Check the /etc/hosts if FQDN is already maintain

root@dcplnx2178	8396-BHP-sinzue05:~ # getent	hosts   grep bhp
192.168.38.113	zpaapbhp1100 zpaapbhp1100c4	sgisgsapbhp11.zuelligpharma.interpharma.local
192.168.38.114	zpaapbhp1200 zpaapbhp1200c4	sgisgsapbhp12.zuelligpharma.interpharma.local
192.168.38.115	zpaapbhp1300 zpaapbhp1300c4	sgisgsapbhp13.zuelligpharma.interpharma.local
192.168.38.116	zpaapbhp1400 zpaapbhp1400c4	sgisgsapbhp14.zuelligpharma.interpharma.local
164.22.0.161	zpaapbhp1100s4	
164.22.0.164	zpaapbhp1400s4	
192.168.38.113	zpaapbhp1100 zpaapbhp1100c4	
164.22.0.163	zpaapbhp1300s4	
192.168.38.116	zpaapbhp1400 zpaapbhp1400c4	
164.22.0.160	zpaacbhp5700s4	
192.168.38.115	zpaapbhp1300 zpaapbhp1300c4	
164.22.0.162	zpaapbhp1200s4	
192.168.38.114	zpaapbhp1200 zpaapbhp1200c4	
192.168.38.112	zpaacbhp5700 zpaacbhp5700c4	
raated calay2170	9206 PUP. 0107/1005 #	

Check if Kerberos 5 is already configured on that host

rootedcpin	x217883	96-BHP-9	sinzue	205:~	#	cd /et	tc/
root@dcpln:	x217883	96-BHP-9	sinzue	205:/	etc	# ls	-ltr *krb5*
- rw-rr	1 root	root	676	Jun	29	13:54	krb5.conf_20160607
-rw-rr	1 root	root	908	Jul	7	10:57	krb5.conf
- FW- F	1 root	sapsys	3027	Aug	16	15:04	krb5.keytab
root@dcpln:	x217883	96 BHP	sinzue	205:/	etc		
rootedcpln	x217883	96 BHP -	sinzue	905:/	etc	#	

## Copy the keytab to /etc/Keytabs

<pre>root@dcplnx21788396-BHP-sinzue05:~ # cd /usr/sap/globalscratch/mkhalid/ZP_Keytab/</pre>
root@dcplnx21788396-BHP-sinzue05:/usr/sap/globalscratch/mkhalid/ZP_Keytab # is -ltr
total 128
-rwxrwxrwx 1 root root 123 Aug 16 14:45 bipadmv12.keytab
-rwxrwxrwx 1 root root 123 Aug 16 14:45 crpadmv12.keytab
-rwxrwxrwx 1 root root 123 Aug 16 14:45 ecpadmv12.keytab
-rwxrwxrwx 1 root root 123 Aug 16 14:45 ectadmv12.keytab
-rwxrwxrwx 1 root root 123 Aug 16 14:45 pcpadmv12.keytab
-rwxrwxrwx 1 root root 123 Aug 16 14:45 pipadmv14.keytab
-rwxrwxrwx 1 root root 123 Aug 16 14:45 scpadmv12.keytab
-rwxrwxrwx 1 root root 123 Aug 16 14:45 srpadmv12.keytab
-rwxrwxrwx 1 root root 123 Aug 16 14:45 wmladmvl2.keytab
-rwxrwxrwx 1 root root 123 Aug 16 14:45 wm2admv14.keytab
-rwxrwxrwx 1 root root 123 Aug 16 14:45 wm3admv12.keytab
-rwxrwxrwx 1 root root 123 Aug 16 14:45 wm4admv14.keytab
-rwxrwxrwx 1 root root 123 Aug 16 14:45 wm5admv12.keytab
-rwxrwxrwx 1 root root 123 Aug 16 14:45 wm6admv15.keytab
-rwxrwxrwx 1 root root 123 Aug 16 14:45 wm7admv15.keytab
drwxrwxr-x 2 root root 1024 Aug 16 14:47 SAP HANA servers keytab
root@dcplnx21788396-BHP-sinzue05:/usr/sap/globalscratch/mkhalid/ZP Keytab # cd SAP HANA servers ke
root@dcplnx21788396-BHP-sinzue05:/usr/sap/globalscratch/mkhalid/ZP Keytab/SAP HANA servers keytab
total 48
-nwxnwxnwx 1 root root 123 Aug 16 14:47 bcp56admv1.keytab
-rwxrwxrwx 1 root root 123 Aug 16 14:47 bhplladmvl.keytab
-nxxnxxnxx 1 root root 123 Aug 16 14:47 bhp12admv1.keytab
-nvxnvxnvx 1 root root 123 Aug 16 14:47 bhp13admv1.kevtab
-nvxnvxnvx 1 root root 123 Aug 16 14:47 bhp14admv1.kevtab
-nyxnyxnyx 1 root root 123 Aug 16 14:47 rsp08admv1.kevtab
root@dcplnx21788396-BHP-sinzue05:/usr/sap/globalscratch/mkhalid/ZP Kevtab/SAP HANA servers kevtab
root@dcplnx21788396-BHP-sinzue05:/usr/sap/globalscratch/mkhalid/ZP Kevtab/SAP HANA servers kevtab

List the keytab

root@dcplnx21788396-BHP-sinzue05:/usr/sap/globalscratch/mkhalid/ZP_Keytab/SAP_HANA_servers_keytab #
root@dcplnx21788396-BHP-sinzue05:/etc/Keytabs #
root@dcplnx21788396-BHP-sinzue05:/etc/Keytabs # ls -ltr
total 144
rw-r1 root root 123 Jun 8 15:10 BIXadmv1 kevtab
Derer 1 root root 123 Jun 8 15:11 (RXadmy) keytab
Durrent i root root 123 Jun 8 15:11 ECVadmv1 kavtab
The set of
- With the set 125 June 0 15:11 Produmiti. Reytau
-rw-rr 1 root root 123 Jun 8 15:12 Pixadmv1.keytab
-rw-rr 1 root root 123 Jun 8 15:12 SCXadmv1.Keytab
-rw-rr 1 root root 123 Jun 8 15:12 SRXadmv1.keytab
-rw-rr 1 root root 123 Jun 8 15:12 WX1admv1.keytab
-rw-rr 1 root root 123 Jun 8 15:12 WX2admv1.keytab
-rw-rr 1 root root 123 Jun 8 15:12 WX3admv1.kevtab
-rw-rr 1 root root 123 Jun 8 15:12 WX4admv1.kevtab
rw-rr 1 root root 123 Jun 8 15:13 WX5admv1.kevtab
- DW-rr 1 root root 123 Jun 8 15:13 WX6admv1 keytab
Derere 1 root root 123 Jun 8 15:13 WZadmyl keytab
nu r l root root 123 Juli 0 13.13 MA/duily1.Keytab
-rw-rr 1 root root 123 Aug 11 14:43 Crpaumviz.key(ab
JIWXF-XF-X 2 FOOT FOOT 1024 AUG 11 15:39 PHD Keytabs
-rwxrwxrwx 1 root root 123 Aug 16 14:47 rsp08admv1.keytab
-rwxrwxrwx 1 root root 123 Aug 16 14:47 <mark>bhplladmvl.keytab</mark>
root@dcplnx21788396-BHP-sinzue05:/etc/Keytabs #

Import the keytab

slot KVNO Principal . . . 3 SAPServbhpll/sgisgsapbhpll.zuelligpharma.interpharma.local@ZUELLIGPHARMA.INTERPHARMA.LOCA 1 ktutil: ktutil: wkt /etc/krb5.keytab ktutil: q
root@dcplnx21788396-BHP-sinzue05:/etc/Keytabs #

Validate the keytab

HP-sinzue05:/etc/Keytabs # HP-sinzue05:/etc/Keytabs # kinit -V -k SAPServbhpll/sgisgsapbhpll.zuelligpharma edcplnx2178 Authenticated to Kerberos v5 396-BHP-sinzue05:/etc/Keytabs # 396-BHP-sinzue05:/etc/Keytabs # su - bhpadm root@dcplnx21788 root@dcplnx21788 dcplnx21788396:bhpadm 53> kinit -V -k SAPServbhpll/sgisgsapbhpll.zuelligpharma.interpharma.local@ZUE Authenticated to Kerberos v5 dcplnx21788396:bhpadm 54>

Lin	40	1. Modify krb5.conf with the proper config.
UX	0	a. Modif the following lines with the correct info:
-		- Default_realm
0/		<ul> <li>Everything in the realms category</li> </ul>
S		- Kdc
		- Admin_server
		- Default_domain
		- Domain realm
		- All log file locations to /var/log/krb5 (create a linux
		folder)

		<pre>[logging] default = FILE:/var/log/krb5libs.log kdc = FILE:/var/log/krb5kdc.log admin server = FILE:/var/log/kadmind_log</pre>
		[libdefaults]
		dns_lookup_realm = false dns_lookup_kdc = false tiskot lifetime = 24b
		<pre>ticket_lifetime = 24h forwardable = yes</pre>
		<pre>[realms] EXAMPLE.COM = {   kdc = kerberos.example.com:88   admin_server = kerberos.example.com:749   default_domain = example.com }</pre>
		<pre>[domain_realm] .example.com = EXAMPLE.COM example.com = EXAMPLE.COM</pre>
		"/etc/krb5.conf" 31L, 608C
		<pre>[logging] default = FILE:/var/log/krb5/krb5libs.log</pre>
		kdc = FILE:/var/log/krb5/krb5kdc.log
		admin_server = FILE:/var/log/krb5/kadmind.log
		[libdefaults] default_realm = ZUFLLIGPHARMA_INTERPHARMA_LOCAL
		dns_lookup_realm = false
		<pre>dns_lookup_kdc = false ticket lifetime = 24h</pre>
		forwardable = yes
		<pre>[realms] ZUELLIGPHARMA.INTERPHARMA.LOCAL = {</pre>
		<pre>kdc = phisgpdc02.zuelligpharma.interpharma.local admin server = phisgpdc01 interpharma_local</pre>
		<pre>default_domain = zuelligpharma.interpharma.local }</pre>
		[domain realm]
		.zuelligpharma.interpharma.local = ZUELLIGPHARMA.INTERPH zuelligphrama.interpharma.local = ZUELLIGPHARMA.INTERPH
		<pre>[appdefaults] "/etc/krb5.conf" 30L, 788C written</pre>
		b. Ensure the proper authorizations are set for the logfile location ie /var/log/krb5
		mkdir /var/log/krb5 chmod 777 /var/log/krb5
Lin	50	1. Key import to linux server
UX	0	a. Copy the keytab file from the AD server to the linux server
- O/		Run ktutil then execute the following commands under as per
S		screenshot below.

		<pre>[root@saptest ~]# ktutil ktutil: rkt /sap-install/maj.keytab ktutil: l -e slot KVNO Principal</pre>
Lin UX - OS	60 0	<ol> <li>Initialize Kerberos (TGT) Ticket granting ticket         <ul> <li>Run the kinit command</li> <li>Kinit -V -k SAPService<sid>/<fqdn linux="" of="" server="" the="">@Full Domain</fqdn></sid></li> <li>[root@saptest ~]# kinit -V -k SAPService/saptest.zuelligphar</li> <li>1@ZUELLIGPHARMA.INTERPHARMA.LOCAL</li> <li>Authenticated to Kerberos v5</li> <li>Ensure the ownership and permissions of the /etc/krb5.keytab</li> <li>chmod 640 /etc/krb5.keytab</li> <li>c. To further check change user to <sid>adm run the kinit command.</sid></li> <li>saptest:majadm 51&gt; kinit -V -k SAPService/saptest.zuelligphar</li> <li>al@ZUELLIGPHARMA.INTERPHARMA.LOCAL</li> </ul> </li> </ol>
Lin ux - O/ S	70 0	<ol> <li>Create Crontab entries for kerberos ticket renewal         <ul> <li>Run crontab in linux to create a batch-type scheduling of the ticket renewal</li> <li>Crontab -e</li> <li>01 0,6,12,18 * * /usr/Kerberos/bin/kinit -k</li> <li>SAPService<sid>/saptest.zuelligpharma.interpharma.local</sid></li> <li>[root@saptest bin]# crontab -1</li> <li>01 0,6,12,18 * * /usr/kerberos/bin/kinit -k</li> </ul> </li> </ol>
SA P	80 0	<ol> <li>Configure SAP for SSO         <ul> <li>Perform the following profile parameter changes in tcode Rz10 snc/gssapi_lib = /usr/lib64/libgssapi_krb5.so snc/identity/as = p/krb5:SAPService<sid>/saptest.zuelligpharma.interpharma.local@Z UELLIGPHARMA.INTERPHARMA.LOCAL snc/enable = 1 snc/accept_insecure_cpic = 1 snc/accept/insecure_rfc = 1 snc/accept_insecure_gui = 1 snc/accept_insecure_r3int_rfc = 1 snc/data_protection/min = 1 snc/data_protection/max = 3 snc/data_protection/use = 3 snc/data_protection/use = 3 snc/permit_insecure_start = 1</sid></li> </ul> </li> </ol>

# SSO parameters
<pre>snc/gssapi_lib = /usr/lib64/libgssapi_krb5.so</pre>
<pre>snc/identity/as = p/krb5:SAPService/saptest.zuelligpharma.interpharma.</pre>
LIGPHARMA.INTERPHARMA.LOCAL
<pre>snc/enable = 1</pre>
<pre>snc/accept insecure cpic = 1</pre>
<pre>snc/accept/insecure rfc = 1</pre>
<pre>snc/accept insecure gui = 1</pre>
<pre>snc/accept_insecure_r3int_rfc = 1</pre>
<pre>snc/data protection/min = 1</pre>
<pre>snc/data protection/max = 3</pre>
<pre>snc/data protection/use = 3</pre>
<pre>snc/permit_insecure_start = 1</pre>
2. Restart SAP system for the profile parameter changes to take effect.