IMPLEMENTATION

Startsap r3

Startsap all

Startsap

1.Startup profile(startdb,sapcpe,msg\_server,enqserver,dispatcher,workprocesses,rslgcoll,

rslgsend, igs) home directory of sidadm,work directory

2.Default profile......

3.Instance Profile..(number of work processes,memory allocation,buffers and security parameters).....work directory

IMPLEMENTATION ACTIVITIES:

1.HARDWARE SIZING

2.INSTALLATION

3.CONFIGURATION

4.KERNEL PATCH UPDATE

5.KERNEL VERSION UPDATE

6.SPAM/SAINT TOOL UPDATE(spam)

7.SUPPORT PACKS DEPLOYING(spam)

8.ADD-ON DEPLOYING(saint)

9.LIBRARY CONFIGURATION(sr13)

10.LANGUAGE DEPLOYING(i18n,smlt)

11.CLIENT COPY

 a).LOCAL CLIENT COPY(sccl)

 b).REMOTE CLIENT COPY(scc9)

 c).CLIENT EXPORT/IMPORT(scc8,scc7)

12.STMS(stms)

 a).2-SYSTEM LANDSCAPE

 b).3-SYSTEM LANDSCAPE

 c).MULTI SYSTEM LANDSCAPE

13.SAP Router

14.SAP satellite Systems

15.Admin,reporting and Monitoring

 2.INSTALLATION

Installation of SAP Products:(ERP,CRM,SRM,SCM,Solution Manager,XI,EP,MI,DI.....)

1.Download the Software Provisioning Manager Tool Specific to the Operating System.

SWPM is Software Provisioning Manager 1.0 supports the following system provisioning scenarios for SAP systems based on SAP NetWeaver:

Installation of new systems and standalone engines

System Copy

System Rename

Dual-Stack Split

Required Software:

Software Provisioning Manager

SWPM Kernel

product based Export CD/DVD's

SAP Cryptography(if it is java Engine)

Add-ons or Standalone Engine Software

Database Software along with DB Client Software(Integrated in the SAP Installation)

No Separate DB Installation is required for HANA,SYBASE and MaxDB

Note: Java is not Required as SAPJVM is in built in SWPM

1.Navigate to the SWPM

Use sapinst(double click on Windows)

use ./sapinst on Unix based Operating Systems.

Select the Product,Database(Most of the Installations are unicode and on 64 bit machines)

Earlier systems are opted to install with Non-Unicode version which can be migrated to Unicode using SWPM.(Pre and Post Steps are required for the Migration especially for BW Systems)

Select the type of Installation:

1.Central System(Where Database Server,Central Services Instance(Message Server and Enque Server) and Primary Application Server) are installed together in one Host.

i.e ASCS00 and DVEBGMS01 are installed on the same host for ABAP Engine

i.e SCS00 and JS(C)01 are installed on the same host for JAVA Engine

D01,D02,D03 are referred as Additional Application Servers.

Instance Concept is replaced with Application Server.

2.Distributed System: if Database Server is Installed Separately on a separate host other then Primary Application Server Host then it is referred as Distributed System Installation.Generally if both of them are installed on the same host the PAS Consumes around 70% of resources and even more leaving small amount of resources to Database.

if the User base is more then 250 and above then it is recommended to separate the database,so that database can have dedicated resources.

3.High Availability:it is installed on a MS Cluster or IBM HA or Linux HA to Provide System Availability during Hardware Failures and Balance the load.

Two Physical machines are installed and clustered for failover/load balancing pointing to a Storage Area Network.

Cluster setup will be performed by the hardware Vendors.

Select typical to install the system with default values.

Select custom to customize the filesystem,ports,passwords,datafile location,r3load etc

Provide SID(System Identifier) a Unique Identifier in the landscape.

Provide Master Password for OS,DB and SAP Users

Provide Path for global mount,exe and trans

Provide Software Location such as Database Software,DB Client Software,Kernel Software, Product Specific Exports,SAP Cryptography Software if required,SLD Connectivity details if required(select NO SLD) and review the inputs before continuing the Installation.

Installation Mechanism:

1.setenv

2.Create users

3.Create groups

4.Assign groups to users

5.Create and run services

6.Extract the software

7.Create folders,setup file system and set permission(/sapmnt,/usr/sap/SID, /sapmnt/SID/trans

8.Install Database Software

9.Install Database Client

10.Import the Data into database from SAP Export Software

11.Setup the SAP Instance(Dispatcher,Work Processes,IGS and Connectivity to Database

12.The services are setup with designated Ports

3200----ABAP Dispatcher Port

3300----ABAP Gateway

3600----ABAP Message Server(External)

3900----ABAP Message Server(Internal)

4700----ABAP Security Dispatcher Port

4800----ABAP Security Gateway Port

50000---JAVA Dispatcher Port

50013---ABAP and JAVA Management Console Port

13.The Instance is Started

14.The Post Installation ABAP Reports Runs using user DDIC

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Installation Logs and Files Used (/tmp/sapinst\_instdir;C:/program files/sapinst\_instdir

1.sap installation logsnm are displayed through sapinst.log and sapinst\_dev.log

2.dbsize is specified by dbsize.xml

3.The installation inputs are provided stored in keydb.xml

4.The Installation process is stored in control.xml(it is used to restart the installation from the point where it is stopped)

5.The Command files of the installation are stored with extension \*.cmd

6.The Structure of the tables is stored in the files with extension \*.str

7.The Database Templates to define the Data Dictionary Objects are stored in DDLORA(DB).TPL

8.The Task Files that drive the dataloads are stored with extension \*.TSK

9.The Current Loaded Task Files are displayed with extension \*.TSK.BCK

10.The Data that need to be loaded comes with extension \*.0001,\*.0002 etc(SAP EXPORTS)

11.The R3load Package Logs are stored with extension \*.log (sapddic.log,sapappl0,1,2.log)

Review the above logs with current date and time to root cause the installation errors.

Most of the errors are addressed in the prerequsites,if any of the prerequisite fails it turns into error.

Some of the Actions required to continue the aborted installations

R3load and Kernel May need to be updated

Table Entries may need to be deleted or inserted or updated

sapinst need to be updated or a higher version of swpm is recommended by SAP

database patch may be required

os patch may be required

Some times changes in the keydb.xml,control.xml as recommended by SAP(to byepass some of the steps)

Even if the installation is continued with out fixing the above issues,these errors are resulted in SICK.

Starting and Stopping of SAP System:

Login as <SID>ADM

use command 'stopsap'

Stopping sequence

1.Application Servers

2.Central Instance or Primary Application Server

3.Database Server

Starting Sequence:

1.Database Server

2.Central Instance or Primary Application Server

3.Application Servers

what happens when the SAP System is started?

1. The Startup Profile is evaluated to start the System. it identifies the Hostname,Instance Number,database etc....

database is started by using command strdbs.cmd and writes logs in startdb.log and v9start.log,stderr0

sapcpe sapcopy executables is started to copy the executables from the global exe to instance exe directory and write the logs into sapcpe.log

Default Profile provides the database credentials and default parameters to start the instance.

Message Server Details are fecthed from Default Profile and it is started by using executbale msg\_server.exe and writes the logs into dev\_ms.log

Dispatcher Details are fetched from Instance specific Profile and it is started by using

executable disp+work.exe and writes the logs into dev\_disp.log

work processes are started based on Instance specific Profile and they are started by using executable disp+work.exe and writes the logs into dev\_w0,w1,w2,w3,wn-1.logs

Internet Graphics Server is started by using executable igswd.exe and writes logs into

/usr/sap/SID/DVEBMGS00/work directory.

stopsap r3 stops only instance

stopsap stops the entire system and database

POST INSTALLATION STEPS:

SICK

SE06

Su01

STMS

SM36

DB13

SALE

RZ10

SR13

SFW5

SCPR20

SCC4

SCCL

SCC9

SCC8

SCC7

SGEN

--------------------4.KERNEL PATCH UPDATE ----------------------

Know your kernel version using GUI SM51-->Release notes

Know your kernel version at OS level Login to <sid>adm-->disp+work

1.Download the software from the service marketplace & keep it in a folder.

 SAPEXE<version>.SAR

 SAPEXEDB<version>.SAR

2.Provide the permissions & ownership to that folder

#chmod -R 775 kernelpatch310

#chown -R <sid>adm:sapsys kernelpatch310

3.Now login to <sid>adm & UNCAR the 2 .SAR files

 sidadm>SAPCAR -xvf SAPEXE<version>.SAR

 sidadm>SAPCAR -xvf SAPEXEDB<version>.SAR

4.Now you get the new set of executables which are used to update kernel patch.

5.KERNEL path on linux:/usr/sap/SID/SYS/exe/run

6.Down the services(sap),database shut down maybe or maynot.

 Also take backup of "run" directory incase of revertback.

7.Now copy the new set of executables to the "run" directory.

kernelpatch>cp -pvr \* /usr/sap/SID/SYS/exe/run

8.After copying the kernel patch executables to "run" directory,

 Start the services and check kernlel version using the command at OS level.

sidadm>disp+work

GUI level:SM51-->release notes.

9.provide "brtools" permissions using command in root user.

"./saproot.sh <SID>".

10.start the services.

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Kernel patch set update:

Overwrite the executables in /sapmnt/SID/exe with downloaded exe from sap market place

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KERNAL PATCHUPGRADE:

root # su - sidadm

sidadm >startsap r3

sidadm >disp+work

 kernel release 700

 kernal make variant 700 -rel

 patch number 111

 source id 0.111

\*\*\*patch upgradeb stopsap r3\*\*\*\*\*\*\*

root# cd /oracle

root# ll

root# chmod -R 775 kernel patch310

root# chown -R sidadm:sapsys kernel310

root# cd /kernel patch310

root# ll

 2 SARfile is there uncar the SARfile.

root# su - sidadm

sidadm > cd /oracle/kernel patch310

sidadm >SAPCAR -xvf xxxx.SAR

sidadm >SAPCAR -xvf xxxx.SAR

then go to

sidadm > cd /sapmnt/sid/exe

sidadm > ll

sidadm > cd /sapmnt/sid

sidadm > mkdir old\_kernel310

sidadm > cd /sdapmnt/sid/exe/

sidadm >cp -pr\* /sapmnt/sid/old\_kernel310/

sidadm >disp+work

 kernel release 700

 kernal make variant 700 -rel

 patch number 310

 source id 0.310

sidadm >exit

root# cd /sapmnt/sid/exe

root# ./saproot.sh SID

--------------------5.KERNEL VERSION UPDATE ----------------------

1.Download the following SAR files from the SMP & keep it in a folder.eg:720kernel

 SAPEXE<version>.SAR

 SAPEXEDB<version>.SAR

 igsexe<version>.SAR

 igshelper<version>.SAR

 DBATL<version>.SAR(db2 and oracle)

 SAPHOSTAGENT<version>.SAR

2.Provide permissions & ownership to the folder(which contain .SAR files)

 #chmod -R 775 720kernel

 #chown -R <sid>adm:sapsys 720kernel

3.Login <sid>adm & UNCAR the 5 .SAR files except SAPHOSTAGENT<version>.SAR.

 sidadm>SAPCAR -xvf SAPEXE<version>.SAR

 sidadm>SAPCAR -xvf SAPEXEDB<version>.SAR

 sidadm>SAPCAR -xvf igsexe<version>.SAR

 sidadm>SAPCAR -xvf igshelper<version>.SAR

 sidadm>SAPCAR -xvf DBATL<version>.SAR

4.Take a backup of existing kernel nothing but "run" directory.

5.Down the services.

6.Delete the executable in "run" directory.

7.Now copy the 720executables to the "run" directory.

 720kernel>cp -pvr /usr/sap/SID/SYS/exe/run

8.Provide permissions for "brtools",icmbind by using following command.

run#./saproot.sh SID

9.Navigate to instance specific exe directory

 i.e. /usr/sap/SID/DVEBMGS00/exe

10.Take a backup of instance specific exeutables i.e "exe"

11.Delete the content in "exe" directory.

 exe#rm -rf \*

12.Now login to <sid>adm and navigate to "work" directory.

sidadm>cd /usr/sap/SID/DEVEBMGS00/work

work>sapcpe pf=/usr/sap/SID/SYS/profile/SID\_DVEBMGS00\_hostname

13.Check whether the exe are affect in /usr/sap/SID/DEVEBMGS00/work.

14.INSTALLING SAPHOSTAGENT

Navigate to "tmp" directory & create a dir. to copy SAPHOSTAGENT<version>.SAR

 #cd /tmp

 #mkdir host

15. Copy the SAPHOSTAGENT<version>.SAR file to "host" folder.

16.For the UNCARing purpose give the <sid>adm:sapsys ownership

 tmp#chmod -R 775 host

 tmp#chown -R <sid>adm:sapsys host

17.Login to <sid>adm & UNCAR the SAPHOSTAGENT<version>.SAR file

 host>SAPCAR -xvf SAPHOSTAGENT<version>.SAR

18.After UNCARing remove the "sidadm:sapsys" permissions to host by providing the "root:root" ownership.(only SAPHOSTAGENTxxxxx.SAR file)

19.Now install "SAPHOSTAGENT" in the root user

 by using the following command.

 host#./saphostexec -install

20.Start the services. & check the kernel version using "disp+work".

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Kernel Upgrade:

Delete the executables from /sapmnt/SID/exe,along with all the instance executables

 /usr/sap/SID/DVEBMGS00/exe

 /usr/sap/SID/D01/exe

 /usr/sap/SID/D02/exe

 /usr/sap/SID/D03/exe

Copy the Downloaded executables into the above Folders.

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During Update the current executables are updated with out any new names but just with higher version.Mostly during update

entire kernel executables are not patched.

Example: DW kit,tp,R3trans,SAPCAR,R3load,R3ta,R3szchk,dbatools are updated based on requirement.

During upgrade the entire kernel is updated with new versions and naming conventions where old exe may conflict that is why kernel

is deleted and replaced with new set of executables.

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Note: Kernel(DCK) and SAP GUI are Downward compatible

kernel update/upgrade/corrections are reversible

KERNEL VERSION UPGRADE:(700-720)

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KERNAL VERSION UPGRADE:

root # su - sidadm

sidadm >startsap r3

sidadm >disp+work

 kernel release 700

 kernal make variant 700 -rel

 patch number 310

 source id 0.310

\*\*\*patch upgrade stopsap r3\*\*\*\*\*\*\*

root# cd /oracle/IMPL/720kernel (sofware path)

root# ll

root# 6 file

root# chmod -R 775 \*

root# chown -R sidadm:sapsys \*

root# su - sidadm

sidadm > cd /oracle/IMPL/720kernel

sidadm > ll

sidadm > 6 file UNCAR the 5 file only

 \*\* DONT UNCAR saphost \*\*

sidadm > SAPCAR -xvf DBxxxxxxxx.SAR

sidadm > SAPCAR -xvf igsexexxxx.SAR

sidadm > SAPCAR -xvf igshelpxxx.SAR

sidadm > SAPCAR -xvf SAPEXExxxx.SAR

sidadm > SAPCAR -xvf SAPEXEDBxx.SAR

sidadm > cd /sapmnt/SID/

sidadm > mkdir old\_kernel700

sidadm > cd /sdapmnt/sid/exe/

sidadm > ll

sidadm > cp -pr\* /sapmnt/SID/old\_kernel700

sidadm > pwd

sidadm > cd /sdapmnt/sid/exe/

sidadm > rm -rf\*

sidadm > cd /oracle/IMPL/720kernel

sidadm > cp -pr\* /sapmnt/SID/exe

sidadm > cd /usr/SAP/SID/DEVBMGS00/work

 run this command \*\*\*

sidadm > sapcpe pf= /usr/sap/SID/sys/profile/SID\_xx\_xxx

sidadm > cd tmp/

sidadm > mkdir host

sidadm > cd /oracle/IMPL/720kernel

sidadm > ll

sidadm > cp -pr SAPhost.xxx.SAR /tmp/host/

sidadm > cd /tmp/host/

sidadm > SAPCAR -xvf saphostxxx.SAR

sidadm > exit

 root# cd /tmp/host

 root# ./saphostexe -install

sidadm > su - sidadm

sidadm > disk+work

 kernel release 720

 database 700

 710

 720

 730

 patch number 310

 source id 0.310

------------------6.SPAM/SAINT TOOL UPDATE:(SPAM)---------------------------

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{SUPPORT PACKS(SPAM)-->TO APPLY SUPPORT PACKS

ADD-ONS(SAINT)-->TO APPLY ADD-ONS}

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1.Download the .SAR file for the SPAM/SAINT TOOL UPDATE from the service market place.

 eg:KD70028.SAR,KD70042.SAR,KD70052.SAR

2.Copy the .SAR file to the "trans" directory.(/usr/sap/trans)

3.Provide permissions & Ownership to the .SAR file.

 #chmod -R 775 kd70028.SAR

 #chown -R <sid>adm:sapsys kd70028.SAR

4.Login to <sid>adm & navigate to /usr/sap/trans.

5.UNCAR the .SAR file using executable "SAPCAR" as shown below.

>SAPCAR -xvf kd70028.SAR

6.After UNCAR the .SAR file we get the ".ATT" & ".PAT" files to "EPS/in"(/usr/sap/trans/EPS/in)

7.Login to "000" client & Using user like "DDIC".(create a user similar to DDIC)

8.SPAM can be applied with out sequence and could not be reverted

9.SPAM/SAINT can upload the patches using either front end or Application Server.

if the patch size is more then 5mb then Use Application Server.copy and uncar the file into /usr/sap/trans directory.

10.Use Option Load from Application Server

11.Use Option Import SPAM/SAINT Update-->Schedule to run in the background mode.

12.SPAM/SAINT Update may be terminated which can be repeated again until it is completed.

SPAM UPDATE:

 root # cd /oracle/IMPL/spam

 root # ll

 root # cp -pr KDxxxxxxx.SAR /usr/sap/trans

 root # cd /usr/sap/trans

 root # chmod -R 775 KDxxxxxxx.SAR

 root # chown -R sidadm:sapsys KDxxxxxxx.SAR

 root # su - sidadm

sidadm > cd /usr/sap/trans

sidadm > SAPCAR -xvf KDxxxxxxx.SAR

sidadm> cd /EPS/in

sidadm> ll

OPEN GUI LOGON:

STEP1: Excute SPAM

STEP1: support package

 -->> load package --> from application server

 -->> click --> yes

STEP3: Import sapm/saint update

 -->> click -->green ---> ok

Install successfully.

ERROR:

1.If any error close GUI and open

2.Go to spam (or) support package -->Import queue.

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PREREQUISITES for SP,ADD-ONs,LANGUAGES:

1.Apply in 000client & user like ddic.

2.STMS should be configured.

3.Schedule in BTC mode.

4.Ensure that min 2BTC process available (SM50).

5.Follow the Support pack Number sequence(1,2,3,4...) while applying support packs.

 (No jumping is allowed & Support packs cannot be revert back)

6.Follow the Software component sequence(BASIS,ABAP,ST-PI...) while applying support packs.

7.Follow the Landscape sequence(DEV,QAS,PRD)

8.Read the composite notes 822379(Known problems with Support Packages),822380(Problems with add-on installation/upgrade)

9.Schedule RDDIMPDP/RDDNEWPP

10.Check whether space available in db(db02)

11.Check whether space available in "trans" directory.

12.check trans directory permissions

---------------------------7.SUPPORT PACKS----------------------------------------------

(NOTES-->Supportpacks-->Support Stack-->Support Release(SR1,SR2,SR3..)-->EHPs)

1.Download the .SAR files(eg:KB70010,KA70010) from the Service market place.

2.Copy the .SAR files to "/usr/sap/trans"

3.Provide permissions & Ownership to the .SAR file.

 #chmod -R 775 kB70028.SAR

 #chown -R <sid>adm:sapsys kB70028.SAR

4.Login to <sid>adm & navigate to /usr/sap/trans.

5.UNCAR the .SAR file using executable "SAPCAR" as shown below.

>SAPCAR -xvf kB70028.SAR

6.After UNCAR the .SAR file we get the ".ATT" & ".PAT" files to "EPS/in"(/usr/sap/trans/EPS/in)

7.Login to "000" client & Using user like "DDIC".(create a user similar to DDIC)

8.Execute the t-code "spam".

9.Menu->Support package-->Load package-->From the Application server(If the package size<5MB then Load package-->From the Frontend)

10.Click on "Display/Define" to specify the Import Queue.

11.After define the Queue ,Import the Queue as Menu-->Support pack-->Import Queue.

12.You can Check the SP status using Se12 & table "pat01" .

13.After Import complete the SPAM status should be "GREEN".

support package:

 root # cd /oracle/IMPL/patch

 root # ll

 root # cd sap\_basis

 root # ll

 root # cp -pr KBxxxxxxx.SAR /usr/sap/trans

 root # cd /usr/sap/trans

 root # chmod -R 775 KBxxxxxxx.SAR

 root # chown -R sidadm:sapsys KDxxxxxxx.SAR

 root # su - sidadm

sidadm > cd /usr/sap/trans

sidadm > SAPCAR -xvf KBxxxxxxx.SAR

sidadm> cd /EPS/in

sidadm> ll

OPEN GUI LOGON:

STEP1: Excute SPAM

STEP1: support package

 -->> load package --> from application server

 -->> click --> yes --->back

STEP3: click DEFINE/define

 -->> select component --> ok --> click 'yes' --> ok

STEP4: Import queue (status yellow)

 -->> click truk (OR) support package --->Import queue

STEP5: Start Condition

 -->> start background immediately -->ok --->ok

STEP6: support package

 -->>Confirm

 Install successfully.

OS LEVEL CHECK:

root # cd /usr/sap/trans

root # ll

root # cd tmp/

root # ls -lrt

----------------------------8.ADD-ON INSTALL(SAINT)--------------------------------

1.Download the .SAR files(eg:KINBC9A.SAR-PI\_BASIS) from the Service market place.

2.Copy the .SAR files to "/usr/sap/trans"

3.Provide permissions & Ownership to the .SAR file.

 #chmod -R 775 KINBC9A.SAR

 #chown -R <sid>adm:sapsys KINBC9A.SAR

4.Login to <sid>adm & navigate to /usr/sap/trans.

5.UNCAR the .SAR file using executable "SAPCAR" as shown below.

>SAPCAR -xvf KINBC9A.SAR

6.After UNCAR the .SAR file we get the ".ATT" & ".PAT" files to "EPS/in"(/usr/sap/trans/EPS/in)

7.Login to "000" client & Using user like "DDIC".(create a user similar to DDIC)

8.Execute the t-code "saint".

9.Menu->Support package-->Load package-->From the Application server(If the package size<5MB then Load package-->From the Frontend)

10.Choose [START] to start an installation or an upgrade ADD-ON.

11.Select the Add-on Click on continue --->Provide PASSWORD which is available in add-on specific note.

12.Schedule import in BTC mode and check status in SM37,or SE12(table pat01).

ADD-ON:

 root # cd /oracle/IMPL/ADD-ON

 root # ll

 root # cd ST\_PI2008

 root # ll

 root # cp -pr KIxxxxxxx.SAR /usr/sap/trans

 root # cd /usr/sap/trans

 root # chmod -R 775 KIxxxxxxx.SAR

 root # chown -R sidadm:sapsys KIxxxxxxx.SAR

 root # su - sidadm

sidadm > cd /usr/sap/trans

sidadm > SAPCAR -xvf KIxxxxxxx.SAR

sidadm> cd /EPS/in

sidadm> ll

OPEN GUI LOGON:

STEP1: Excute Saint

STEP2: click "START"

 -->> click -->>load

 (or)

 -->>Installation package -->from application server

 -->> click -->Continue

 -->> click -->Continue

STEP3: Select Backround mode

 -->> ok --> ADD-on's Runing

STEP4: excute SM37 check background process.

Install successfully.

--------------------------10.LANGUAGE INSTALL(i18n,SMLT)-----------------------

1.Download the Required Language(eg:FR,AR,HI...) from the SMP

2.Copy the ".PAT" file ti the directory /usr/sap/trans/EPS/in.

3.Check the permissions and ownership.

#chmod -R 775 FRECC62F.PAT

#chown -R <sid>adm:sapsys FRECC62F.PAT

4.Adopt the Language in your SAP system using transaction "i18n"

i18nMenu-->i18nCustomizing-->i18n system configuration-->ADD-->Specify the Language which is going to install-->Activate.

5.After Activating the NLS configuration,Add the language.

LANGUAGE INSTALL:

 root # cd /oracle/IMPL/language

 root # ll

 root # cd FR

 root # ll

 root # cp -pr FRxxxxxxx.PAT /usr/sap/trans/EPS/in

 root # cd /usr/sap/trans/EPS/IN

 root # chmod -R 775 FRxxxxxxx.PAT

 root # chown -R sidadm:sapsys FRxxxxxxx.PAT

OPEN GUI LOGON:

STEP1: Excute I18N

 -->>I18N Customizing

 -----> i18n System Configuration -->Double click

STEP2 :click "ADD" --> FR-->ENTER--->Select FR -->Activate

STEP3: Processed language 8E

STEP4: Excute RZ10

 ---->Select Instance profile

 ---> Extend Maintenance -->change

STEP5: Create parameter

 -->>zcsa/installed\_languages 8E -->>copy -->save

STEP6: \*\* Stopsap r3 \*\*\*

 \*\* startsap r3 \*\*\*

STEP7:Excute STML

 ----> click --> Language -->Specify The Language "FR"

 -->Supplementation language "EN" --->>Save

STEP8: Importpacksge

 ---->>PATH --> /usr/sap/trans/EPS/in

 --->Find package -->start on instance

 ---> Select instance-->> Excute

STEP9: THEN open new gul logon language select "FR" -->click -->ok

 ----> system --> ststus --> language "FR"

 Install successfully.

ERROR:

 "Select one languaage"

 root # su - sidadm

sidadm >cdpro

sidadm >vi sid\_DEVBMGS00\_<hostname>

 -->zcsa/installed\_language =8E

:wq!

----------------------------11.CLIENT COPY-----------------------------------------------

 a).LOCAL CLIENT COPY(sccl)

 b).REMOTE CLIENT COPY(scc9)

 c).CLIENT EXPORT/IMPORT(scc8,scc7)

A).LOCAL CLIENT COPY(sccl):

Client Creation:

 Source client:000

 target client:100

STEP1:LoginSap client:000

 User:sapuser

STEP2: Excute "sale"

 --->> Basis settings -->logical system ---> Define Logical System

STEP3: click "New Entries"

 --->>> log.system Name

 SIDCLNT100 SID

 --->> click "Save" ---->> Save

STEP4: Then Excute --->>Scc4

 ---->> Click "Display" --->> click "New Entries"

 client: 100 Testing

 city : xxxxxx

 logical system: SIDCLNT100

 std currecy : INR

 client role : TEST

STEP5: Excute "RZ10"

 --->>Instance profile --> Extended maintenace ---> click "Change"

STEP6: Create parameters "login/no\_automatic\_user\_sapstar=0"

 --->copy ----> Save

STEP7: root # su - sidadm

 sidadm>stopsap r3

 sidaddm>startsap r3

STEP8: logon Sap

 client :100

 userid :sap\*

 password:PASS

Local clientcopy:

STEP9: Excute sccl

 ---> Select profile :SAP\_USER

 ---> Description: usermaster Records and Authorization profile

 ---> sourceclient: 000 (or) 001

STEP10: click "Start Immediately"

 ---> continue

 ----> Simuation

STEP11: Excute "SCC3"

 ---->client copy processing

 Successfully Completed.

B).REMOTE CLIENT COPY(scc9):

 Source : SID ex(DEV) 000

 Target : SID ex(QAS) 800

STEP1: Create client 800 Target system same client creation:

STEP2: Logon (QAS) client:800

 user :sap\*

 password:PASS

STEP3: Create RFC Connection

 ---> SM59

STEP4: Excute SCC9

 ---> Select profile :SAP\_USER

 ---> Description: usermaster Records and Authorization profile

 ---> sourceDestionate: DEV (to) QAS

STEP5: click "Start Immediately"

 ---> continue

 ----> Simuation

STEP6: Excute "SCC3"

 ---->client copy processing

 Successfully Completed.

C).CLIENT EXPORT/IMPORT(scc8,scc7):

 Source : SID ex(DEV) 000

 Target : SID ex(QAS) 500

STEP1: Create client QAS

 ----> following client creation step

STEP2: source system (DEV) Excute SCC8

 ---> Select profile "SAP\_USR"

 ---->target client "QAS"

STEP3: Specify the backgrond job

 -----> select the server

 -----> Continue

 ----> click "OK"

STEP4: Excute "SCC3"

 ---->client copy processing

 ---->click "Export"

 Export Successfully Completed.

STEP5: OS level

 DEV:

root # cd /usr/sap/trans/cofile

root # ll

root # KT00001.DEV

root # scp -pr KT00001.DEV root@192.168.1.16:/usr/sap/trans/cofile

root # cd /usr/sap/trans/data

root # ll

root # RT00001.DEV

root # scp -pr RT00001.DEV root@192.168.1.16:/usr/sap/trans/data

 QAS:

root # cd /usr/sap/trans/cofile

root # chmod -R 775 KT0001.DEV

root # chown -R devadm:sapsys KT00001.DEV

root # cd /usr/sap/trans/data

root # chmod -R 775 RT00001.DEV

root # chown -R devadm:sapsys RT00001.DEV

STEP6: logon sap

 -----> target system QAS

 client:800

 user:sap\*

 password:PASS

STEP7:Excute STMS

 ---> Click "Import overview"

 -----> Select DEV

 ----> Double click

STEP8: Navigate ---> Extras --> other requst

 ---->ADD

STEP9:NEW pop-up Windows open

 ----> Select KT00001 -->ok --> Yes

 ----> Select Package -->Click ---> Import requst (off truk)

STEP10:Select traget client -->click "Import"

STEP11: Remote log

 ----> user ID:SAP\*

 ---->password:PASS

 -----> Import Successfully.

STEP12: Excute "SCC7"

 ----> SChedute Background Job

 -----> Select server ----> Continue

STEP13: Excute "SCC3"

 ---->client copy processing

 ---->click "Export"

 Export Successfully Completed.

----------------------------12.STMS(stms)---------------------------------------------------

 a).2-SYSTEM LANDSCAPE

 b).3-SYSTEM LANDSCAPE

 c).MULTI SYSTEM LANDSCAPE

A).2-SYSTEM LANDSCAPE:

STEP1: All system maintan IP address:

 2- SYSTEM (DEV,QAS,)

root # vi /etc/hosts

 192.168.1.15 willsys15(DEV)

 192.168.1.17 willsys17(PRD)

STEP2: login SAP system :DEV

 ----->client: 000

 ----->user : sapuser

STEP3: Excute STMS

 \*\*\*If Already Confiured Deleted the configuration

 ----> using T-Code: DICO --->Back

 STMS:----> Configure Domain.

STEP4: Go To PRD System

 ---->Excute STMS

 ---> Include the System in "DEV"

STEP5:Then Go To DEV system

 ---- Click " overview " --> system

STEP6: Select PRD ---> click ---> SAP system

 --->click " Approval " --->back

STEP7: Click " overview " --> Transport routes

 --> configuration ---> display<->change

 --> configuration --> standard configuration

 ---> select "dev & prd system

STEP8: Then assign the DEV and PRD system ---> click "OK"

 2-system landscape successfully.

B).3-SYSTEM LANDSCAPE:

STEP1: All SYStem maintan IP address:

 3- SYSTEM (DEV,QAS,PRD)

root # vi /etc/hosts

 192.168.1.15 willsys15(DEV)

 192.168.1.16 willsys16(QAS)

 192.168.1.17 willsys17(PRD)

STEP2: login SAP system :DEV

 ----->client: 000

 ----->user : sapuser

STEP3: Excute STMS

 \*\*\*If Already Confiured Deleted the configuration

 ----> using T-Code: DICO --->Back

 STMS:----> Configure Domain.

STEP4: QAS,PRD System

 ---->Excute STMS

 ---> Include the System in "DEV"

STEP5:Then Go To DEV system

 ---- Click " overview " --> system

STEP6: Select QAD & PRD ---> click ---> SAP system

 --->click " Approval " --->back

STEP7: Click " overview " --> Transport routes

 --> configuration ---> display<->change

 --> configuration --> standard configuration

 ---> select 3 system in the group

STEP8: Then assign the DEV and QAS & PRD system ---> click "OK"

 3-system landscape successfully.

 C).MULTI SYSTEM LANDSCAPE

 STEP1: All SYStem maintan IP address:

 MULTI SYSTEM (DEV,TST,QAS,PRD)

root # vi /etc/hosts

 192.168.1.15 willsys15(DEV)

 192.168.1.16 willsys16 (TST)

 192.168.1.17 willsys1 7(QAS)

 192.168.1.18 willsys18(PRD)

STEP2: login SAP system :DEV

 ----->client: 000

 ----->user : sapuser

STEP3: Excute STMS

 \*\*\*If Already Confiured Deleted the configuration

 ----> using T-Code: DICO --->Back

 STMS:----> Configure Domain.

STEP4: TST,QAS,PRD System

 ---->Excute STMS

 ---> Include the System in "DEV"

STEP5:Then Go To DEV system

 ---- Click " overview " --> system

STEP6: Select TST & QAD & PRD ---> click ---> SAP system

 --->click " Approval " --->back

STEP7: Go STMS Home Page ---> Go To Extra ---> Setting --->Transport Routes.

STEP 8:One Pop -Up Window Will Be Open. Here Select HIERACHICAL List EDITOR Option.

 ----->Click TRANSPORT ROUTES.

STEP 9: Click Edit Icon ---> Select Target Groups.

 ------>Then Click Create Icon.

STEP 10: One pop-up window will be open Specify Target Group.

 ---->Target Group Name should be in / / (Ex: /CONSOLE/)

 ---->Specify Short Description

 -----> Include Consolidation Route System ----> Click Continue

STEP 11: Click Edit Icon ---> Select Target Groups.

 ------>Then Click Create Icon.

STEP 12: One pop-up window will

 ---> Specify Target Group. Target Group Name should be in

 ---->/ / (Ex: /DELIVERY/)

-->Specify Short Description

--->Include Consolidation Route System

----->Click Continue ---> Target Groups created

STEP 13: Select Transport Routes. Then Click Create icon

 ----->Click Extended Transport Control.

STEP 14: Select Consolidation option.

 Specify Integration System, Transport Layer, Consolidation System

(In Consolidation System, we want to specify Consolidation Target Group Name)

STEP 15: Select Transport Routes. Then Click Create icon

 --->Click Extended Transport Control

 Select Delivery option Specify Delivery Source, Delivery Target (In Delivery Target, we want to specify¬ Delivery Target Group Name)

 -----> Click Continue.

STEP 16: SAVE the TMS Configuration

 ------>Click Graphical Editor Icon

 ---->TMS Configuration Successfully Completed

 IMPORT TRANSPORT REQUEST AT OS LEVEL

STEP 1 Create Transport Request in Source System. Then Release the

 Transport Request in SE01.¬

 Copy the changes request from Source system to Target system

STEP 2: Go to Target System

 Give the permission and Ownership for the

 Transport request in cofiles and data folde

 /usr/sap/trans/cofiles

 /usr/sap/trans/data

Step 3: login sidadm

 First add Transports Request in the buffer with below command:

 tp addbuffer <filenumber> SID client = 001 pf=/usr/sap/bin/TP\_DOMAIN\_DEV.TPL

Step 4:

Import Transport Requests using tp command

tp import <filenumber> SID client = 001 pf=/usr/sap/bin/TP\_DOMAIN\_DEV.TPL

STEP 5: Login to SAP. Then check status.