rsync -adelete /var/lib/mysql.org/ /var/lib/mysql/ rm -rf /var/lib/mysql.org	
	Unmount the DRBD Synchronization device.	•	umount /dev/drbd0 umount /dev/drbd1	
	Demote the DRBD Resource to Secondary.	•	drbdadm secondary all	

User/Connection requirements

		Serv	vel	
Nº	Operation	er	Contents Someon Contents Configuration is required, please configure them in	Remarks
144	Operation	naster	paralell)	Remarks
		=		
2-15	Configure the Slave server's ITA Synchronization mount.  Initial synchronize the Slave storage to the Master storage.	т т	drbdadm primaryforce all	
	illitial sylicinolize the Slave storage to the Master storage.	Ш	dibuaum primarytorce all	
	Format the DRBD Synchronization partition using xfs	1	mkfs -t xfs /dev/drbd0	
			mkfs -t xfs /dev/drbd1	
	Configure ITA Synchronization file mount (drbd0)			
	Create a directory for ITA Synchronization and mount it to DRBD Synchronization de	ice.	mkdir -p /mnt/(ITA Install path)	Please change the red text to fit your environment.
			mount /dev/drbd0 /mnt/(ITA Install path)	
	Store the ITA Synchronization directory in an array variable.	H	dirs=(	Install the commands together
			"/(ITA Install path)/data_relay_storage/symphony"	Please change the red text to fit your environment.
			"/(ITA Install path)/data_relay_storage/conductor"	
			"/(ITA Install path)/data_relay_storage/ansible_driver"  "/(ITA Install path)/ita_sessions"	
			"/(ITA Install path)/ita-root/temp"	
			"/(ITA Install path)/ita-root/uploadfiles"	
			"/(ITA Install path)/ita-root/webroot/uploadfiles"  "/(ITA Install path)/ita-root/webroot/menus/sheets"	
			"/(ITA Install path)/ita-root/webroot/menus/users"	
			"/(ITA Install path)/ita-root/webconfs/sheets"	
			"/(ITA Install path)/ita-root/webconfs/users"	
			)	
	Move the data from the ITA Synchronization directory to the DRBD Synchronization of	evid		Install the commands together
	and create a symbolic link to the ITA Installation path.		## back-up directory	
			if [ -d \${dir} ]; then mv \${dir}{org}	
			fi	
			## Create directory under the mounted directory	
			if [! -d `dirname /mnt\${dir}`]; then mkdir -p `dirname /mnt\${dir}`	
			fi	
			## Copy ITA Data to under the mounted directory	
			if [!-d /mnt\${dir}]; then	
			cp -pr \${dir}.org /mnt\${dir}/	
			## Create symbolic link	
			if [ -d /mnt\${dir} ]; then	
			In -s "/mnt"\${dir} \${dir} fi	
			## Comment in if you want to detele the backed up directory.	
			# if [ -d \${dir}.org ]; then	
			# rm -rf \${dir}.org # fi	
			# 11 done	
	Configure Device for MariaDB Data files (drbd1)  Mayor // vor/lib/govered to DBBD Synchronization devices	1 1	mount (dov/drhd4, kor/lib/myod	
	Mount /var/lib/mysql to DRBD Synchronization device.	$\prod'$	mount /dev/drbd1 /var/lib/mysql chown -R mysql:mysql /var/lib/mysql	
		Ш		
	Unmount the DRBD Synchronization partition.		umount /dev/drbd0	
			umount /dev/drbd1	
	Demote the DRBD Resource to Secondary.	Ħ	drbdadm secondary all	
2-16	Stop DRBD Service		systemctl stop drbd	

User/Connection requirements

N₂	Operation	master So		Remarks
3.Maria DB Stop settings				
3-1 Stop Maria DB		•	systemctl disable mariadb systemctl stop mariadb	
4.ITA Stop settings				
4-1 Stop ITA services (ky_*)				Some services might not exist depending on the ITA Version. In that case, there will be no need to stop said service.

User/Connection requirements

Nº	Operation	master Save	0	Remarks
4-2	Deactivate automatic startup for the different ITA services (ky_*)		systemctl disable ky_ansible_execute-workflow.service systemctl disable ky_ansible_execute-workflow.service systemctl disable ky_ansible_towermasterSync-workflow.service systemctl disable ky_bulk_excel-workflow.service systemctl disable ky_change_col_to_row.service systemctl disable ky_cmabmenuanalysis-workflow.service systemctl disable ky_create_er-workflow.service systemctl disable ky_create_param_menu_execute.service systemctl disable ky_nostgroup_check_loop.service systemctl disable ky_hostgroup_split.service systemctl disable ky_legacy_role_valautostup-workflow.service systemctl disable ky_legacy_role_varautolistup-workflow.service systemctl disable ky_legacy_role_varautolistup-workflow.service systemctl disable ky_legacy_varsautolistup-workflow.service systemctl disable ky_legacy_varsautolistup-workflow.service systemctl disable ky_pioneer_valautostup-workflow.service systemctl disable ky_pioneer_valautostup-workflow.service systemctl disable ky_pioneer_varsautolistup-workflow.service systemctl disable ky_std_synchronize-Conductor.service systemctl disable ky_std_synchronize-Conductor.service systemctl disable ky_std_synchronize-Conductor.service systemctl disable ky_std_synchronize-regularly.service systemctl disable ky_std_synchronize-regularly.service systemctl disable ky_std_synchronize-regularly.service systemctl disable ky_std_synchronize-regularly.service systemctl disable ky_terraform_execute-workflow.service systemctl disable ky_terraform_execute-workflow.service systemctl disable ky_terraform_execute-workflow.service systemctl disable ky_terraform_execute-workflow.service systemctl disable ky_terraform_varsautolistup-workflow.service systemctl disable ky_terraform_varsautolistup-workflow.service	Some services might not exist depending on the ITA Version. In that case, there will be no need to stop said service.
5.Apa	che resource settings			
5-1	Create Apacha Server status		cat > /etc/httpd/conf.d/server_status.conf << STAT ExtendedStatus On <location server-status=""> SetHandler server-status Order deny,allow Deny from all Allow from localhost </location> STAT	Install the commands together
5-2	Stop/Deactivate Apache service.	•	systemctl disable httpd systemctl stop httpd	
5-3	Copy the https server certificate/sercret key from the master server to the slave server.	•	scp /etc/pki/tls/certs/(https server certificate name ).crt \${ha2_addr}:/etc/pki/tls/certs/scp /etc/pki/tls/certs/(https server certificate name ).key \${ha2_addr}:/etc/pki/tls/certs/	Make sure to change the https server certificate/secret key to the file name used when installing the ITA Server.

User/Connection requirements

Nº	Operation	master 6		Remarks
6.Pace	emaker settings			
6-1	nstall HA Software	•	yumenablerepo=rhel-8-for-x86_64-highavailability-rpms install pacemaker pcs drbd-pacemaker NetworkManaqer NetworkManaqer-confiq-server systemctl restart NetworkManager	
	*Do only if under a proxy. Add main machine/secondary machine IP to no_proxy		sed -i 's/^export\ NO_PROXY/export no_proxy=\\$no_proxy, \$\an_name', \$\an_ane^nexport NO_PROXY/ /etc/profile.d/proxy.sh  sed -i 's/^setenv\ NO_PROXY/setenv no_proxy=\\$no_proxy, \$\an_name', \$\an_ane^nsetenv NO_PROXY/ /etc/profile.d/proxy.csh  source /etc/profile.d/proxy.sh source /etc/profile.d/proxy.csh	※Run one time after pasting the text
	<mark>%Do only if firewalld is used</mark> add firewalld settings	•	firewall-cmdadd-service=high-availabilitypermanent firewall-cmdreload	
6-4	Modify corosync.service settings	•	cp -p /usr/lib/systemd/system/corosync.service /etc/systemd/system/ sed -i 's/^#Restart=on.*/Restart=on-failure/' /etc/systemd/system/corosync.service sed -i 's/^#RestartSec=.*/RestartSec=70/ /etc/systemd/system/corosync.service	
6-5	Treat Pacemaker internal process failure as a node failure	•	sed -i 's/^#\ PCMK\_fail\_fast.*/PCMK_fail_fast=yes/' /etc/sysconfig/pacemaker	
6-6	Modify pacemaker.service settings	•	cp -p /usr/lib/systemd/system/pacemaker.service /etc/systemd/system sed -i "s/^#\ ExecStopPost=\bin\sh.*/ExecStopPost=\bin\shc 'pidof crmd \\\ killall -TERM corosync'/" /etc/systemd/system/pacemaker.service	
6-7	Generate/deploy cluster certification setting file	•	corosync-keygen -l scp -p /etc/corosync/authkey root@\${ha2_addr}:/etc/corosync/authkey	
6-8	Configure password for the "hacluster" user ID (pcs admin account).	•	passwd hacluster New password:xxxxxx Re-input the new password:xxxxxx passwd: Successfully updated all authentication tokens.	Please change the red text to fit your environment.  Make sure the password for both master and slave are the
6-9	Start pcsd service and configure pcsd so it is active when the system starts.	•	systemctl enable pcsd systemctl start pcsd systemctl status pcsd	

User/Connection requirements

		Serv		
Nº	Operation	master	Contents  (※When "Master" and "Slave" server configuration is required, please configure them in paralell)	Remarks
6-10	Authenticate cluster	•	pcs host auth \${ha1_name} \${ha2_name} Username: hacluster Password:(Password set with "passwd hacluster")	Please change the red text to fit your environment.
6-11	Set up cluster	•	pcs cluster setup haclusterstart \${ha1 name} addr=\${ha1 addr} \${ha2 name} addr=\${ha2 addr}	
6-12	Deactivate STONITH (Shoot The Other Node In The Head) option	•	pcs property set stonith-enabled=false	
	Configure the clusters so that no special actions are carried and all nodes are managed if the minimum required number of nodes are not reached.	•	pcs property set no-quorum-policy=ignore	
6-14	Configure attribute wait time.	•	pcs property set transition-delay="0s"	
6-15	Deactivate automatic failback.	•	pcs resource defaults resource-stickiness="INFINITY" migration-threshold="1"	
6-16	Configure the clusters so they run automatically	•	pcs cluster enableall	
6-17	Configure vip resources	•	pcs resource create virtual_ip ocf:heartbeat:lPaddr2 ip=\${virtual_ip_addr} cidr_netmask=24 \ op monitor interval=10s timeout=30s \ op start interval=0s timeout=20s \ op stop interval=0s timeout=20s	
6-18	Register r0 DRBD device as resource	•	pcs resource create drbd_r0 ocf:linbit:drbd drbd_resource=r0 \ op monitor interval=10s role=Master \ op monitor interval=30s role=Slave \ op notify interval=0s timeout=90s \ op promote interval=0s timeout=90s \ op reload interval=0s timeout=30s \ op start interval=0s timeout=240s \ op stop interval=0s timeout=100s	
6-19	Register r1 DRBD device as resource	•	pcs resource create drbd_r1 ocf:linbit:drbd drbd_resource=r1 \ op monitor interval=10s role=Master \ op monitor interval=30s role=Slave \ op notify interval=0s timeout=90s \ op promote interval=0s timeout=90s \ op reload interval=0s timeout=30s \ op start interval=0s timeout=240s \ op stop interval=0s timeout=100s	
6-20	Configure resource settings for DRBD block devices	•	pcs resource create fs_exastro ocf:heartbeat:Filesystem device=/dev/drbd0 directory=/mnt/exastro fstype=xfs pcs resource create fs_mariadb ocf:heartbeat:Filesystem device=/dev/drbd1 directory=/var/lib/mysql fstype=xfs	
6-21	Configure httpd resources	•	pcs resource create httpd systemd:httpd \ op monitor interval=60s timeout=100s \ op start interval=0s timeout=100s \ op stop interval=0s timeout=100s	

User/Connection requirements

	Serve		
	5 0	Contents	
Nº Operation	maste	(※When "Master" and "Slave" server configuration is required, please configure them in Remarks  paralell)	
6-22 Configure ITA service (ky_*) resources		(*When "Master" and "Slave" server configuration is required, please configure them in paralell)  pcs resource create ky_activedirectory_roleuser_replication-workflow systemd:ky_ansible_execute-workflow \ pop start interval=0s timeout=100s \ ps start interval=0s timeout=100s \ ps start interval=0s timeout=100s \ pop start interval=0s timeout=60s \ pop stop interval=0s timeout=60s \ pop start interva	
		op monitor interval=30s timeout=60s \ op start interval=0s timeout=60s \ op stop interval=0s timeout=60s  op stop interval=0s timeout=60s	
		pcs resource create ky_create_param_menu_execute systemd:ky_create_param_menu_execute \ op monitor interval=30s timeout=60s \ op start interval=0s timeout=60s \ op stop interval=0s timeout=60s	
		pcs resource create ky_data_portability_execute-workflow systemd:ky_data_portability_execute-workflow \ op monitor interval=30s timeout=60s \ op start interval=0s timeout=60s \ op stop interval=0s timeout=60s	

User/Connection requirements

	Serve		
		Contents	
N⊵ Operation	master	( When "Master" and "Slave" server configuration is required, please configure them in	Remarks
	l ii l	paralell)	
6-22 Configure ITA service (ky_*) resources	•	pcs resource create ky_hostgroup_check_loop systemd:ky_hostgroup_check_loop \	
		op monitor interval=30s timeout=60s \	
		op start interval=0s timeout=60s \	
		op stop interval=0s timeout=60s	
		pcs resource create ky_hostgroup_split systemd:ky_hostgroup_split \	
		op monitor interval=30s timeout=60s \	
		op start interval=0s timeout=60s \	
		op stop interval=0s timeout=60s	
		pcs resource create ky_legacy_role_valautostup-workflow systemd:ky_legacy_role_valautostup-workflow	\
		op monitor interval=30s timeout=60s \	
		op start interval=0s timeout=60s \ op stop interval=0s timeout=60s	
		Top stop interval=os timeout=oos	
		pcs resource create ky_legacy_role_varsautolistup-workflow systemd:ky_legacy_role_varsautolistup-workflow	flow \
		op monitor interval=30s timeout=60s \	
		op start interval=0s timeout=60s \	
		op stop interval=0s timeout=60s	
		pcs resource create ky_legacy_valautostup-workflow systemd:ky_legacy_valautostup-workflow \	
		op monitor interval=30s timeout=60s \	
		op start interval=0s timeout=60s \	
		op stop interval=0s timeout=60s	
		pcs resource create ky_legacy_varsautolistup-workflow systemd:ky_legacy_varsautolistup-workflow \	
		op monitor interval=30s timeout=60s \	
		op start interval=0s timeout=60s \ op stop interval=0s timeout=60s	
		op stop interval=os timeout=oos	
		pcs resource create ky_pioneer_valautostup-workflow systemd:ky_pioneer_valautostup-workflow \	
		op monitor interval=30s timeout=60s \	
		op start interval=0s timeout=60s \	
		op stop interval=0s timeout=60s	
		pcs resource create ky_pioneer_varsautolistup-workflow systemd:ky_pioneer_varsautolistup-workflow \	
		op monitor interval=30s timeout=60s \	
		op start interval=0s timeout=60s \ op stop interval=0s timeout=60s	
		op stop interval—os timeout=ous	
		pcs resource create ky_std_checkcondition-linklist systemd:ky_std_checkcondition-linklist \	
		op monitor interval=30s timeout=60s \	
		op start interval=0s timeout=60s \	
		op stop interval=0s timeout=60s	
		l	

User/Connection requirements

	Serve		
Nº Operation	master slave	( When "Master" and "Slave" server configuration is required, please configure them in paralell)	Remarks
6-22 Configure ITA service (ky_*) resources		pcs resource create ky_std_synchronize-Conductor systemd:ky_std_synchronize-Conductor \ op monitor interval=30s timeout=60s \ op start interval=0s timeout=60s \ op stop interval=30s timeout=60s \ op stop interval=30s timeout=60s \ op stop interval=30s timeout=60s \ op start interval=30s timeout=60s \ op start interval=30s timeout=60s \ op stop interval=30s timeout=60s \ op start interval=30s timeout=60s \ op start interval=30s timeout=60s \ op stop interval=30s timeout=60s \ op start interval=30s timeout=60s \ op stop interval=30	
6-23 Configure mariadb resources		pcs resource create mariadb systemd:mariadb \ op monitor interval=60s timeout=100s \ op start interval=0s timeout=100s \ op stop interval=0s timeout=100s	

User/Connection requirements

Nº	Operation	Serve		Remarks
		master		
6-24	Configure fs resource group	•	pcs resource group add fs_mount_group fs_exastro fs_mariadb	
6-25	Configure vip and httpd resource groups	•	pcs resource group add exastro virtual_ip httpd	
6-26	Configure ITA service (ky_*) resource groups	•	pcs resource group add ky_services ky_activedirectory_roleuser_replication-workflow ky_ansible_execute-workflow ky_ansible_towermasterSync-workflow ky_bulk_excel-workflow ky_change_col_to_row ky_credbmenuanalysis-workflow ky_create_er-workflow ky_hostgroup_check_loop ky_rostgroup_split ky_legacy_role_valautostup-workflow ky_legacy_role_varsautolistup-workflow ky_legacy_valautostup-workflow ky_legacy_valautostup-workflow ky_legacy_varsautolistup-workflow ky_pioneer_valautostup-workflow ky_pioneer_valautostup-workflow ky_std_checkcondition-linklist ky_std_synchronize-Conductor ky_std_synchronize-regularly2 ky_std_synchronize-regularly ky_std_synchronize-symphony	
	Assign the added DRBD resources to Master/Slave.  Start up 2 nodes and specify one of the nodes to be the master node (DRBD primary node)	•	pcs resource promotable drbd_r0 master-max=1 master-node-max=1 clone-max=2 clone-node-max=1 notifv=true pcs resource promotable drbd_r1 master-max=1 master-node-max=1 clone-max=2 clone-node-max=1 notifv=true	
6-28	Add constraint so fs resource and ms_drbd start on the same node	•	pcs constraint colocation add fs_exastro with drbd_r0-clone INFINITY with-rsc-role=Master pcs constraint colocation add fs_mariadb with drbd_r1-clone INFINITY with-rsc-role=Master	
	Add constraint so the resources are run in the following order: Resource ms_drbd → fs_exastro	•	pcs constraint order promote drbd_r0-clone then start fs_exastro pcs constraint order promote drbd_r1-clone then start fs_mariadb	
6-30	Specify all created resources and then the resource group start/stop order.	•	pcs constraint order set fs_mount_group mariadb ky_services exastro	
6-31	Specify a constraint that forces all set resources to be started on the same node.	•	pcs constraint colocation set fs_mount_group mariadb ky_services exastro	
6-32	Reload resources	•	pcs resource cleanup	
6-33	Reload settings file	•	systematl daemon-reload	
6-34	Start HA program services	•	systemctl enable corosync systemctl enable pacemaker systemctl start corosync systemctl start pacemaker	

User/Connection requirements

Nº	Operation	master 60 slave 61	Contents (※When "Master" and "Slave" server configuration is required, please configure them in paralell)	Remarks
	Check that the Cluster is running properly		pcs status  (Display example)  2 nodes configured —Check that this is displayed  32 resource instances configured  Online: [ita-ha-sv01 ita-ha-sv02] —Check that both Master and Slave are online  Active resources:     mariadb (systemd:mariadb): Started ita-ha-sv01 —Check that "master" is "Started"  Resource Group: fs_mount_group     fs_mysql (ocf::heartbeat:Filesystem): Started ita-ha-sv01     fs_httpd (ocf::heartbeat:Filesystem): Started ita-ha-sv01  Resource Group: ky_services     ky_xxx (systemd:ky_xxx): Started ita-ha-sv01  Resource Group: exastro     virtual_ip (ocf::heartbeat:IPaddr2): Started ita-ha-sv01     httpd (systemd:httpd): Started ita-ha-sv01  Started ita-ha-sv01  Started ita-ha-sv01	Install the commands together
6-36	Check ITA Connection		Access the login screen with the URL below https://10.1.1.10	Install the commands together
作業終了				