



INSTRUCTIVO PARA LA REALIZACIÓN DE COPIA HETEROGRÉNEA EN BASE DE DATOS MAXDB

Código Interno	I.DE.408.001	Gerencia de Operaciones TI	Fecha de Emisión
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TABLA DE CONTENIDO

1.	OBJETIVO	3
2.	ALCANCE	3
3.	DEFINICIONES	3
4.	PREREQUISITOS	3
5.	INSTRUCCIONES PARA REALIZAR COPIA HETEROGENEA	3
6.	DELETE QCM TABLES	4
7.	VERIFICAR QUE LAS TABLAS TATGPC Y TATGPCA ESTÉN VACIAS (SE16)	5
8.	GENERAR DDL STATEMENTS	7
9.	INICIAR EL PROCESO DEL EXPORT	9
10.	CONTINUAR CON EL PROCESO DE IMPORT	36
11.	DOCUMENTOS DE REFERENCIA	43

1. OBJETIVO

Describir los pasos para la realización de Copia Heterogénea entre bases de datos MAXBD a SQL

2. ALCANCE

Aplica para la migración de copia heterogénea entre bases de datos MAXDB a SQL con la metodología “**Export Import**” para recrear la estructura de la base de datos en el sistema destino.

3. DEFINICIONES

- **Copia Heterogénea:** Es la copia de un sistema SAP a un nuevo ambiente donde es sistema fuente y el sistema destino son diferentes en cuanto al sistema operativo y/o el sistema de base de datos.
- **Usuario:** Persona quien reporta una solicitud de servicio, puede ser de un cliente externo o interno.

4. PREREQUISITOS

- Verificar espacio en disco tanto en el sistema destino como en el sistema fuente
- Verificar que el sistema operativo está instalado
- Instalar java
- Configurar variables de ambientes
- ejecutar **SAPINST**

5. INSTRUCCIONES PARA REALIZAR COPIA HETEROGENEA

Tener Claro los siguientes puntos:

- **El cliente fuente:** De donde se van a restaurar los datos
- **El Cliente Destino:** A donde van a ser restaurados los datos
- **El Espacio de Destino:** Debe ser suficiente para la restauración, deben ser borrados los datos contenidos en los directorios de destino.

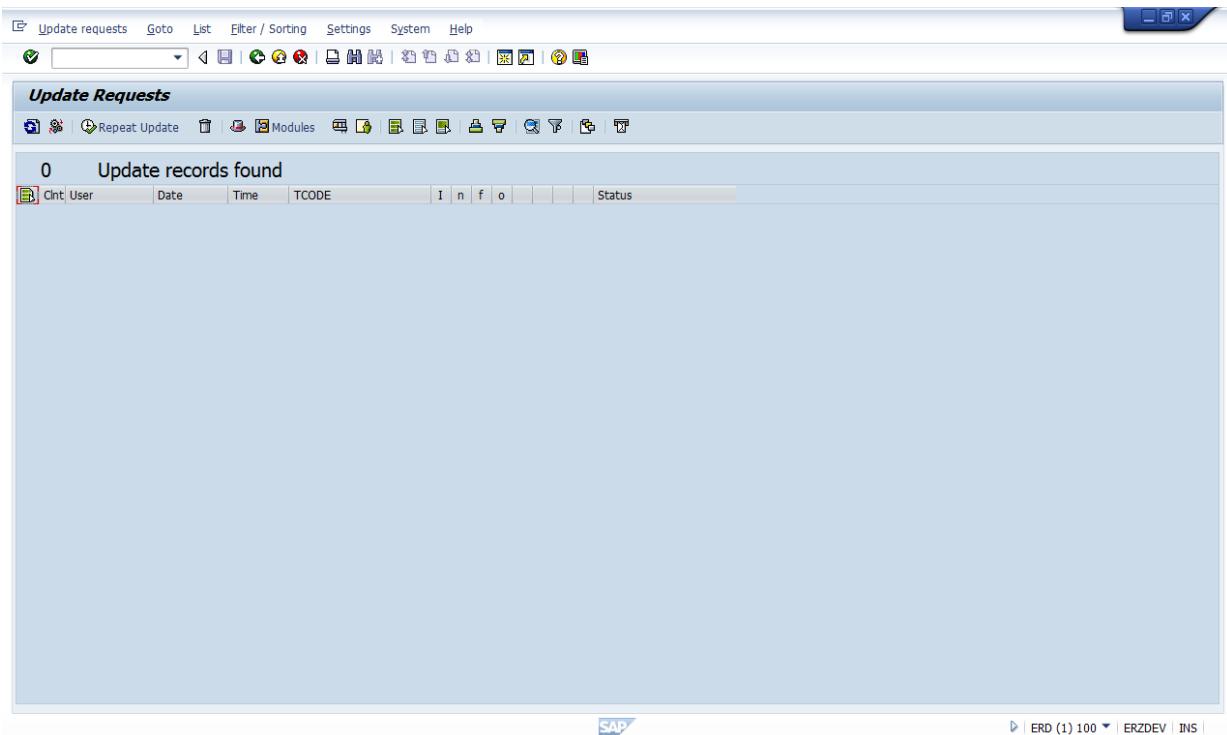
5.1 Usar Migration Key (genérica)

Solution:

Use the following migration key (valid until 31/DEC/11):
1G5fdEM50DmlrBzjt6TE5Pae

5.2 Buscar y Cancelar Updates

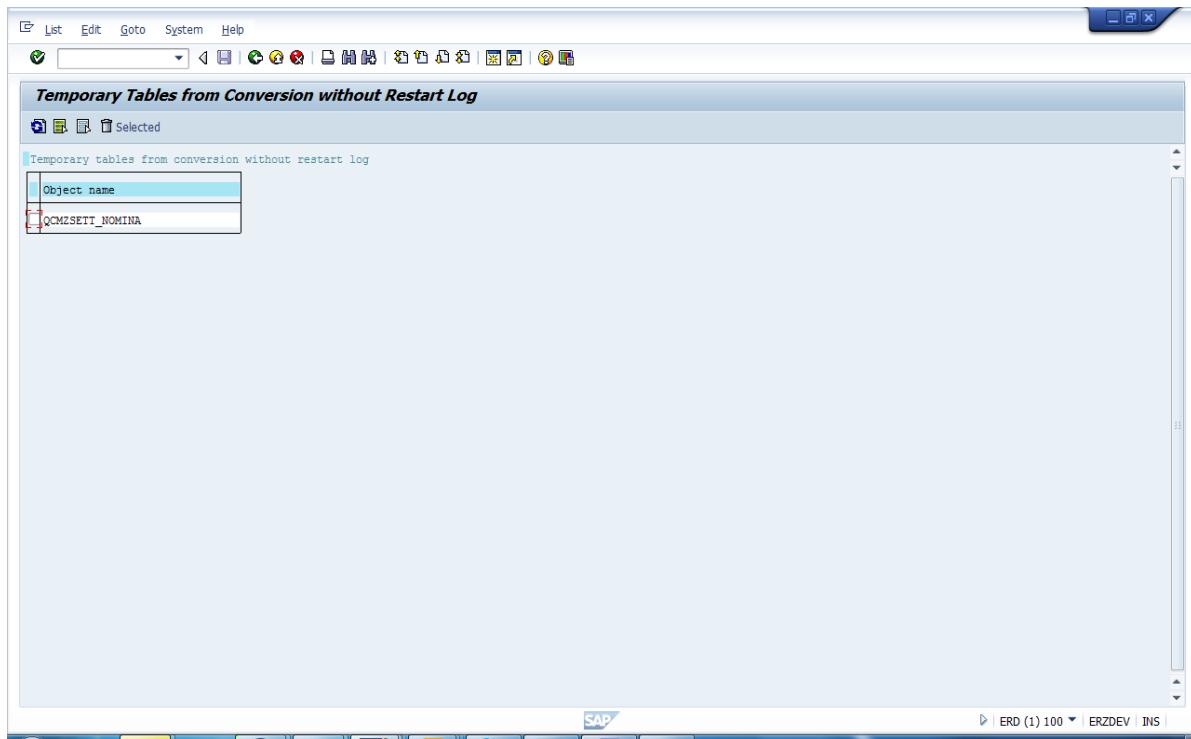
- **TX SM13**



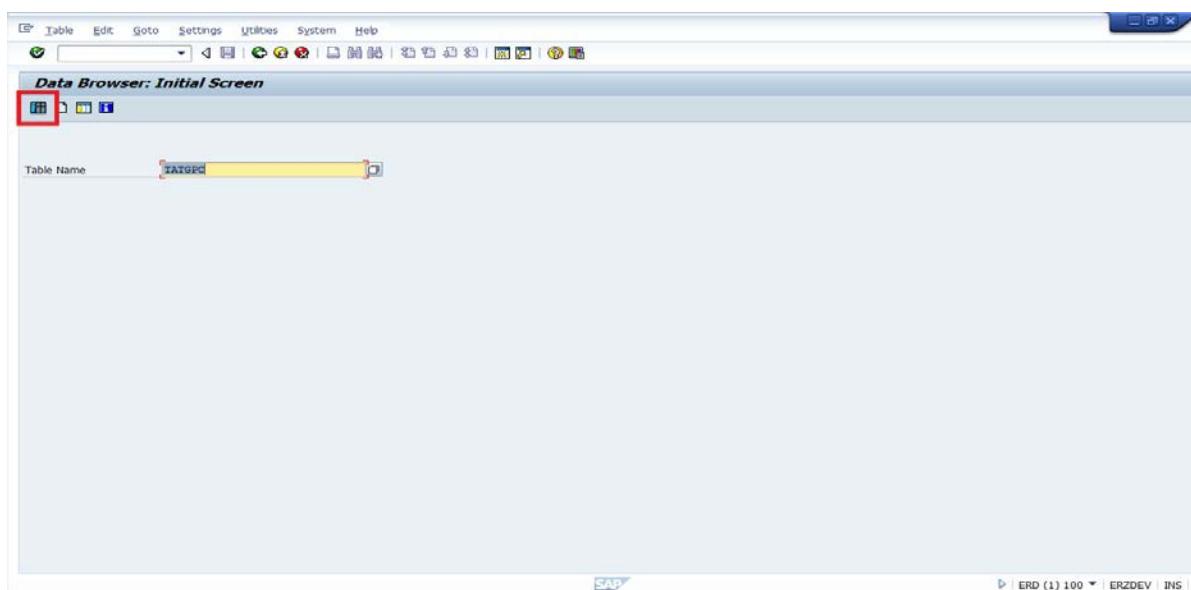
En este caso no hay procesos de update cancelados.

6. DELETE QCM TABLES

- Se14
- Extra→Invalid tem.Table
 - All QCM tables that can be deleted are displayed
- Mark the tables and delete them



7. VERIFICAR QUE LAS TABLAS TATGPC Y TATGPCA ESTÉN VACIAS (SE16)



INSTRUCTIVO PARA LA REALIZACIÓN DE COPIA HETEROGENEA DESDE BASE DE DATOS MAXDB A SQL

Data Browser: Table TATGPC: Selection Screen

Number of Entries

K1N5	<input type="text"/>	to <input type="text"/>	<input type="button"/>
K2C5	<input type="text"/>	to <input type="text"/>	<input type="button"/>
K3NS	<input type="text"/>	to <input type="text"/>	<input type="button"/>
I1	<input type="text"/>	to <input type="text"/>	<input type="button"/>
I2	<input type="text"/>	to <input type="text"/>	<input type="button"/>
I4	<input type="text"/>	to <input type="text"/>	<input type="button"/>
N5	<input type="text"/>	to <input type="text"/>	<input type="button"/>
N8	<input type="text"/>	to <input type="text"/>	<input type="button"/>
D04	<input type="text"/>	to <input type="text"/>	<input type="button"/>
D08	<input type="text"/>	to <input type="text"/>	<input type="button"/>
D14	<input type="text"/>	to <input type="text"/>	<input type="button"/>
D15	<input type="text"/>	to <input type="text"/>	<input type="button"/>
DT8	<input type="text"/>	to <input type="text"/>	<input type="button"/>
TM6	<input type="text"/> 00:00:00	to <input type="text"/> 00:00:00	<input type="button"/>
C01	<input type="text"/>	to <input type="text"/>	<input type="button"/>
C20	<input type="text"/>	to <input type="text"/>	<input type="button"/>
C33	<input type="text"/>	to <input type="text"/>	<input type="button"/>
R8	<input type="text"/> 0000000000000000	to <input type="text"/> 0000000000000000	<input type="button"/>
C226	<input type="text"/>	to <input type="text"/>	<input type="button"/>
C254	<input type="text"/>	to <input type="text"/>	<input type="button"/>
LEN	<input type="text"/>	to <input type="text"/>	<input type="button"/>

Width of Output List
 Maximum No. of Hits

No table entries found for specified key

Data Browser: Table TATGPCA: Selection Screen

Number of Entries

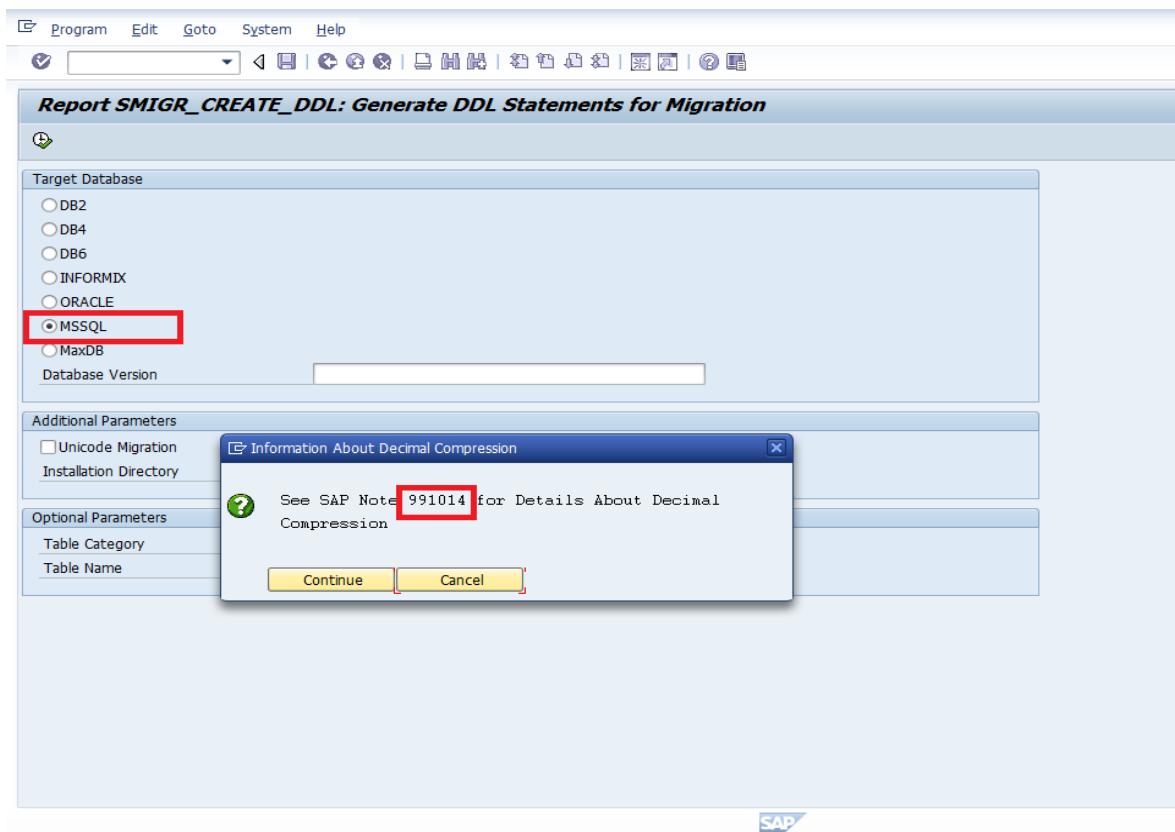
K1N5	<input type="text"/>	to <input type="text"/>	<input type="button"/>
K2C5	<input type="text"/>	to <input type="text"/>	<input type="button"/>
K3NS	<input type="text"/>	to <input type="text"/>	<input type="button"/>
I1	<input type="text"/>	to <input type="text"/>	<input type="button"/>
I2	<input type="text"/>	to <input type="text"/>	<input type="button"/>
I4	<input type="text"/>	to <input type="text"/>	<input type="button"/>
N5	<input type="text"/>	to <input type="text"/>	<input type="button"/>
N8	<input type="text"/>	to <input type="text"/>	<input type="button"/>
D04	<input type="text"/>	to <input type="text"/>	<input type="button"/>
D08	<input type="text"/>	to <input type="text"/>	<input type="button"/>
D14	<input type="text"/>	to <input type="text"/>	<input type="button"/>
D15	<input type="text"/>	to <input type="text"/>	<input type="button"/>
DT8	<input type="text"/>	to <input type="text"/>	<input type="button"/>
TM6	<input type="text"/> 00:00:00	to <input type="text"/> 00:00:00	<input type="button"/>
C01	<input type="text"/>	to <input type="text"/>	<input type="button"/>
C20	<input type="text"/>	to <input type="text"/>	<input type="button"/>
C33	<input type="text"/>	to <input type="text"/>	<input type="button"/>
R8	<input type="text"/> 0000000000000000	to <input type="text"/> 0000000000000000	<input type="button"/>
C226	<input type="text"/>	to <input type="text"/>	<input type="button"/>
C254	<input type="text"/>	to <input type="text"/>	<input type="button"/>
LEN	<input type="text"/>	to <input type="text"/>	<input type="button"/>

Width of Output List
 Maximum No. of Hits

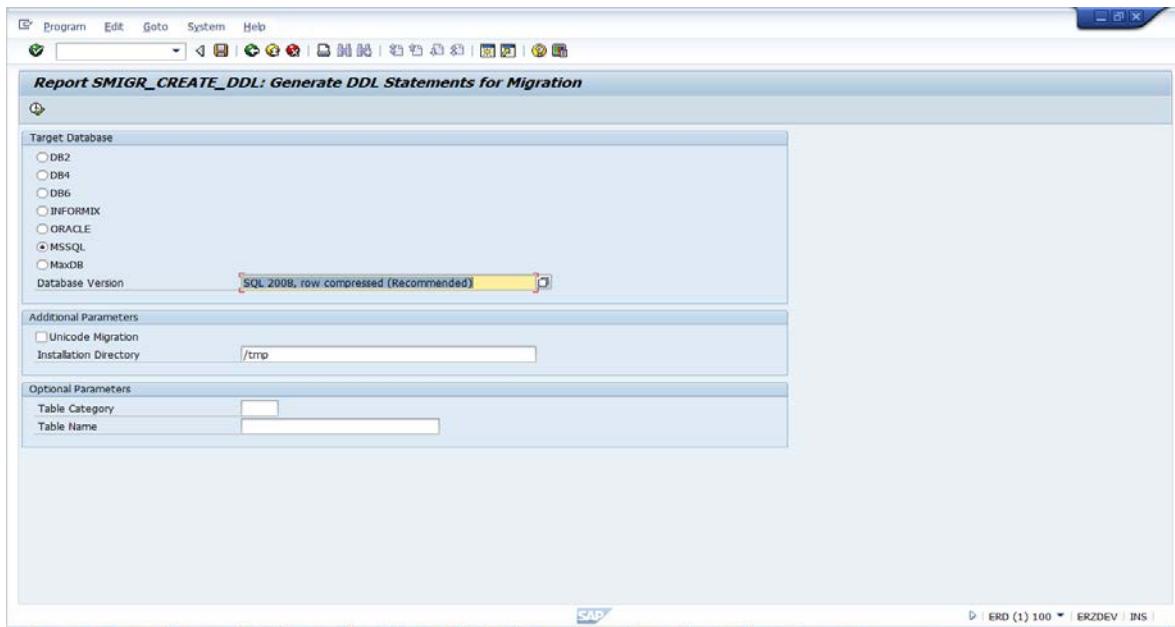
No table entries found for specified key

8. GENERAR DDL STATEMENTS

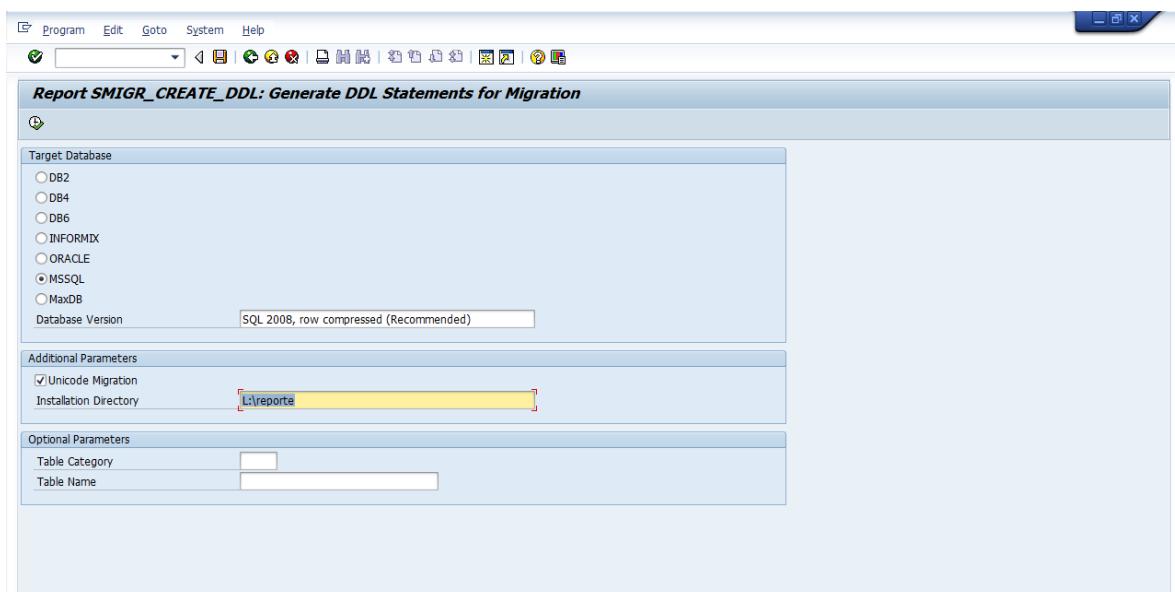
- Generar DDL statements usando el reporte abap SMIGR_CREATE_DDL
 - Loquearse en el sistema fuente
 - Llamar la Tx Se38 y correr el programa SMIGR_CREATE_DDL



- Dar clic en continuar y seleccionar la base de datos a donde va.



- Seleccionar ruta donde se va a guardar el DDL statements en el servidor.



9. INICIAR EL PROCESO DEL EXPORT

- Si se presenta error en el sapinst.exe por los puertos (default 21200 y 21212) abre una ventana de CMD cámbiate al directorio donde está el sapinst

<DVD driver>:\IM_WINDOWS_<plataforma>

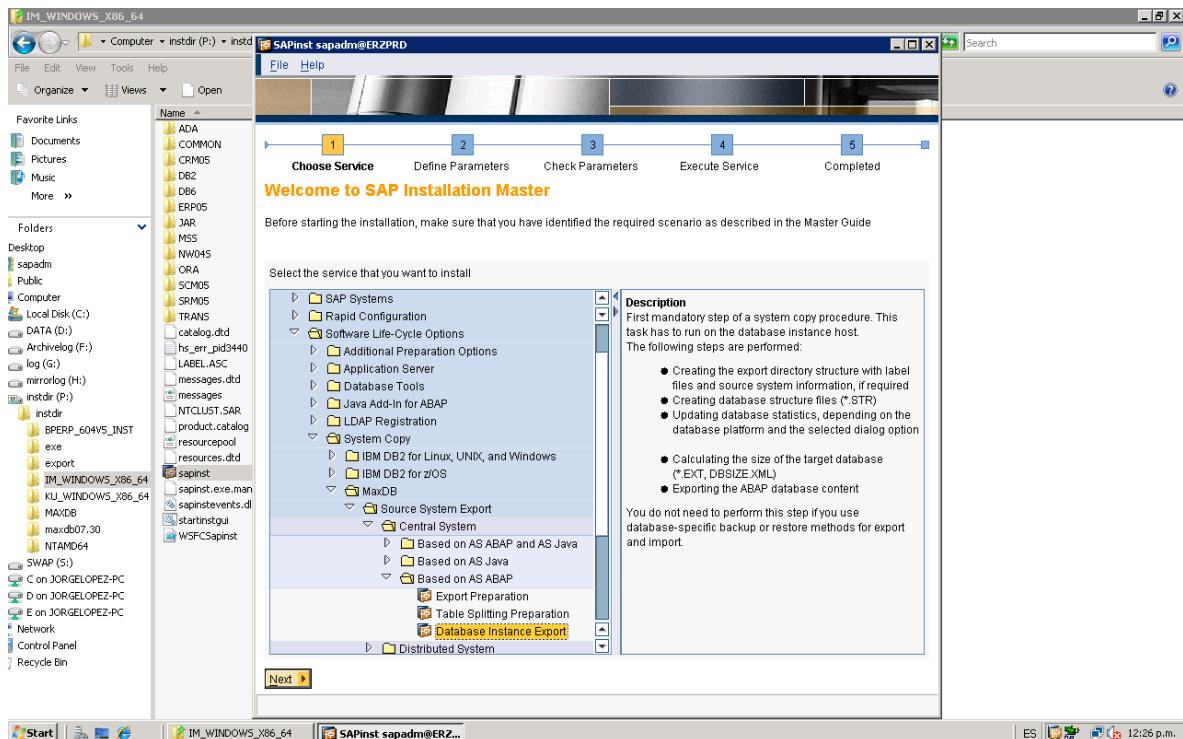
- Introducer los siguientes commandos

```
SAPINST_DIALOG_PORT=<free_port_number_sapinst_gui_to_gui_server>
```

```
GUISERVER_DIALOG_PORT=<free_port_number_gui_server_to_sapinst_gui>
```

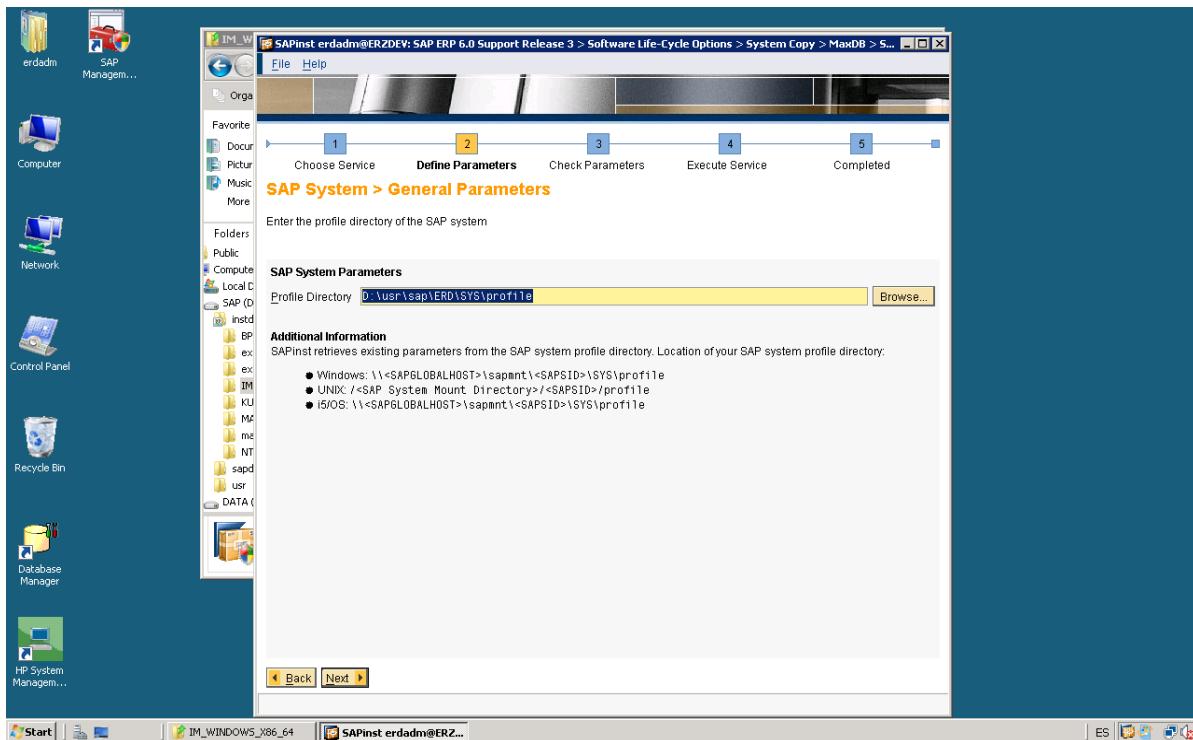
**PARA LA LISTA DE TODOS LOS PUERTOS AVILITADOS PARA
EL SAPINST USA EL SIGUIENTE COMANDO sapinst -p**

- Iniciar el proceso del Export. (Esto depende de la base de datos, sistema, etc, etc).



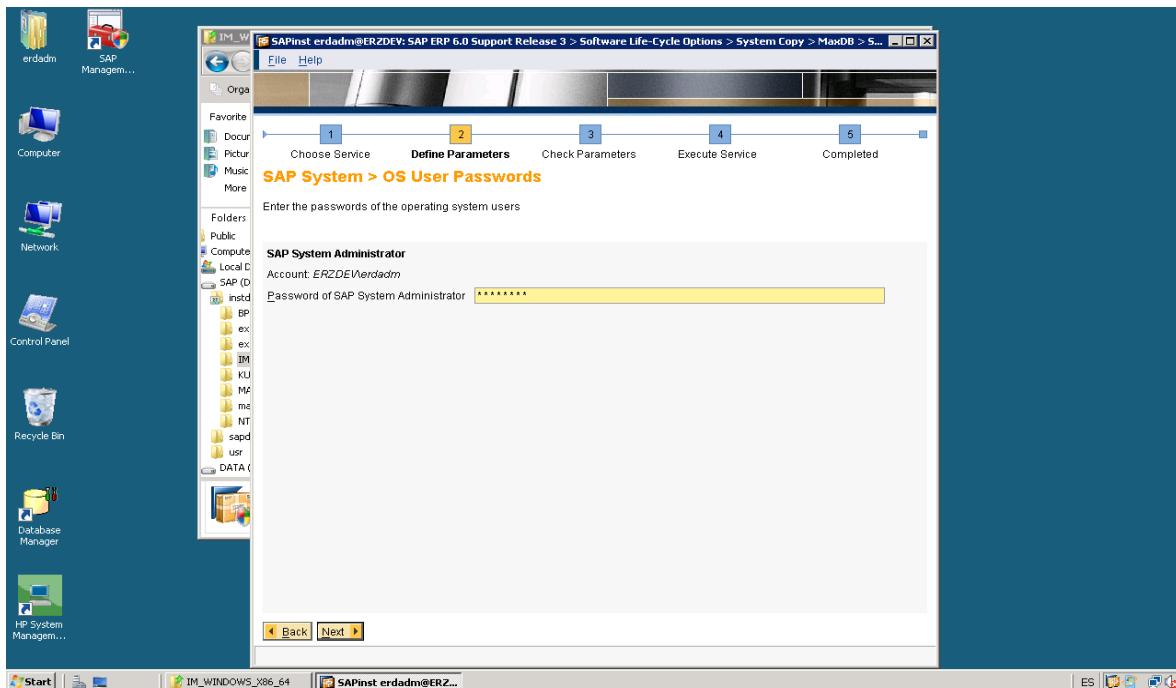
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- Respaldar la instancia (profile)

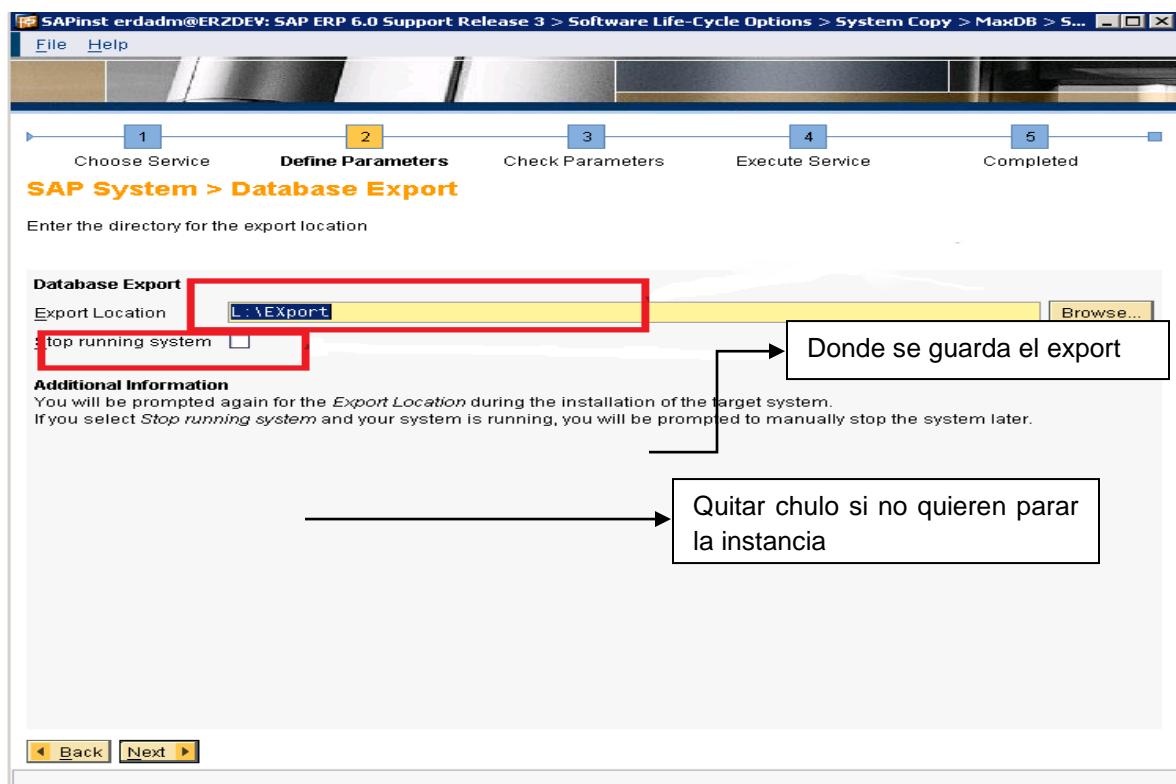


- Colocar Clave de SIDADM

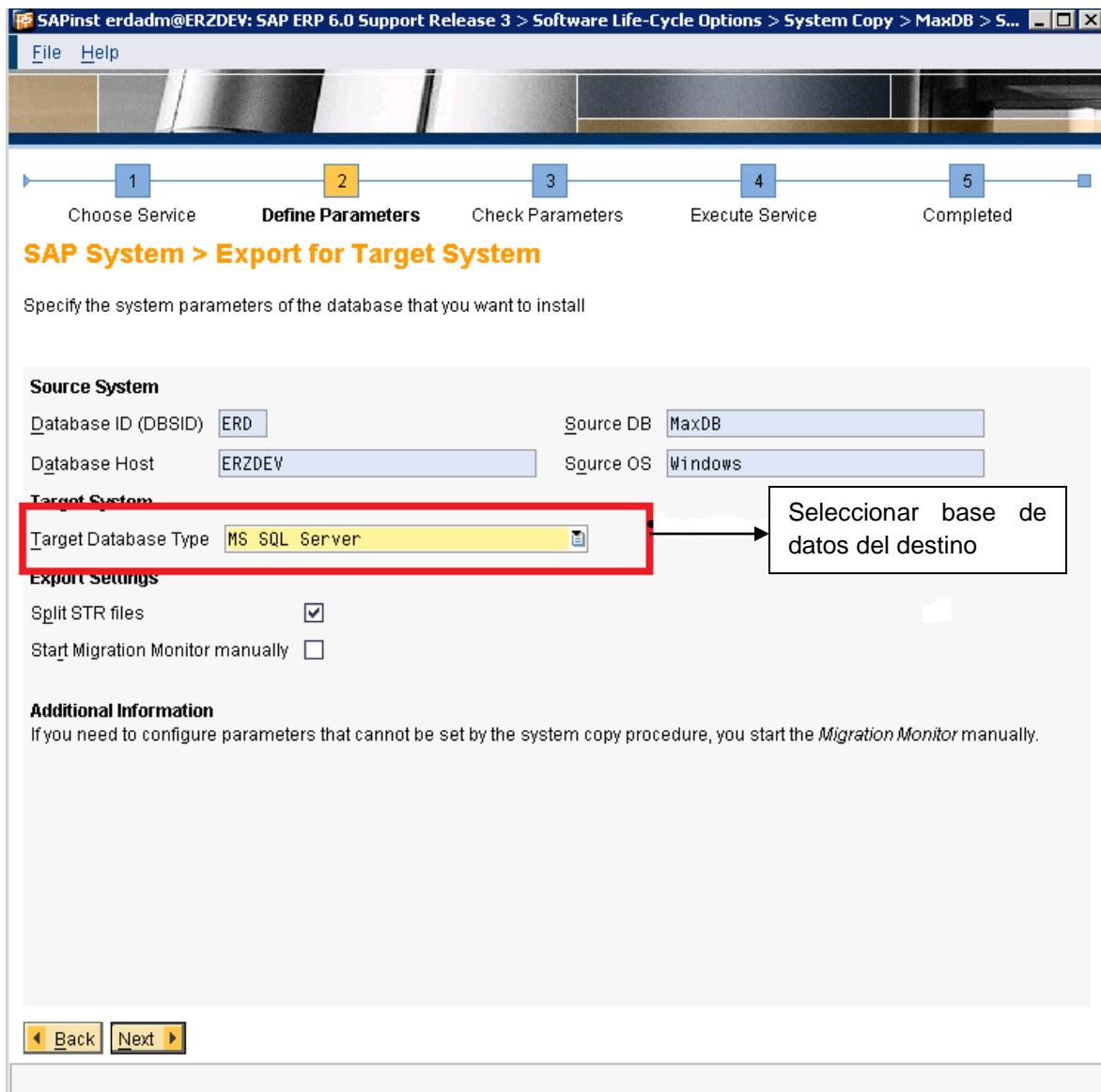
INSTRUCTIVO PARA LA REALIZACIÓN DE COPIA HETEROGENEA DESDE BASE DE DATOS MAXDB A SQL



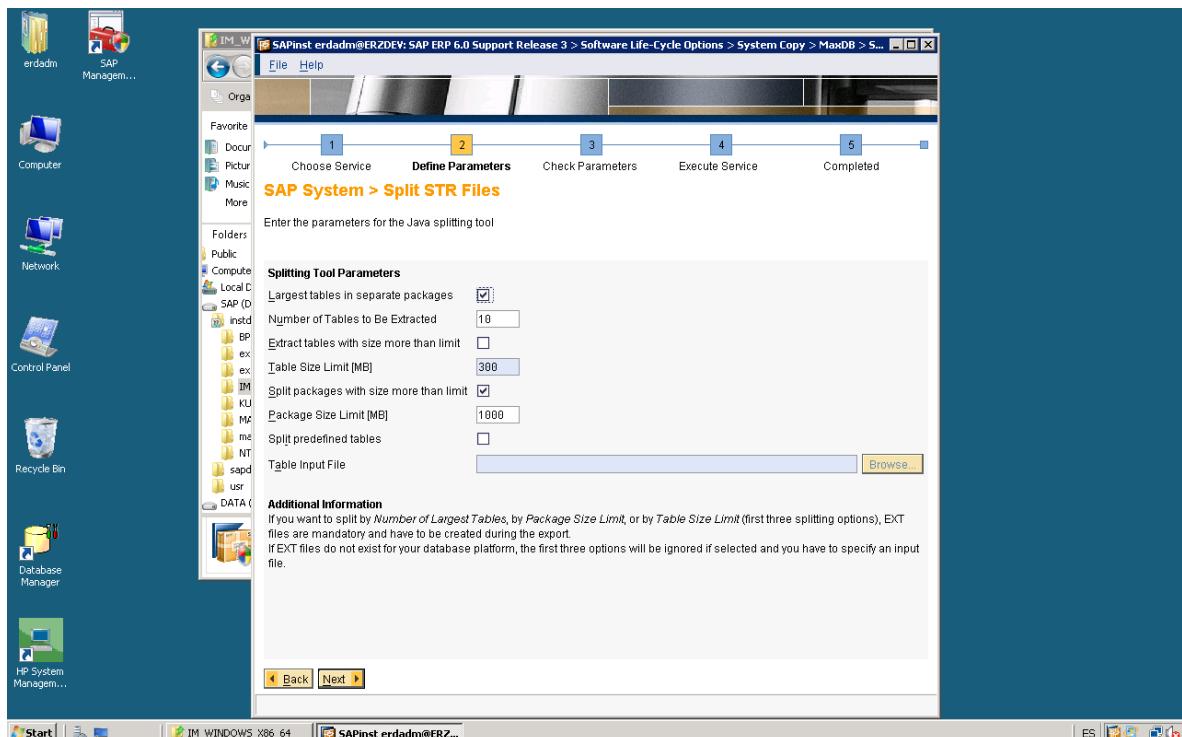
- Ruta donde se guarda el Export



- Seleccionar la base de datos del destino



- Dejar por Defecto



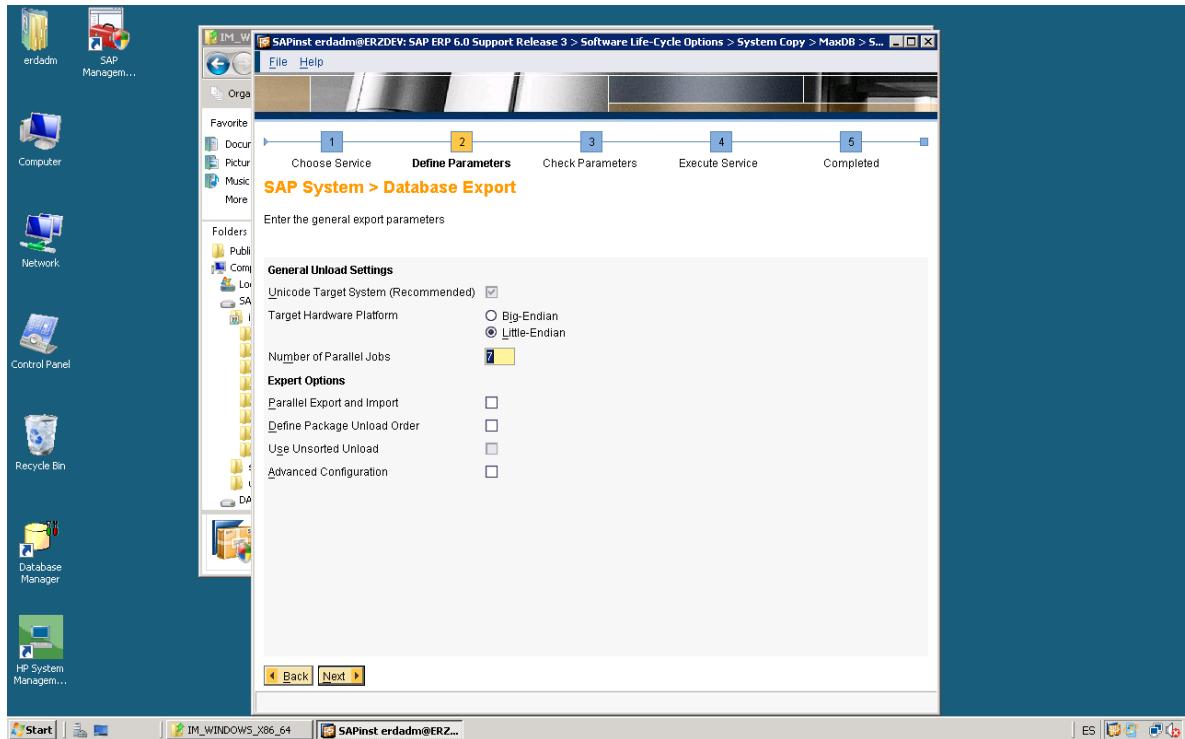
- Marcar el Hardware a donde va.

the endianess of the target system. More exactly speaking, the export code prepares import processes will run.

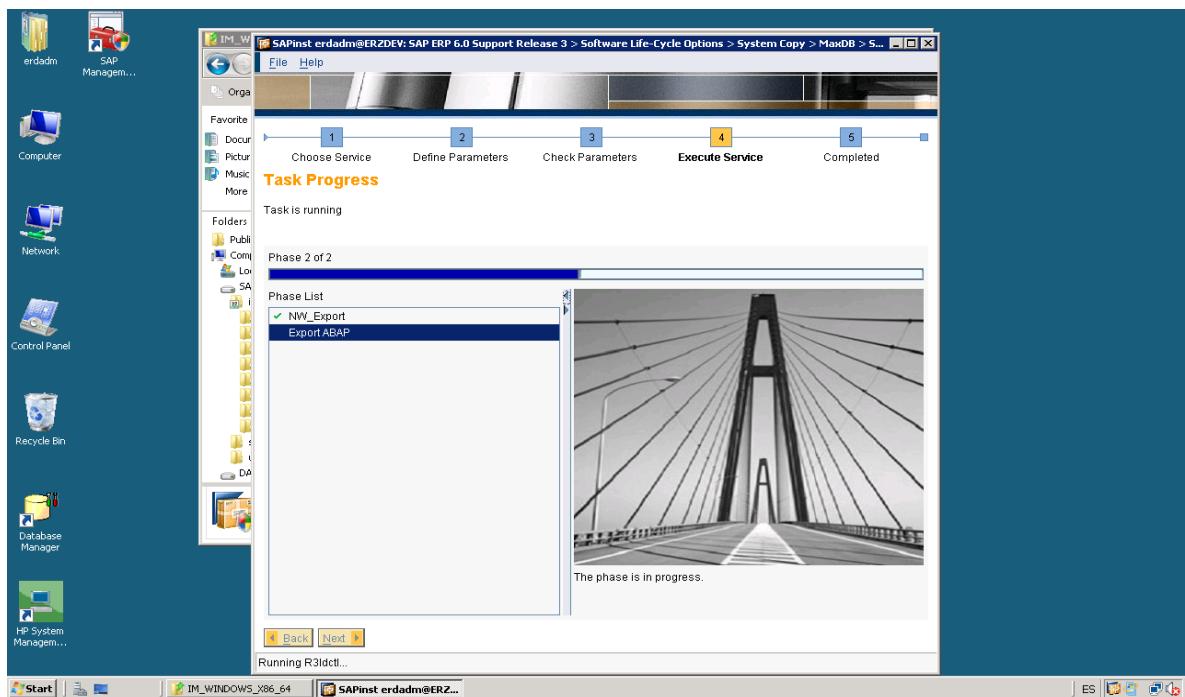
4103 LittleEndian	Alpha, Intel x86 (and clones), x86_64, Itanium (windows+Linux), Solaris_X86_64
4102 BigEndian	IBM 390, AS/400, PowerPC (AIX), Linux on zSeries (s/390), Linux on Power, Solaris_SPARC , HP PA-RISC, Itanium (HP-UX)

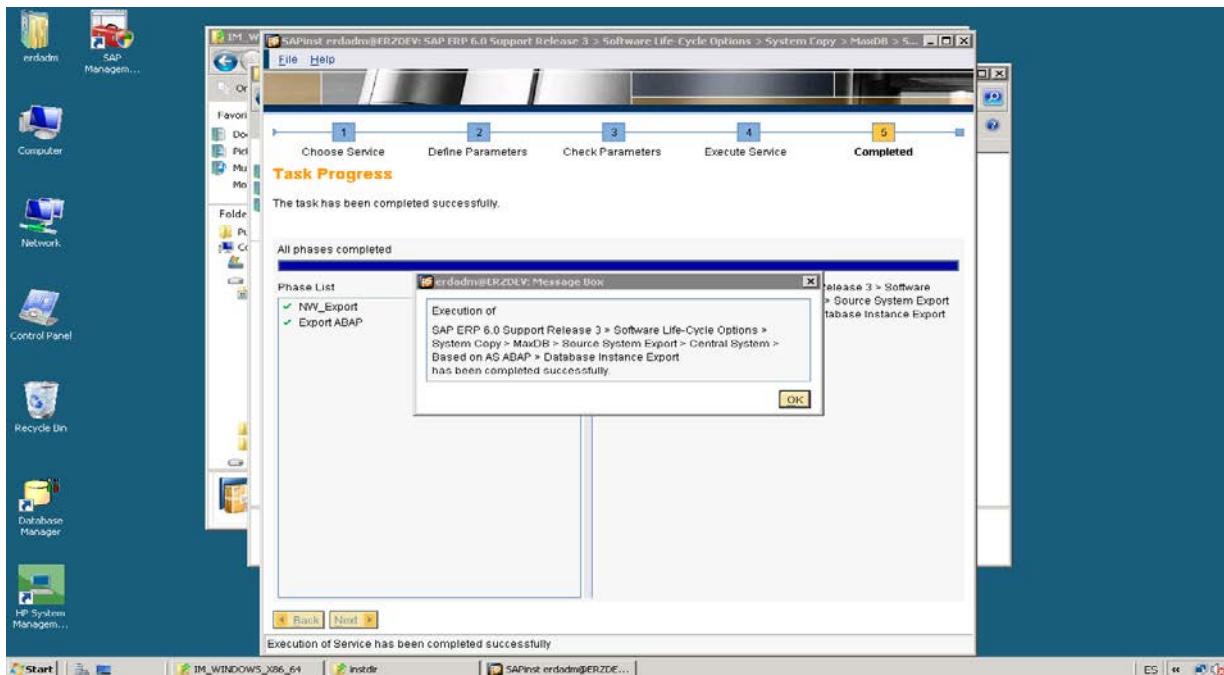
Nuestro Caso cambiamos de Base de datos mas no de sistema operativo (opción LittleEndian) (Windows)

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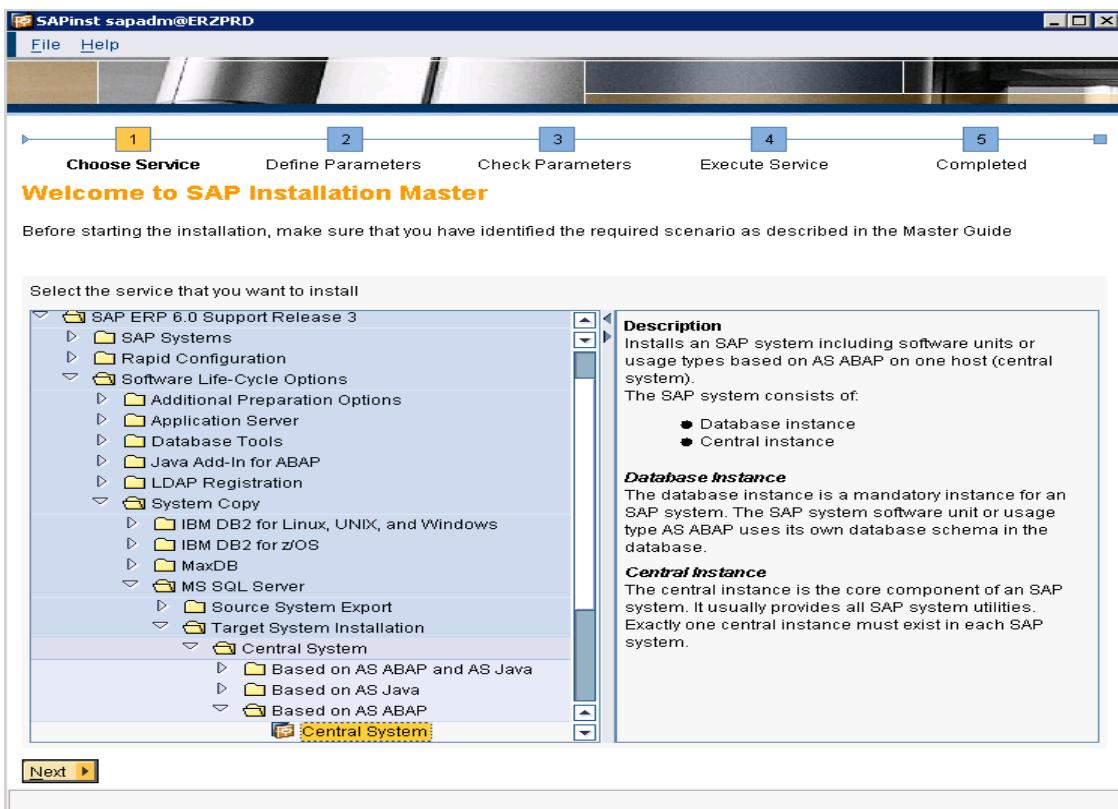


- Correr Export

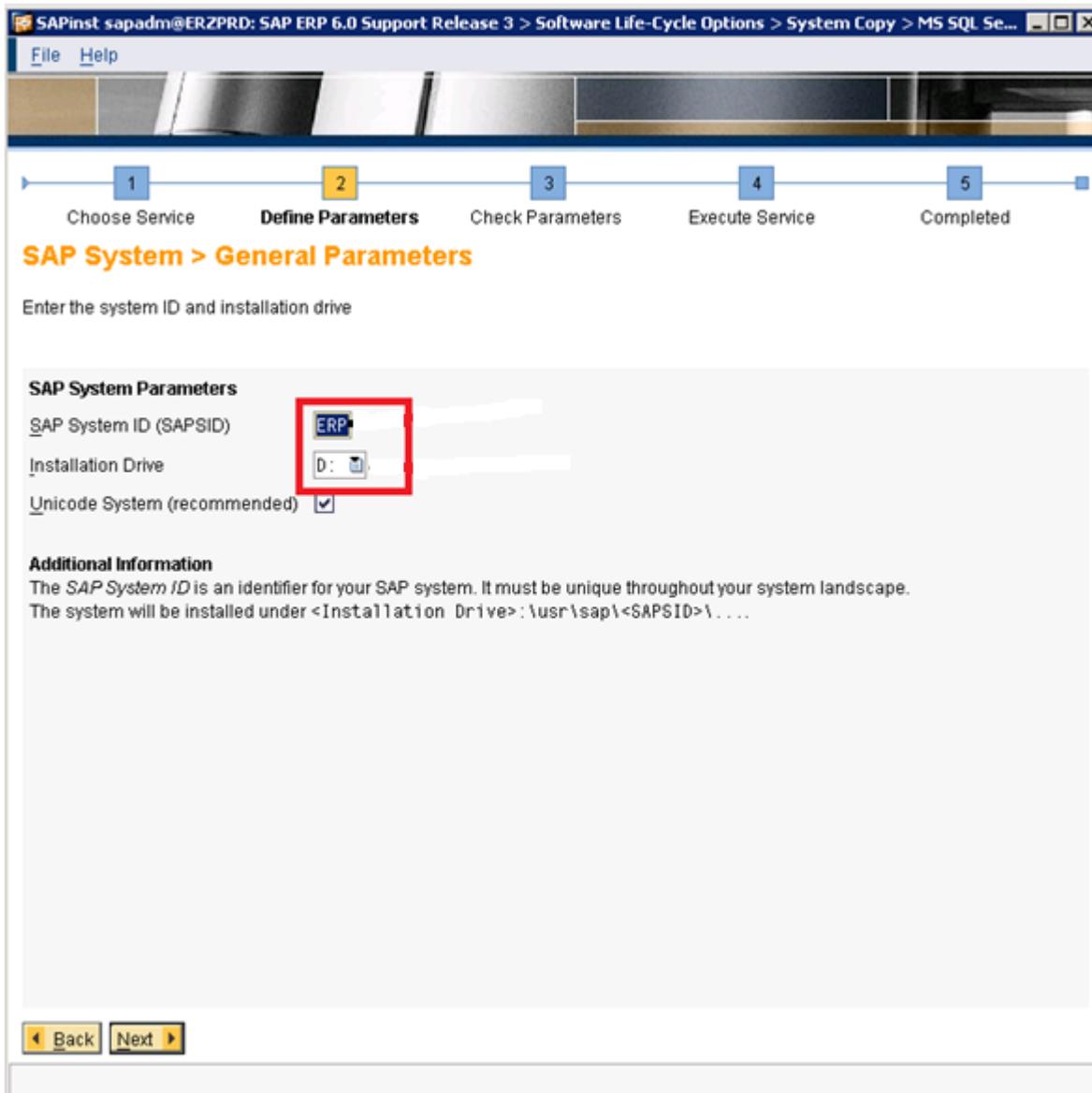




- Correr Import

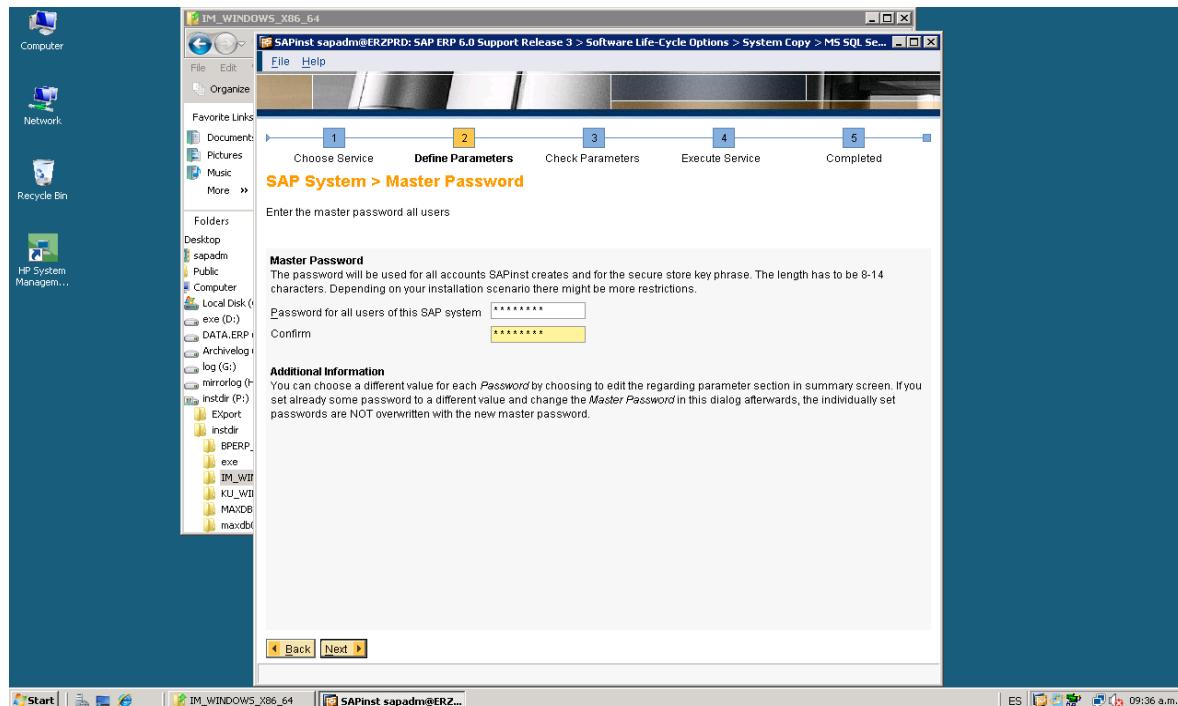


- Seleccionar SID y Driver donde se instalar SAP

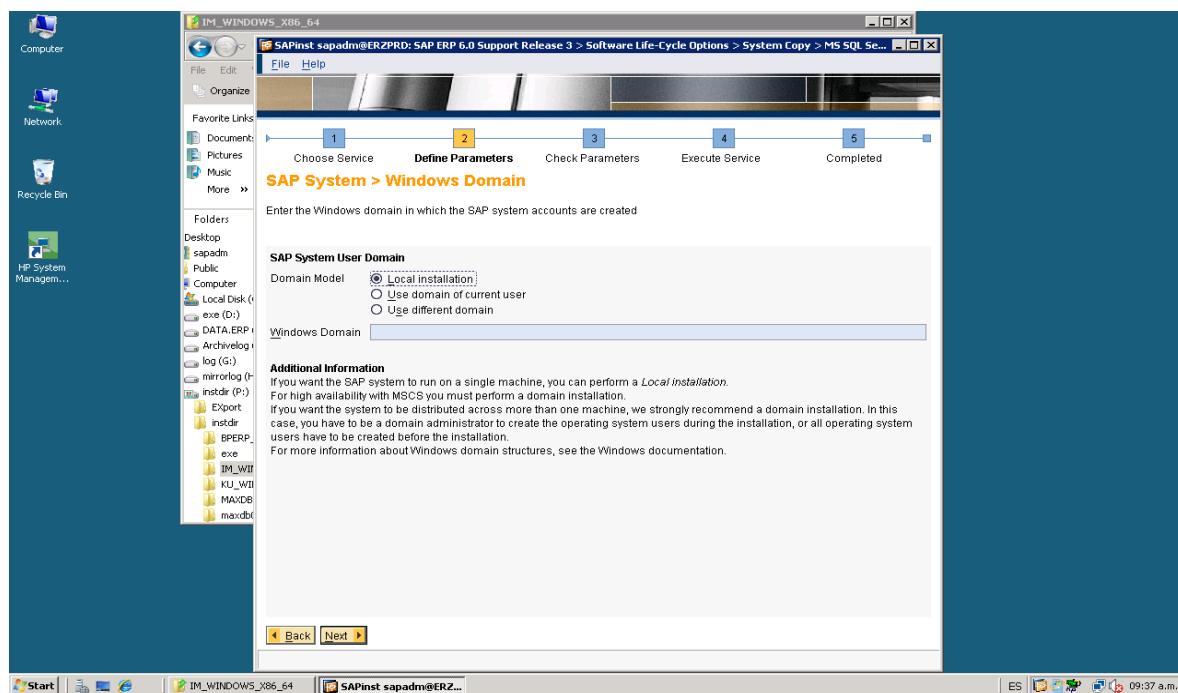


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- Colocar claves de todos los usuarios (SIDADM, SAPSERVICE,etc)

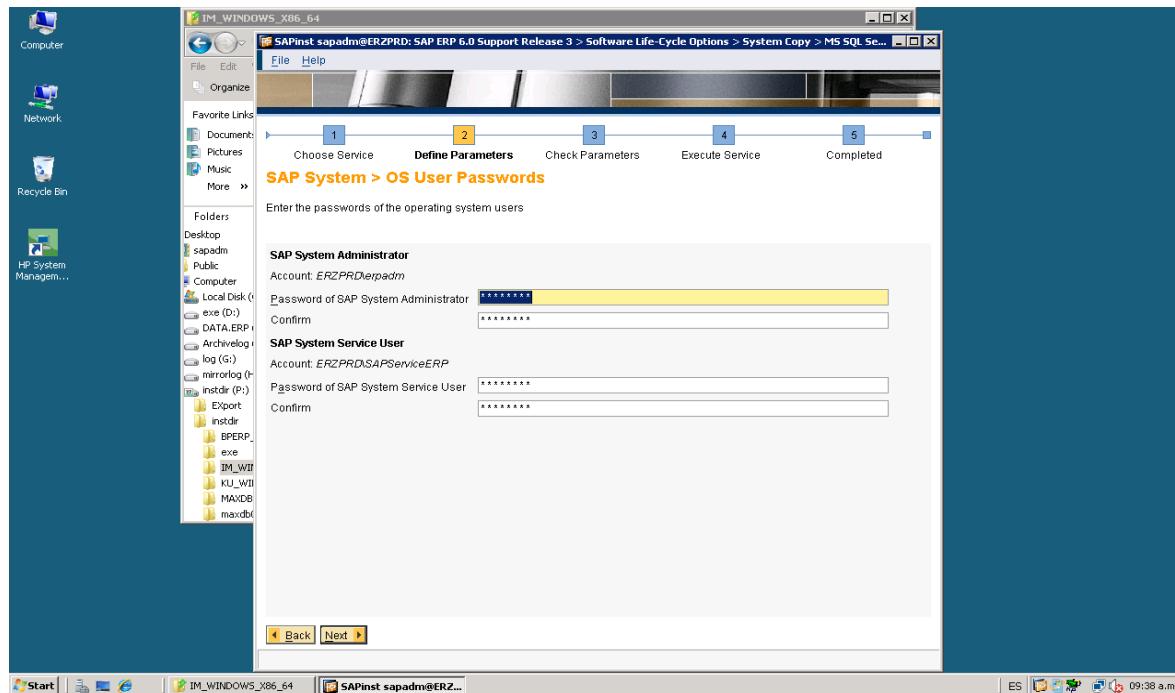


- Instalar local

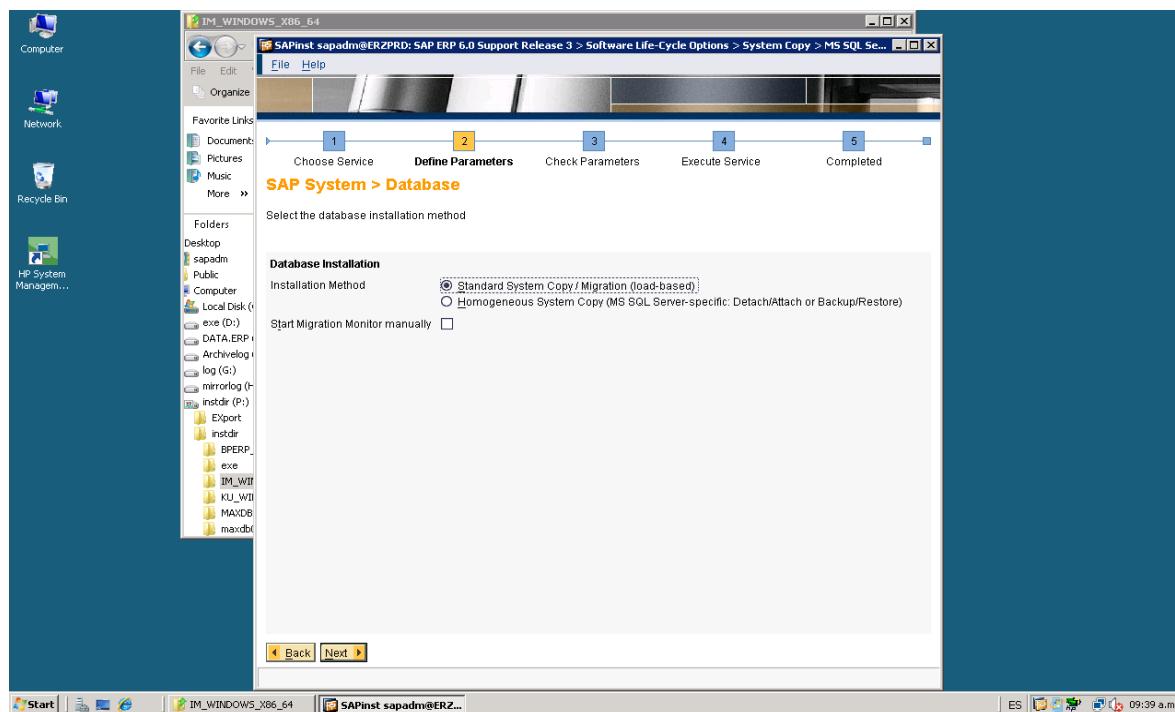


INSTRUCTIVO PARA LA REALIZACIÓN DE COPIA HETEROGENEA DESDE BASE DE DATOS MAXDB A SQL

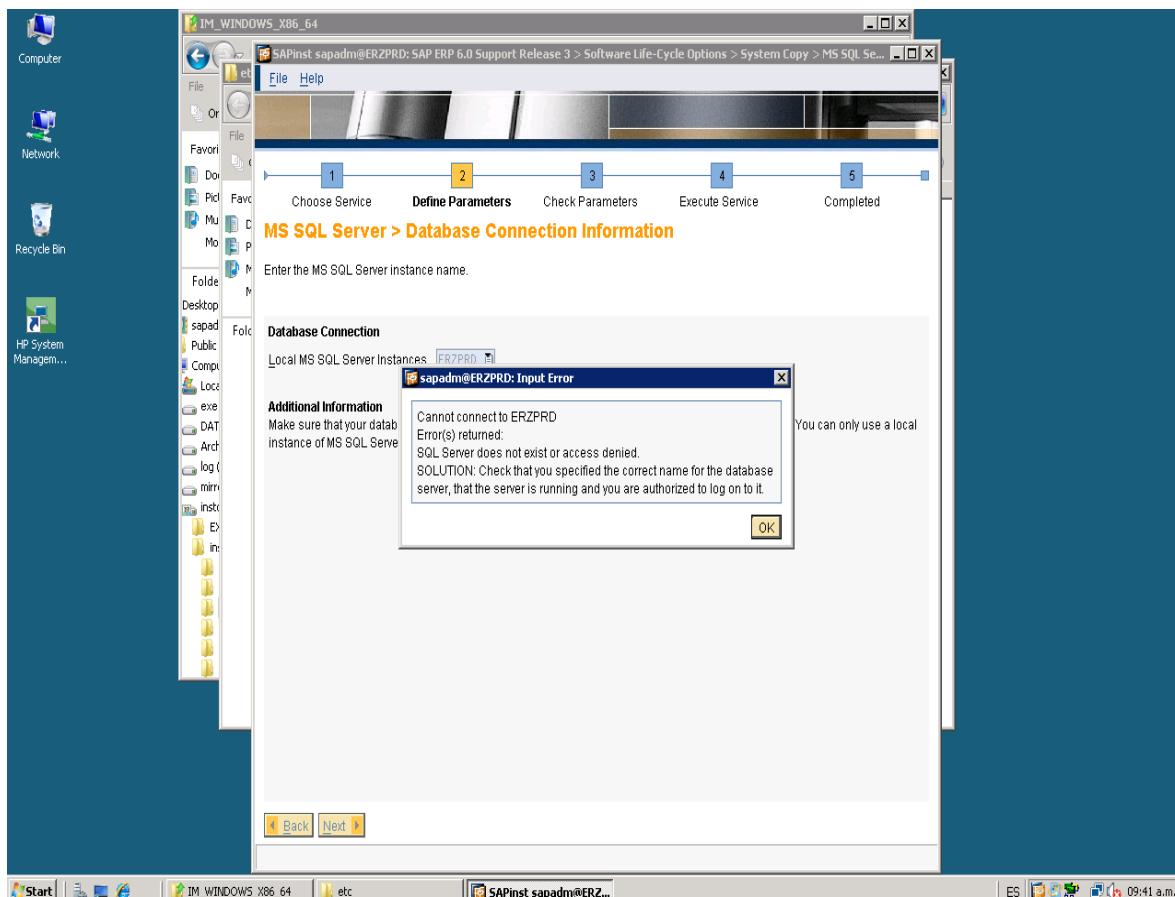
- Misma clave del master password



- Seleccionar el método usual para el System Copy



INSTRUCTIVO PARA LA REALIZACIÓN DE COPIA HETEROGENEA DESDE BASE DE DATOS MAXDB A SQL



El Error presentado es debido que la base de datos de SQL tiene que instalarse el motor primero

9.1 Instalación del Motor MS SQL Server

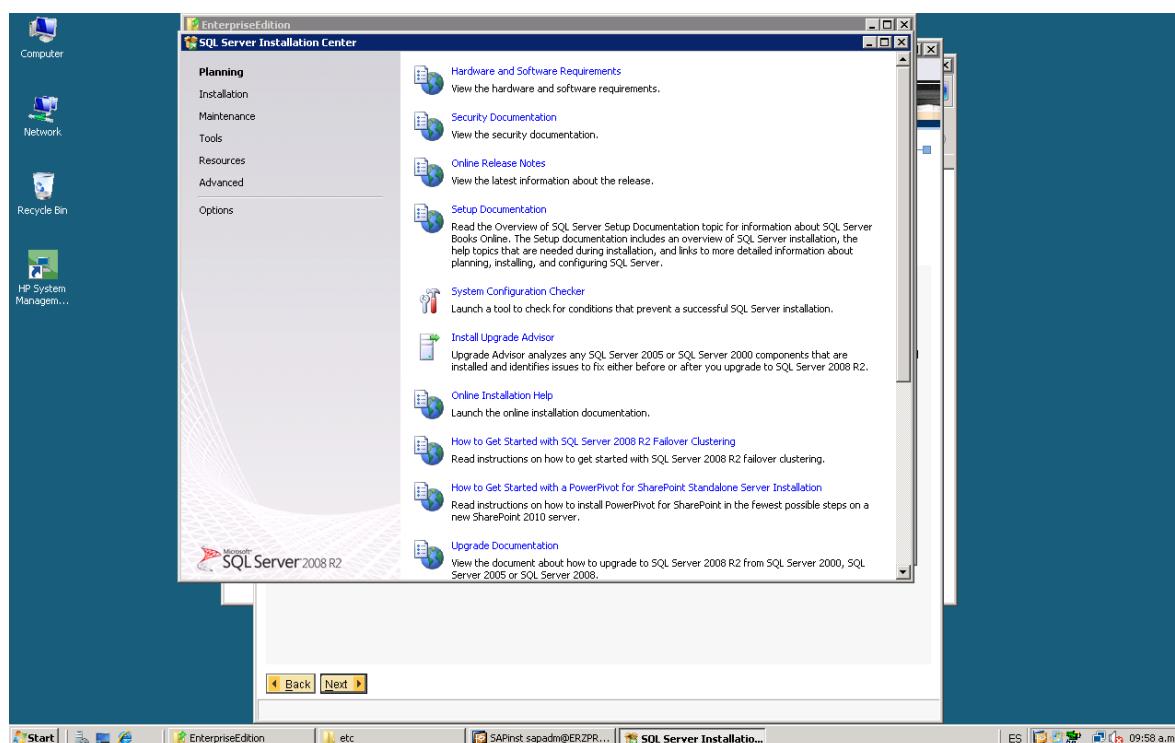
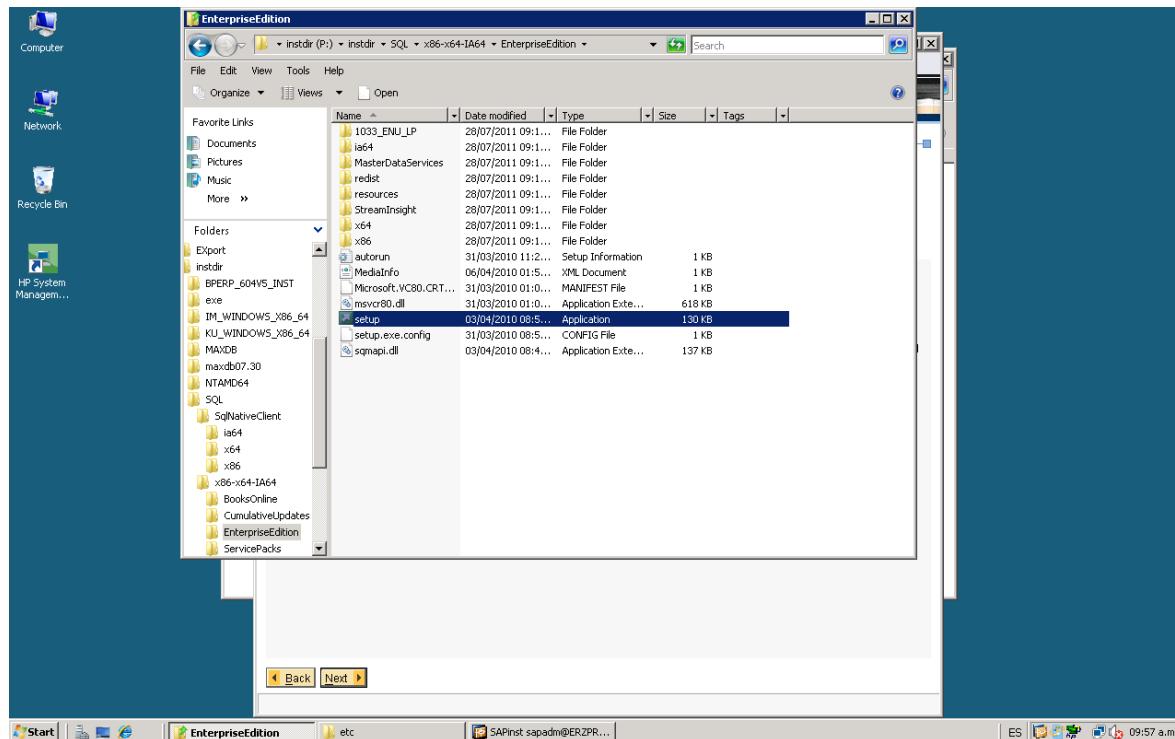
Window	Input
<i>Microsoft SQL Server 2008 (R2) Setup</i>	The Microsoft SQL Server 2008 (R2) setup requires Windows prerequisites, such as the Microsoft .NET Framework and an updated Windows installer. 1. To install the required Windows prerequisites, choose <i>OK</i> . 2. Reboot your system, if required.
<i>SQL Server Installation Center</i>	Use the <i>System Configuration Checker</i> to check your system configuration and, if required, set up the required configuration. For more information about the required system configuration for the software components, check the <i>SQL Server Books Online</i> .
<i>SQL Server Installation Center</i>	1. Choose <i>Installation</i> . 2. Select <i>New SQL Server stand-alone Installation or add features to an existing installation</i> .
<i>Setup Support Rules</i>	If there are no failed operations or warnings, choose <i>OK</i> . Otherwise, first check the warnings.
<i>SQL Server 2008 R2 only: Feature Role</i>	Select <i>SQL Server Feature installation</i> and choose <i>Next</i> .
<i>Product Key</i>	If this window appears, enter the product key.
<i>License Terms</i>	Accept the Microsoft software license terms and choose <i>Next</i> .
<i>Setup Support Files</i>	Choose <i>Install</i> .
<i>Setup Support Rules</i>	If there are no failed operations or warnings, choose <i>Next</i> . Otherwise, first check the warnings.
<i>Feature Selection</i>	1. Select all features, except: <ul style="list-style-type: none"> ■ <i>SQL Server Replication</i> ■ <i>Analysis Services</i> ■ <i>Reporting Services</i> ■ <i>Integration Services</i> ■ <i>Microsoft Sync Framework</i>

Window	Input
<i>Instance Configuration</i>	2. Choose <i>Next</i> . 1. Select the instance type you want to install. Since the configuration of SQL Server is easier to handle, we recommend that you install a <i>Default instance</i> . If you want to install a <i>Named instance</i> , enter the <SAPSID> in the <i>Named instance</i> field. 2. Leave the <i>Instance ID</i> and <i>Instance root directory</i> field to the default values. 3. Choose <i>Next</i> .
<i>Disk Space Requirements</i>	Choose <i>Next</i> .
<i>Server Configuration</i>	1. In the <i>Service Accounts</i> tab, perform the following steps: 1. Enter the <i>Local System accounts</i> For the English Windows version, the user name starts with <i>NT Authority</i> , for example <i>NT Authority\System</i> . 2. Set the <i>Startup Type</i> for the SQL Server Agent to <i>Automatic</i> . 2. In the <i>Collation</i> tab, for the <i>Database Engine</i> , set the collation to <i>SQL_Latin1_General_CI_AS</i> . To change the collation, use the <i>Customize</i> field to change the collation. 3. When you have made all entries, choose <i>Next</i> .

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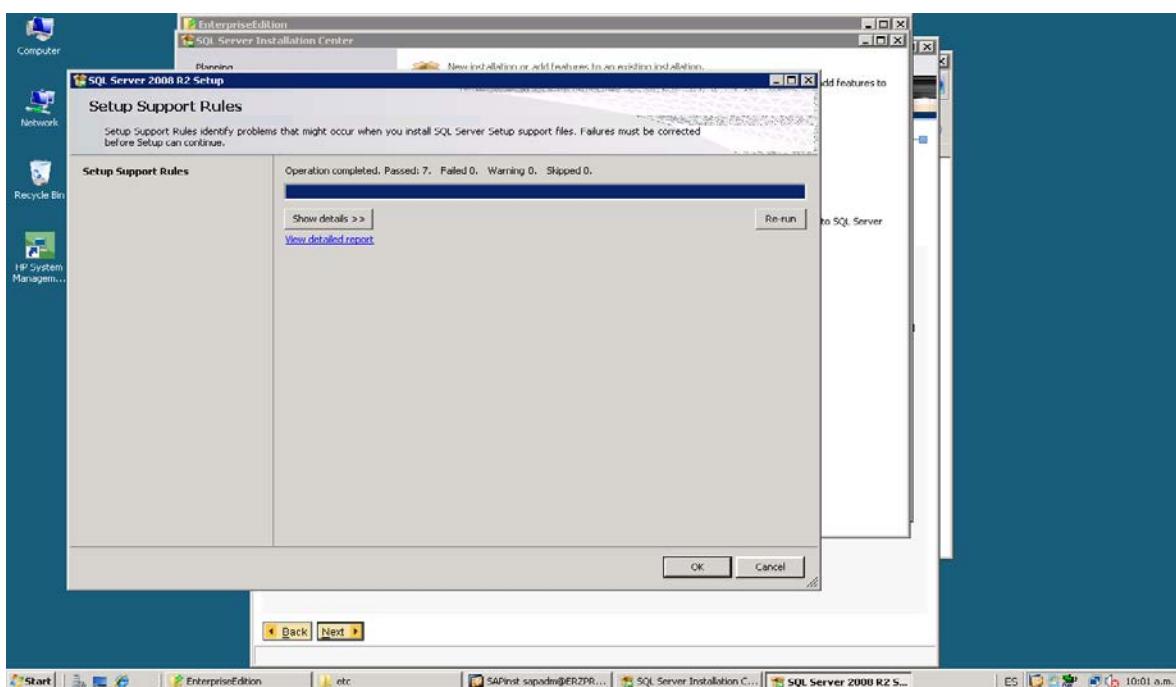
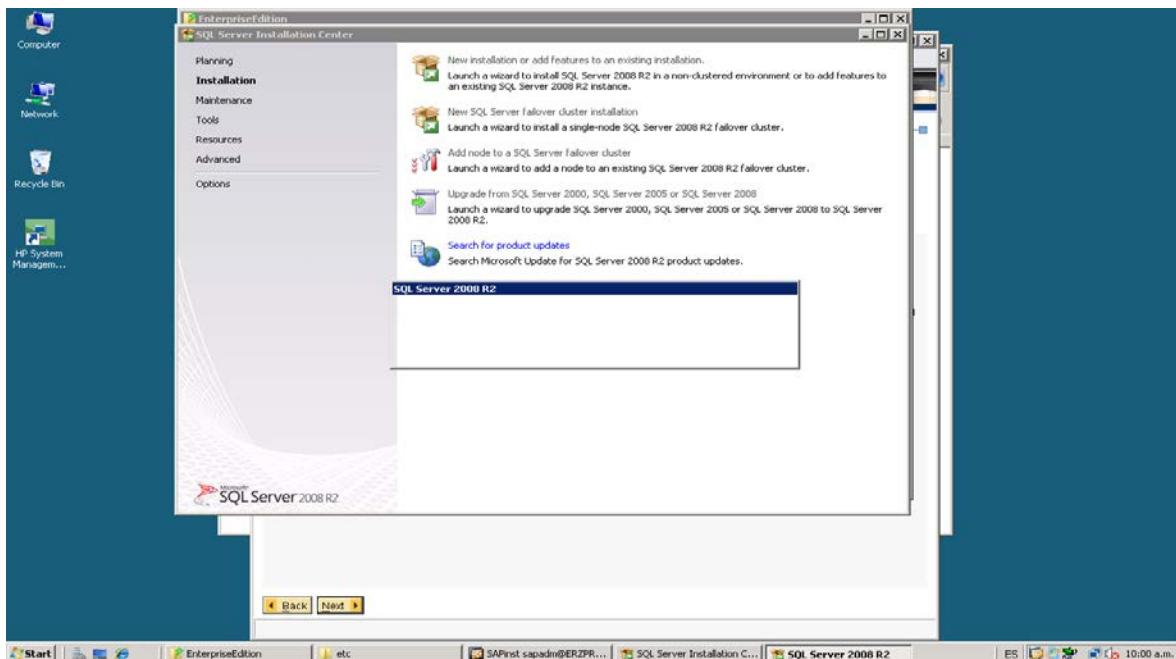
<i>Database Engine Configuration</i>	<ol style="list-style-type: none"> 1. In the <i>Account Provisioning</i> tab, select one of the following authentication modes: <ul style="list-style-type: none"> ■ <i>Windows Authentication Mode</i> We recommend that you use this mode for an ABAP system. With this mode the <i>sa</i> login is created, but cannot be used. ■ <i>Mixed Mode (Windows authentication and SQL Server authentication)</i> This mode is required for a Java or ABAP+Java system. If you select this mode, you have to set the password for the <i>sa</i> login. SAPinst automatically changes the authentication mode into <i>Mixed Mode</i> when installing a Java system. 2. If you use <i>Mixed Mode</i>, enter and confirm the password for the built-in SQL Server system administrator account. The password for the <i>sa</i> login must comply with the Windows password policy. 3. To specify an SQL Server administrator, choose <i>Add</i>. In the <i>Select Users or Groups</i> window, choose one Windows account as local system administrator. SAP strongly recommends that you enter <i>Administrators</i> in the <i>Select Users or Groups</i> window, to add the <i>BUILTIN\Administrators (Administrators)</i> users. 4. Choose <i>Next</i>.
<i>Error Reporting</i>	Choose <i>Next</i> .
<i>Installation Rules</i>	If there are no failed operations or warnings, choose <i>Next</i> . Otherwise, first check the warnings.
<i>Ready to Install</i>	Select <i>Install</i> .
<i>Installation Progress</i>	You can monitor the installation progress of selected features in this screen.

INSTRUCTIVO PARA LA REALIZACIÓN DE COPIA HETEROGENEA DESDE BASE DE DATOS MAXDB A SQL

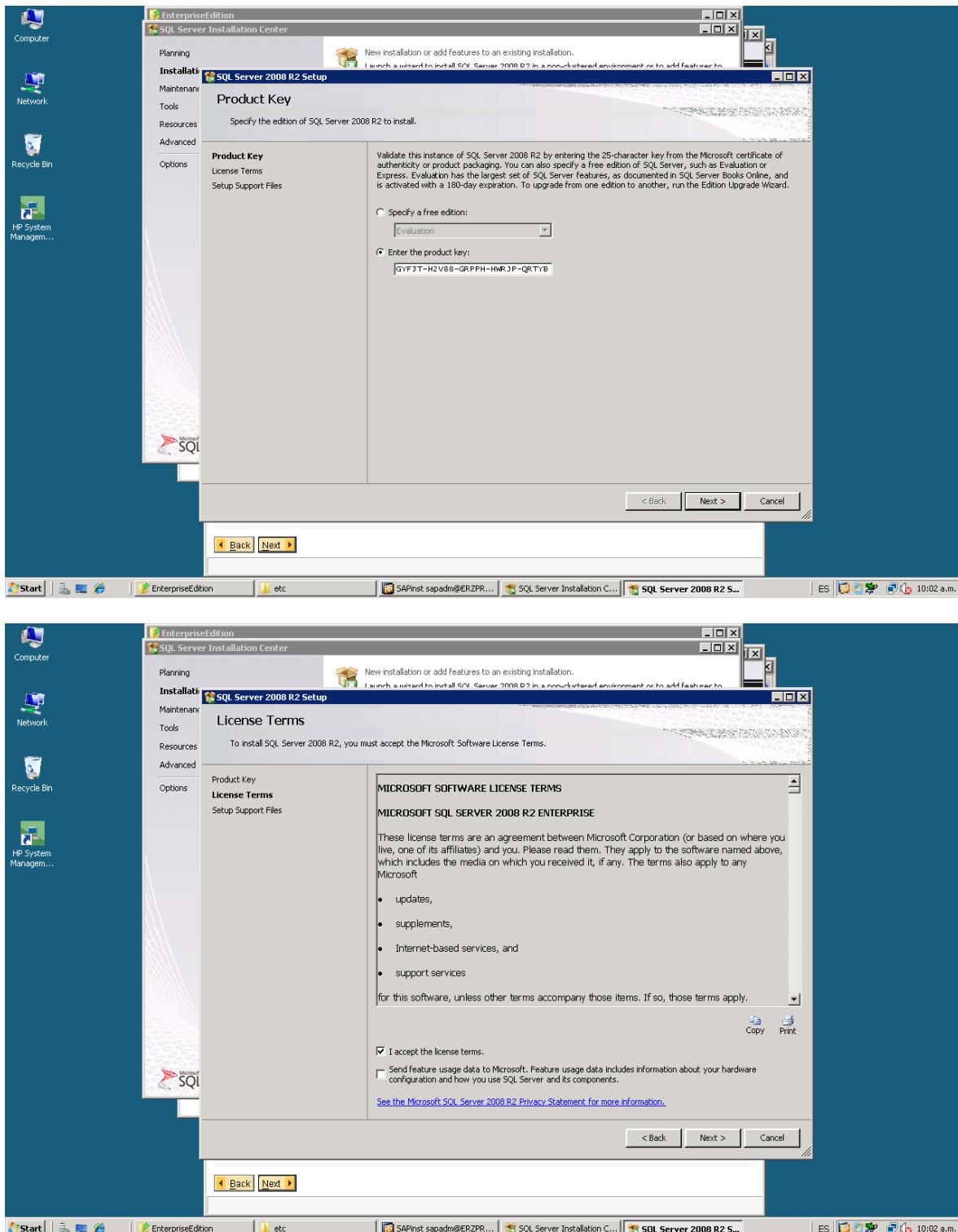


Darle donde dice installation

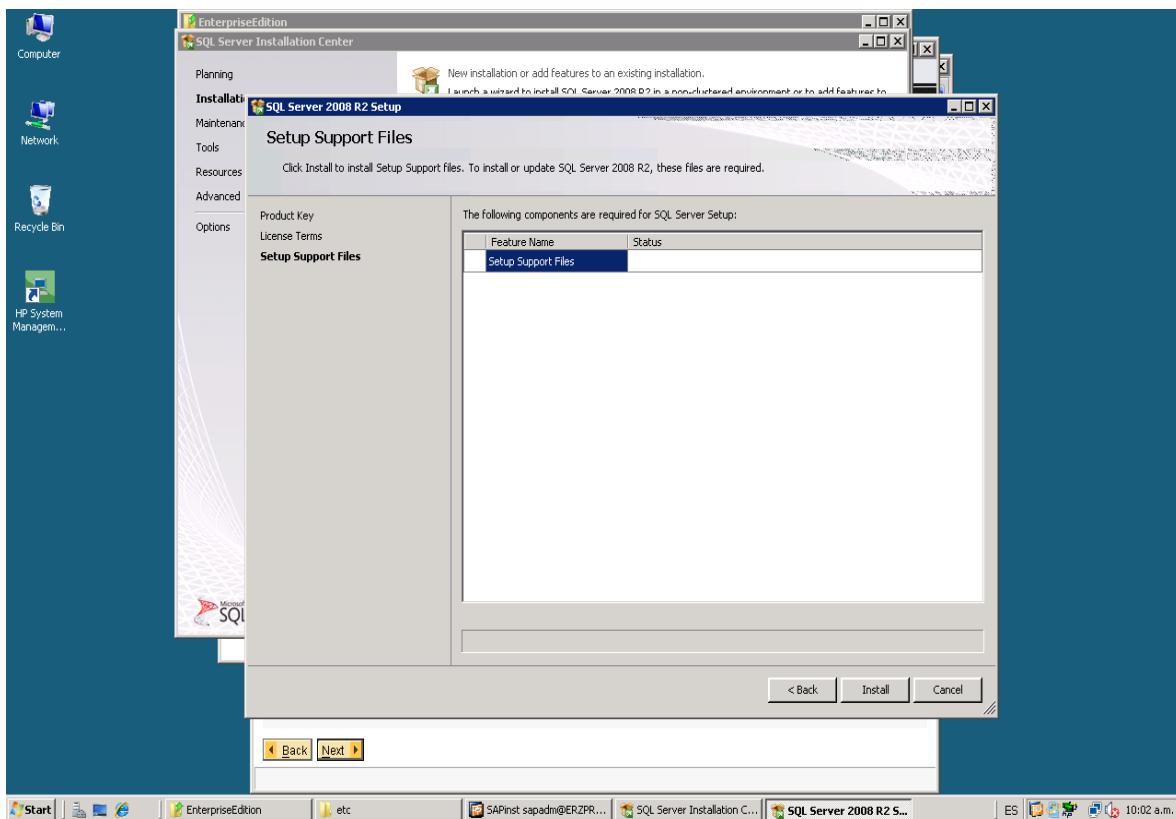
- Luego donde dice New SQL Server stand-alone Installation or add features to an existing installation.



INSTRUCTIVO PARA LA REALIZACIÓN DE COPIA HETEROGENEA DESDE BASE DE DATOS MAXDB A SQL

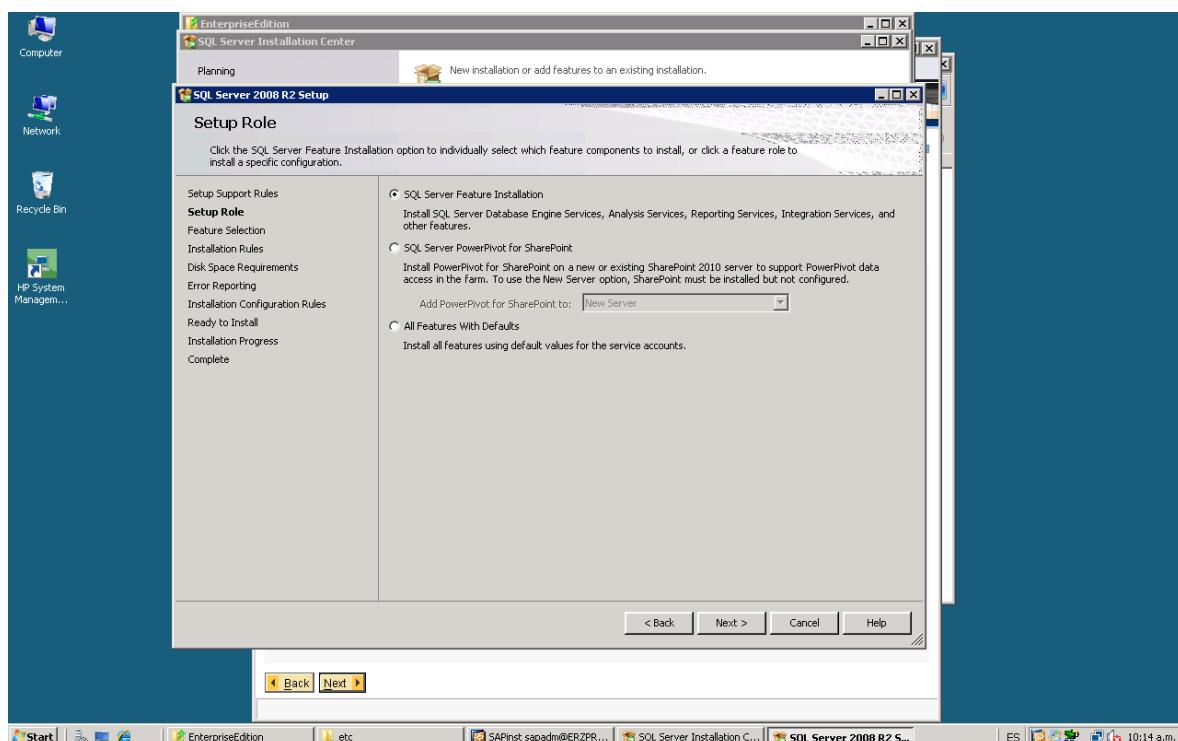
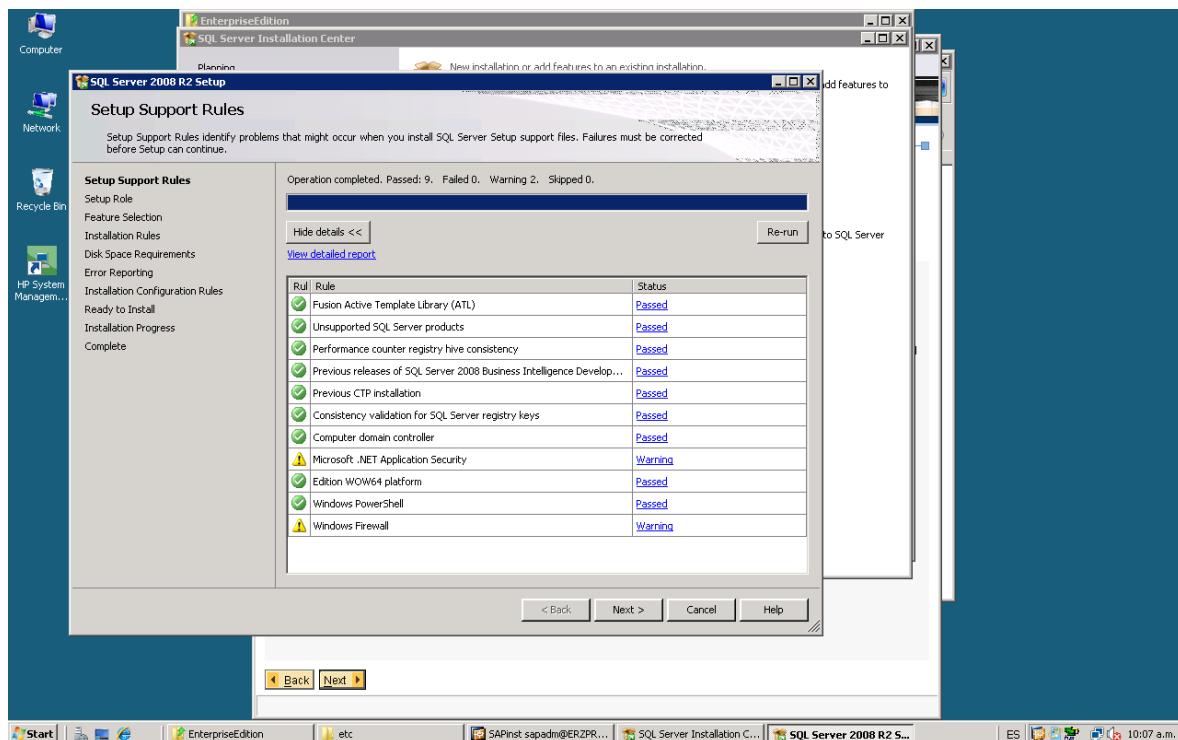


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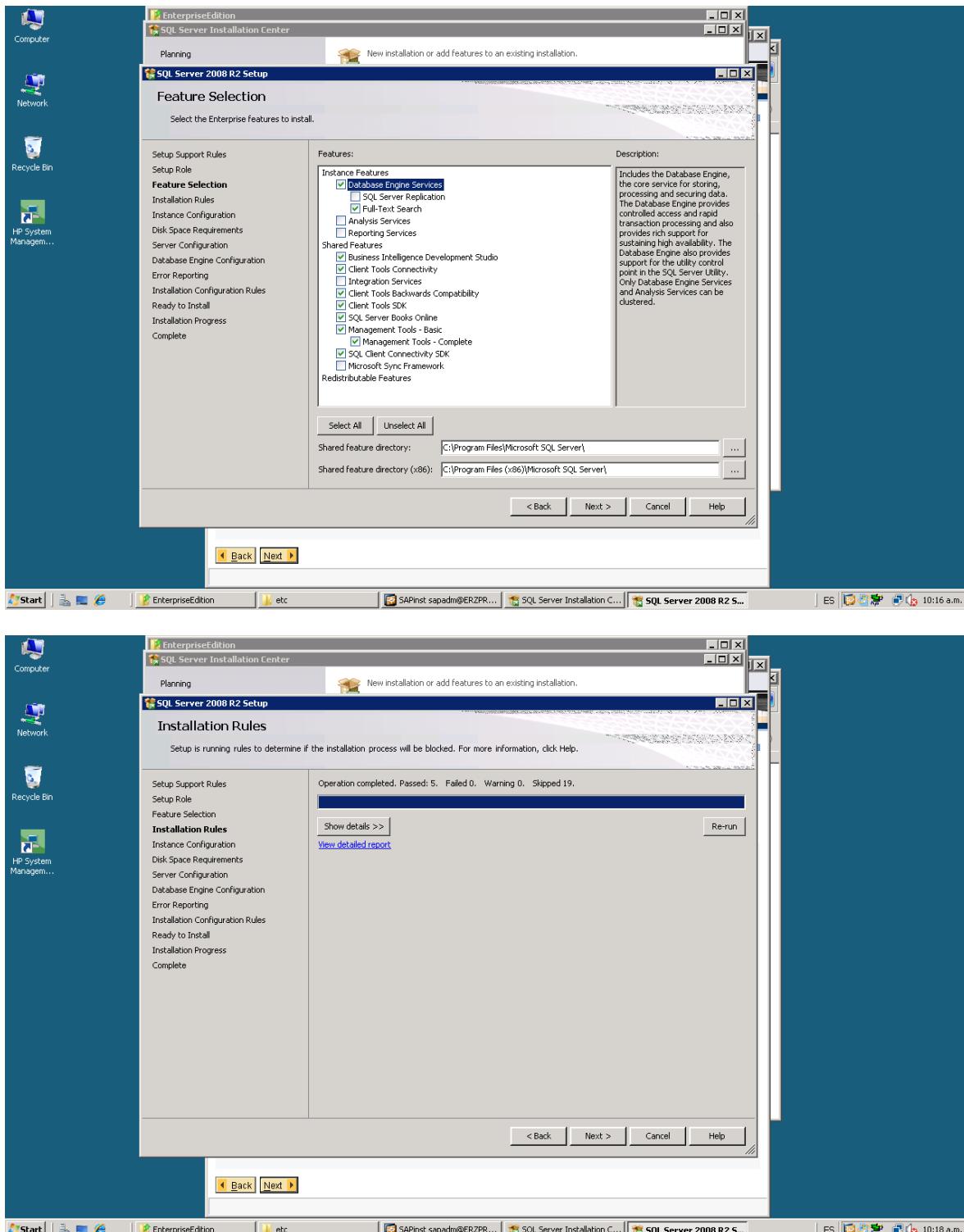


INSTRUCTIVO PARA LA REALIZACIÓN DE COPIA HETEROGENEA DESDE BASE DE DATOS MAXDB A SQL

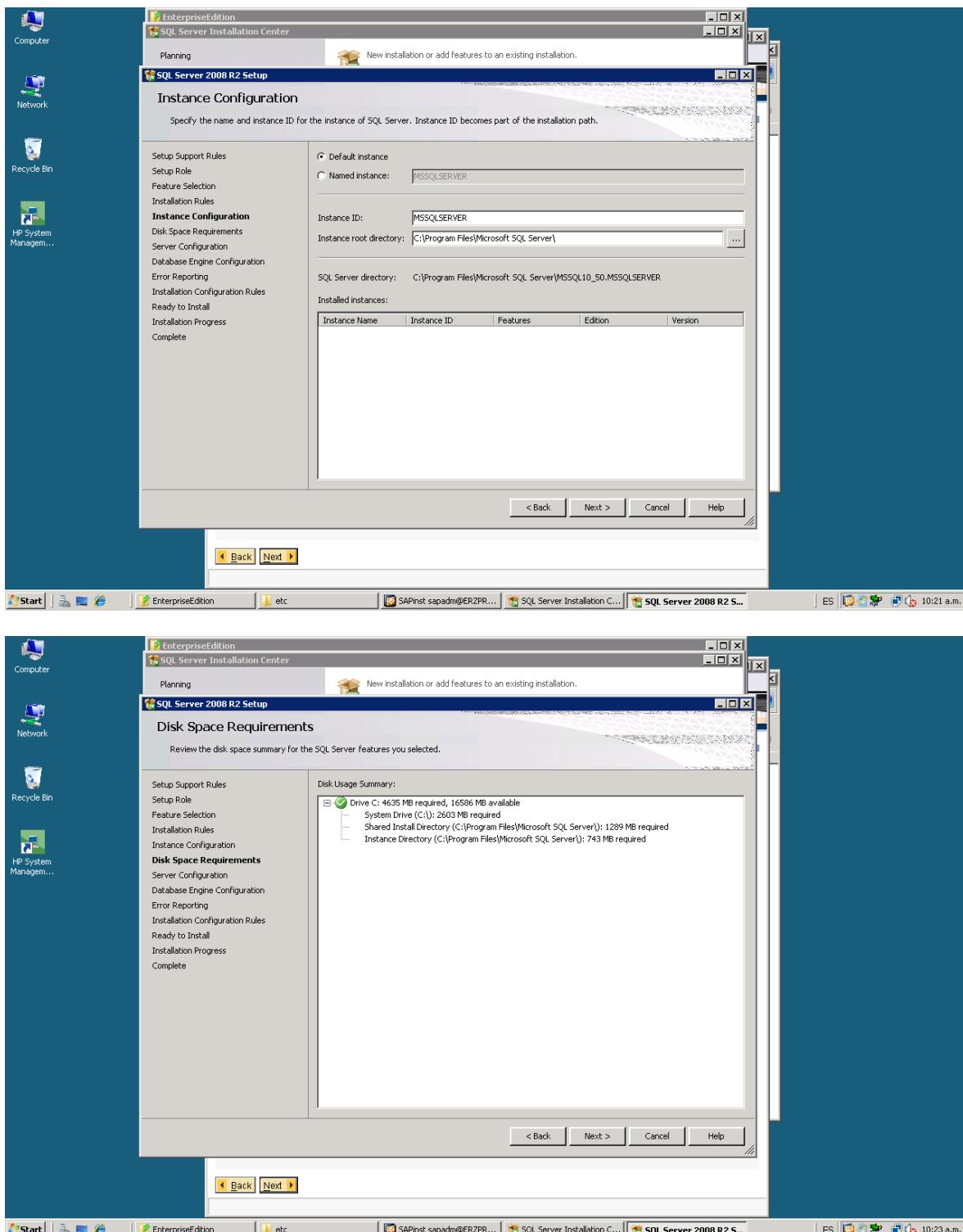
- Ignorar los Warning presentados. (En este Caso)



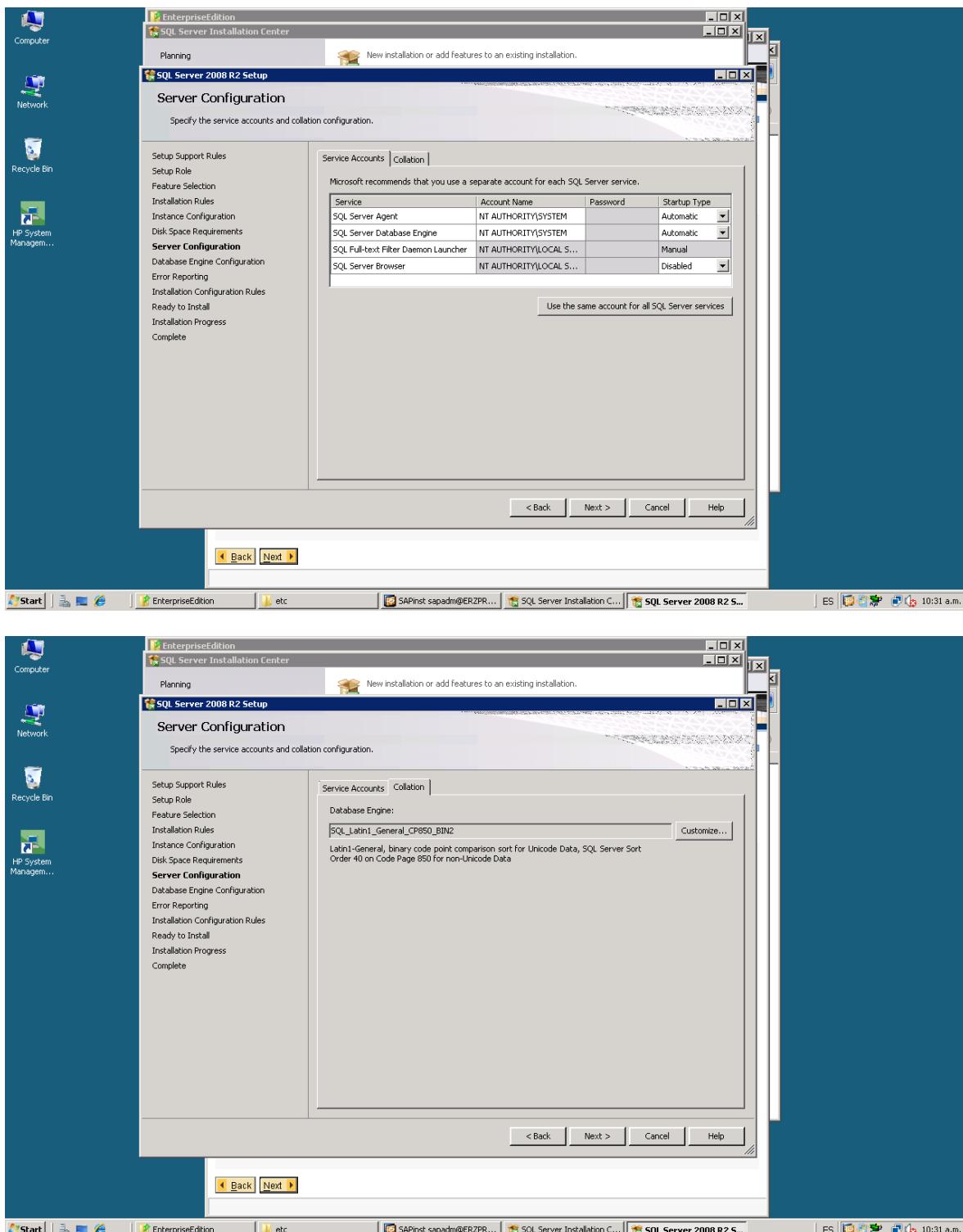
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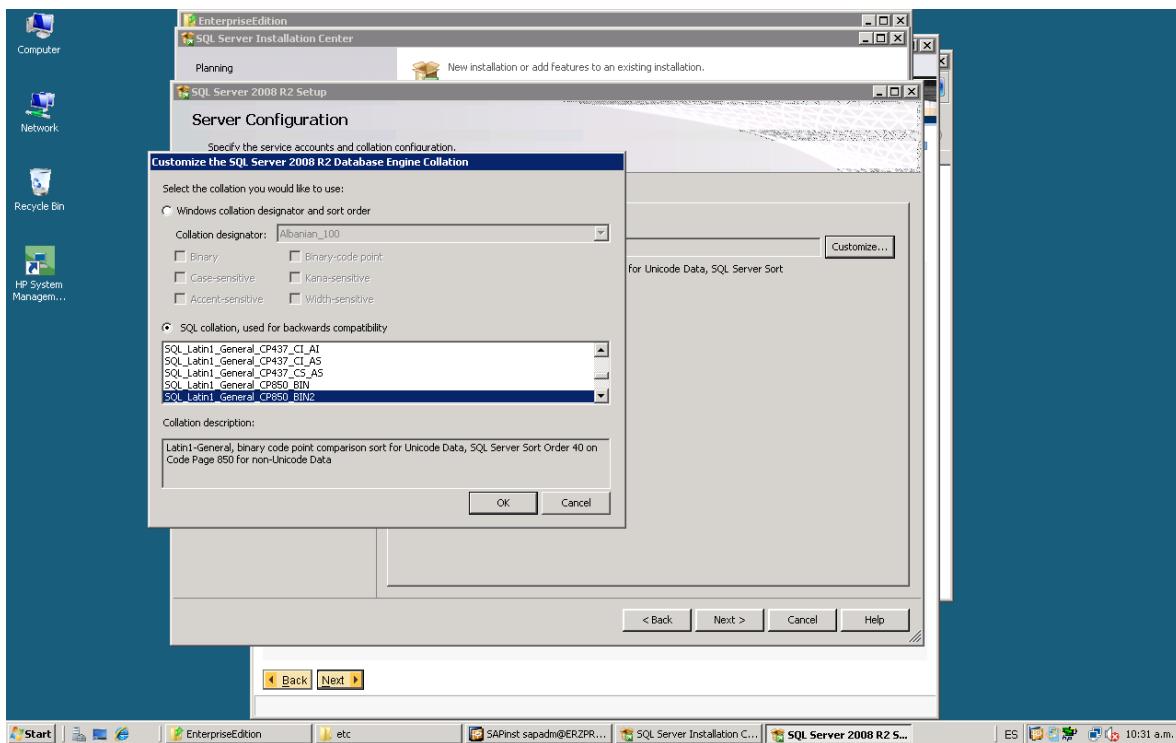
INSTRUCTIVO PARA LA REALIZACIÓN DE COPIA HETEROGENEA DESDE BASE DE DATOS MAXDB A SQL



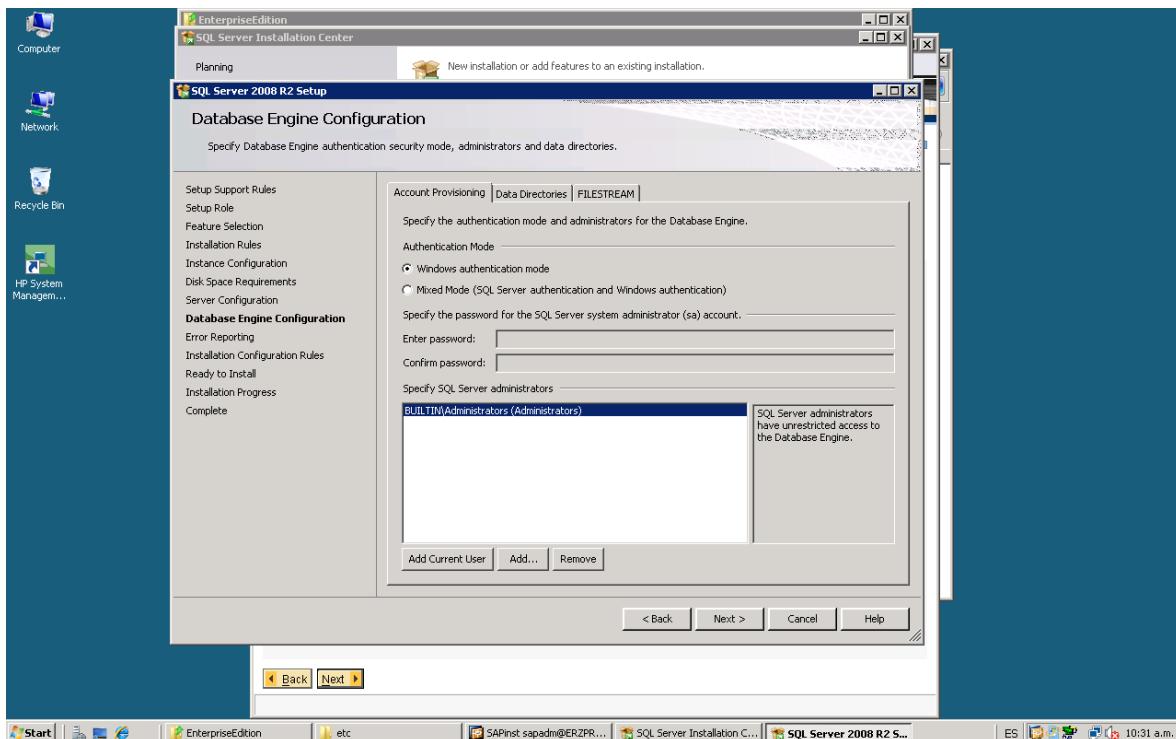
INSTRUCTIVO PARA LA REALIZACIÓN DE COPIA HETEROGENEA DESDE BASE DE DATOS MAXDB A SQL



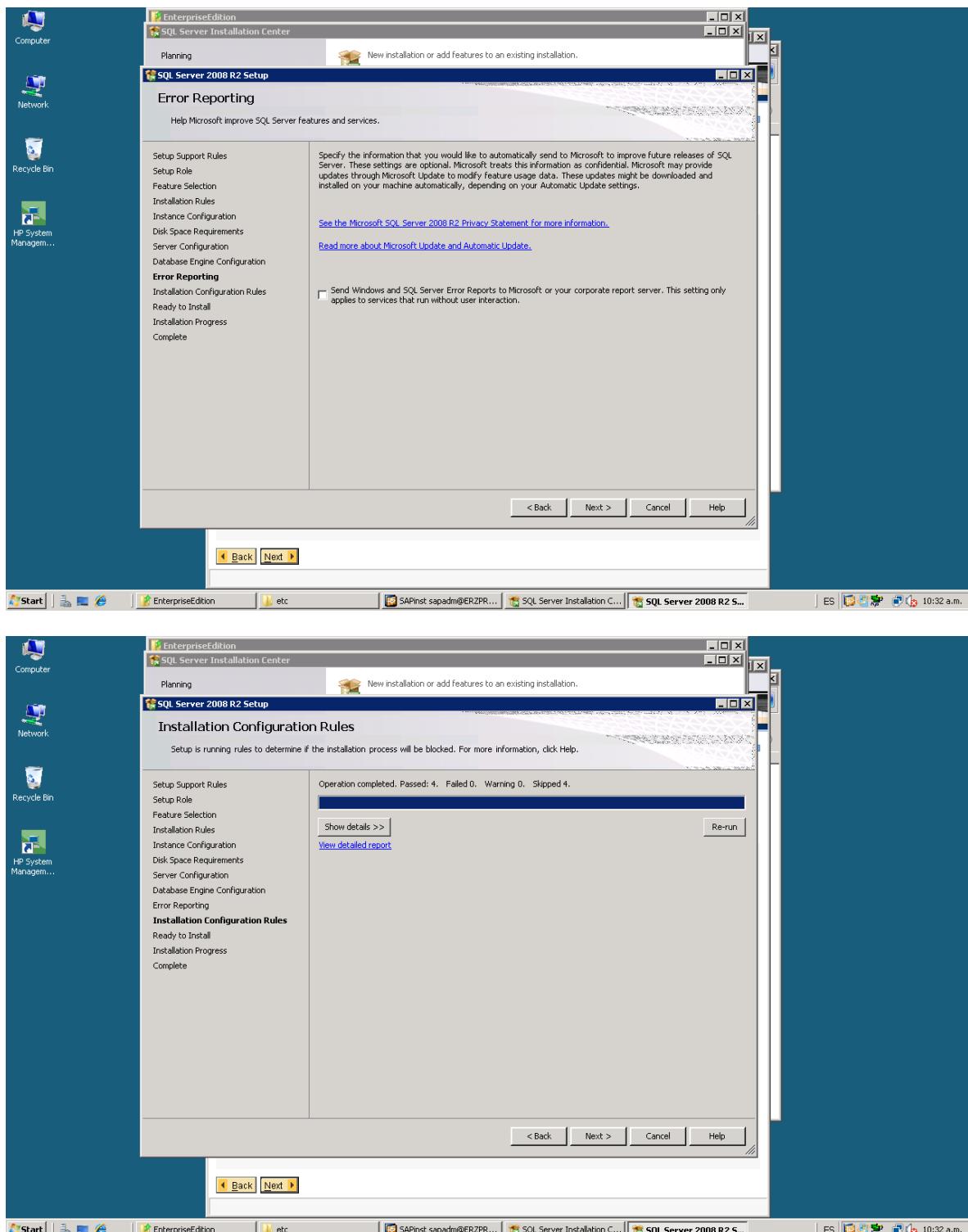
INSTRUCTIVO PARA LA REALIZACIÓN DE COPIA HETEROGENEA DESDE BASE DE DATOS MAXDB A SQL



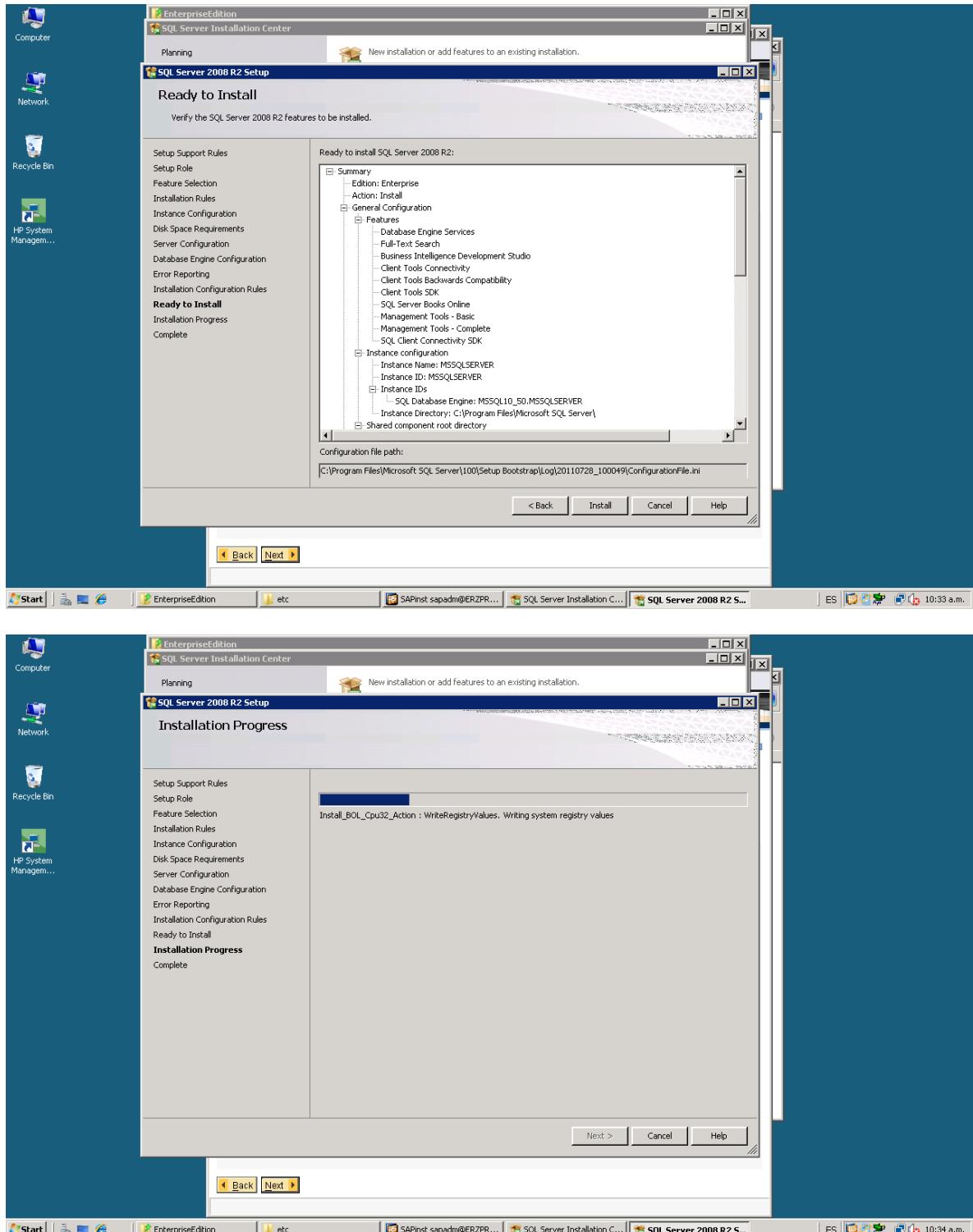
- En el caso de ser abap

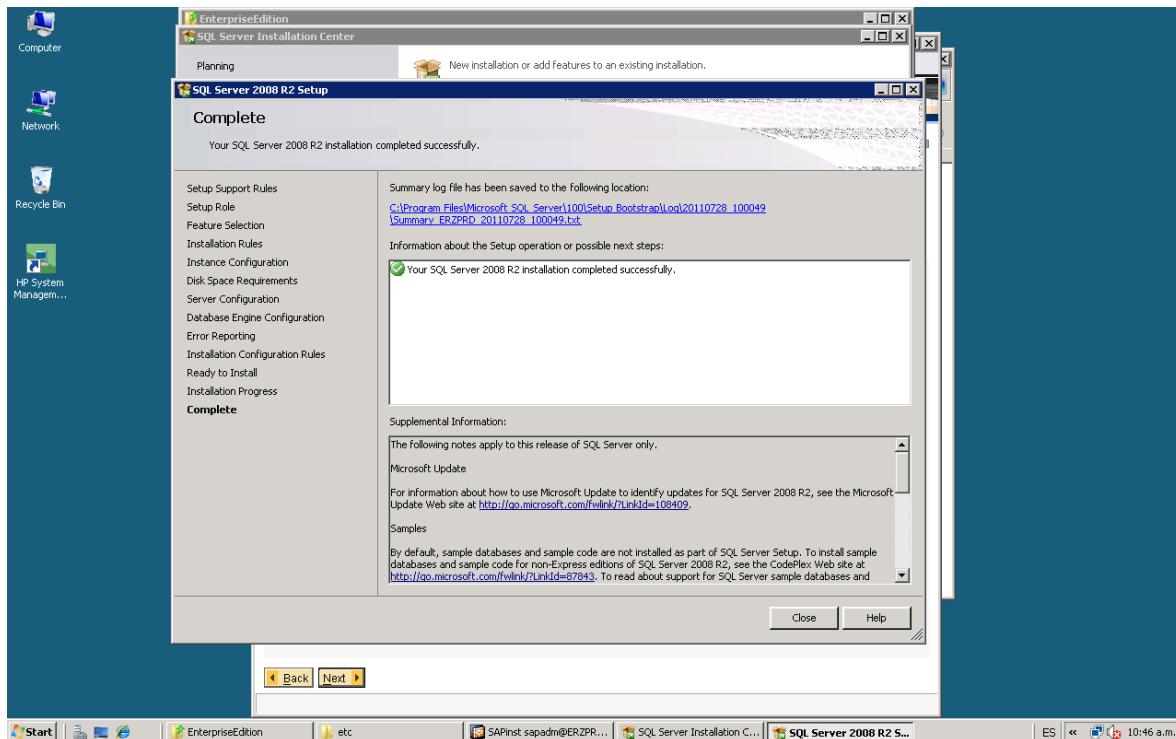


INSTRUCTIVO PARA LA REALIZACIÓN DE COPIA HETEROGENEA DESDE BASE DE DATOS MAXDB A SQL



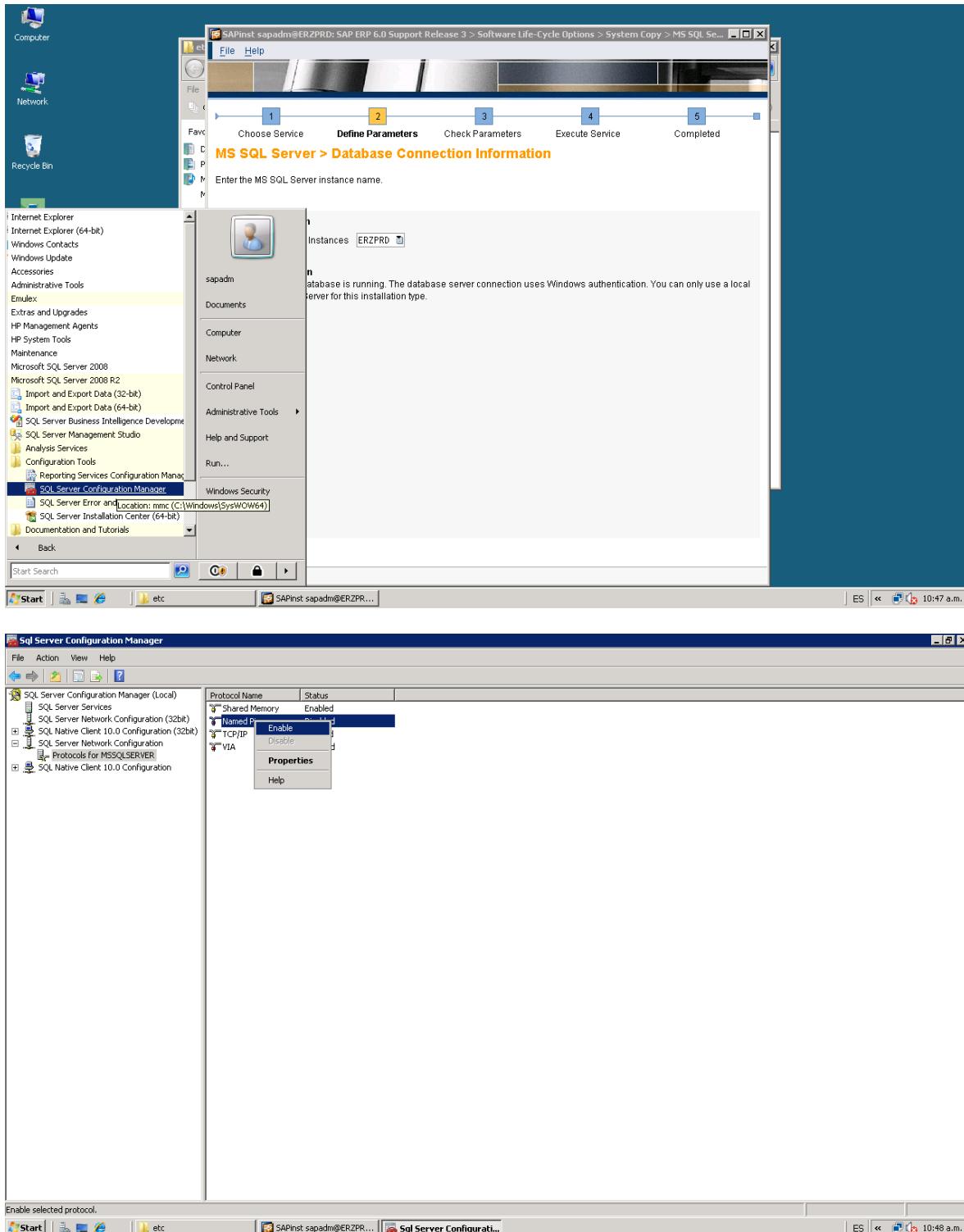
INSTRUCTIVO PARA LA REALIZACIÓN DE COPIA HETEROGENEA DESDE BASE DE DATOS MAXDB A SQL

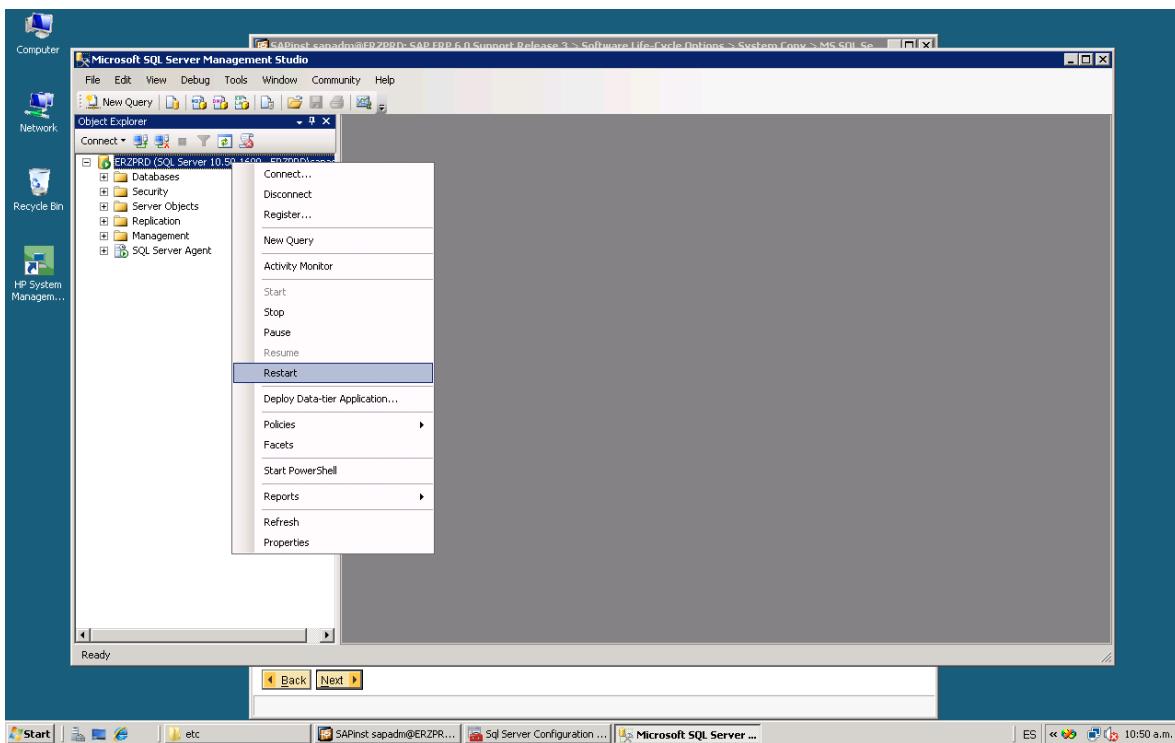




6. When you have finished the installation, enable the *Named Pipes* and *TCP/IP* protocol in the *SQL Server Configuration Manager* as follows:
 1. Choose **Start → All Programs → Microsoft SQL Server 2008 (R2) → Configuration Tools → SQL Server Configuration Manager**.
 2. Expand *SQL Server Network Configuration* and select one of the following:
 - For a **default** instance, select *Protocols for MSSQLServer*
 - For a **named** instance, select *Protocols for <SAPSID>*
 3. In the right-hand pane, under *Protocol Name*, right-click *Named Pipes* and *TCP/IP*, and select *Enable*.
7. Restart SQL Server.
8. Install the latest Service Pack and Cumulative Update. For more information, see SAP Note [62988](#).
9. Set the *configuration for the SQL Server Agent* [\[page 33\]](#).

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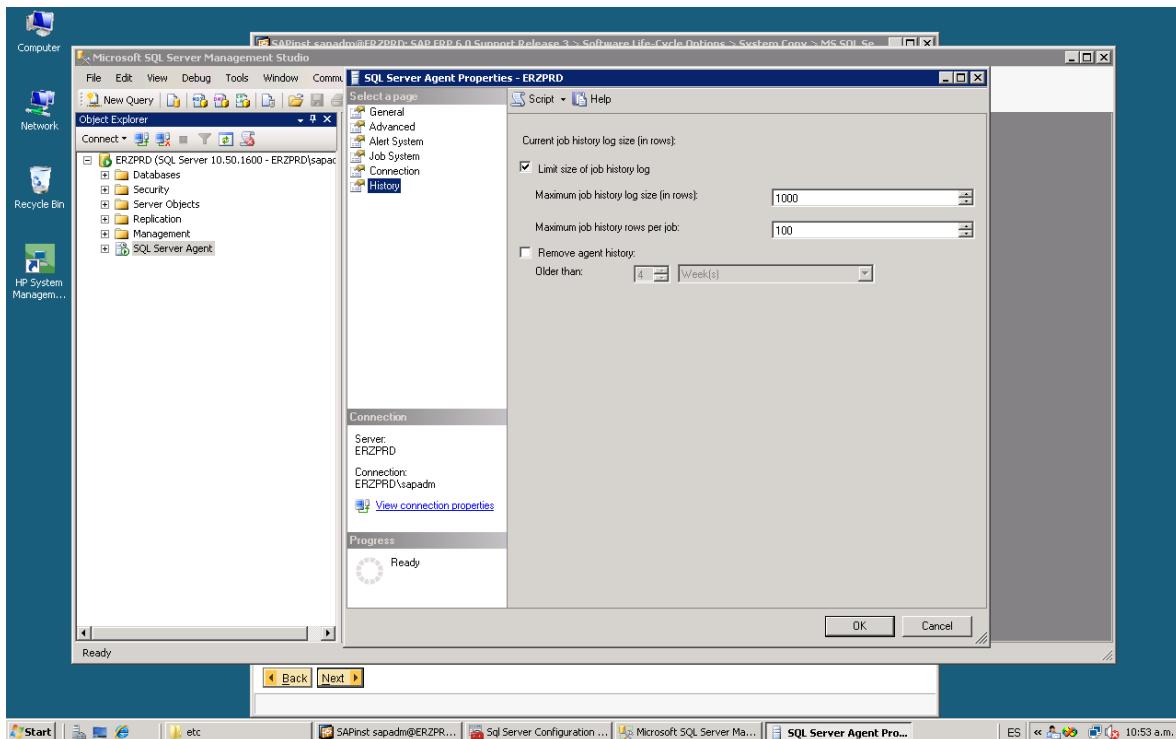


5 Setting the SQL Server Agent Configuration

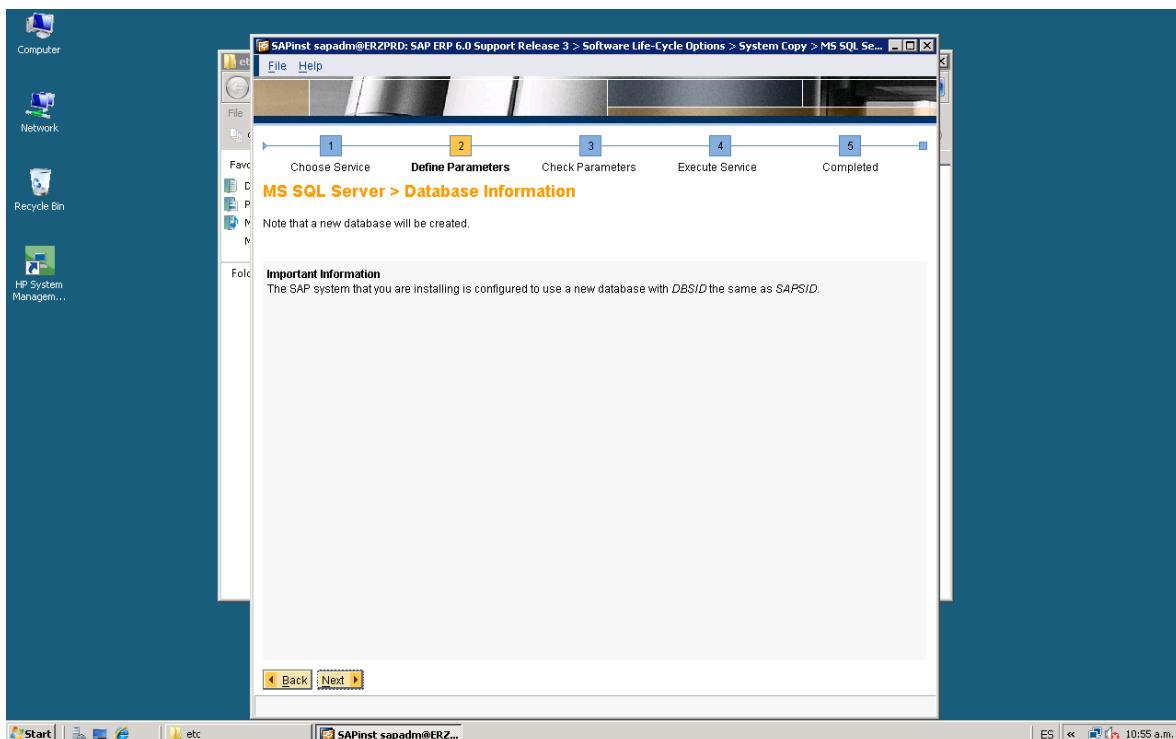
After you have installed or upgraded to SQL Server 2008 (R2), you must set the configuration for the *SQL Server Agent*.

Procedure

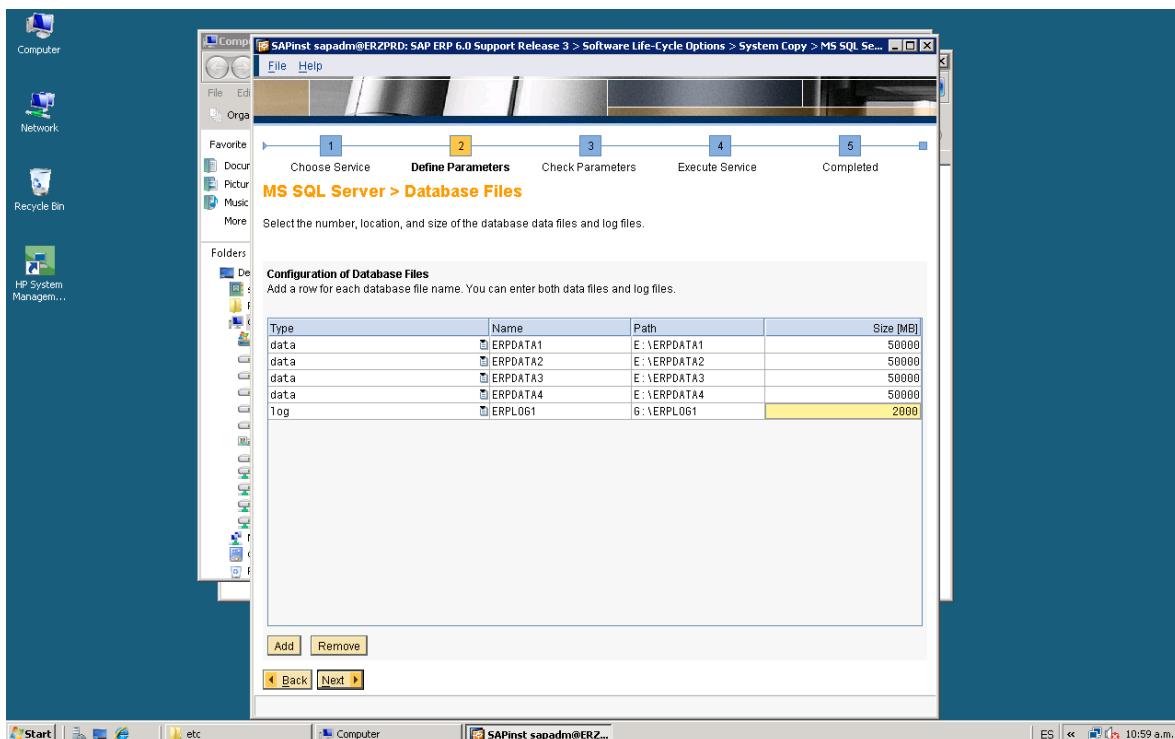
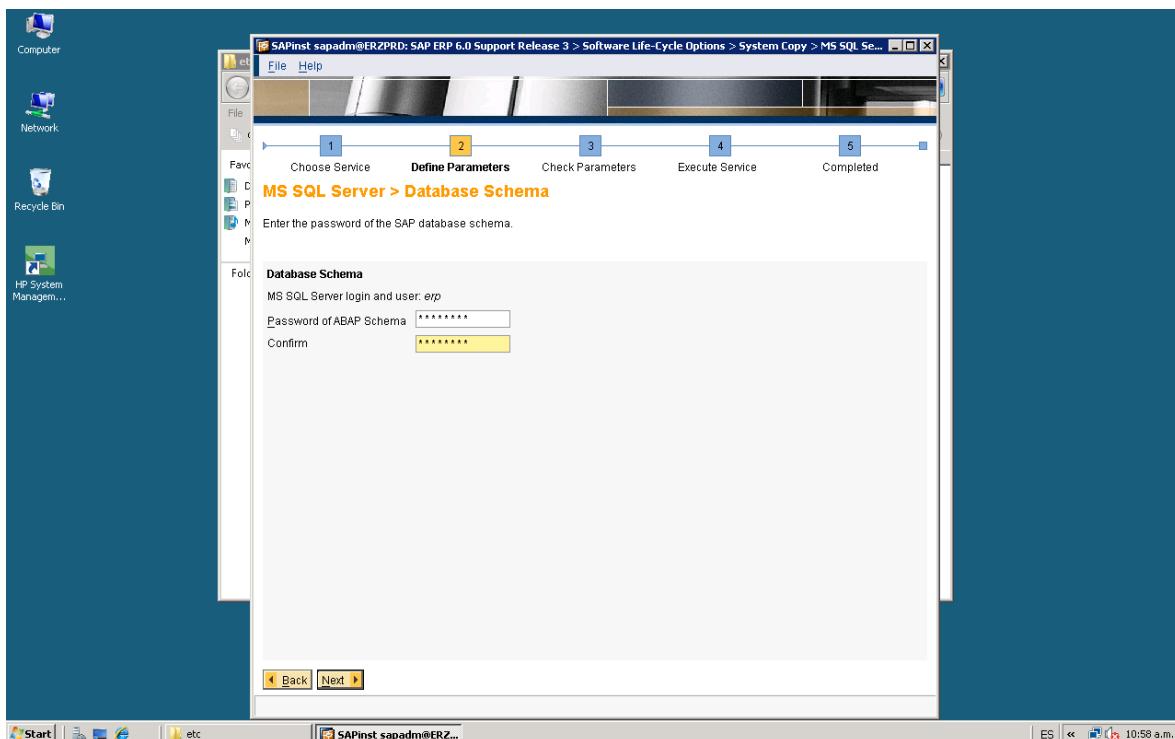
1. Start the *SQL Server 2008 (R2) Management Studio*.
2. Right-click *SQL Server Agent* and choose *Properties*.
3. Choose *History*.
4. Set the value for column *Maximum job History log size (in rows)* to 5000 (minimum).
5. Set the value for column *Maximum job history rows per job* to 1000 (minimum).
6. Check the column *Remove agent history* and set a value for this column.
7. To save the settings, choose *OK*.



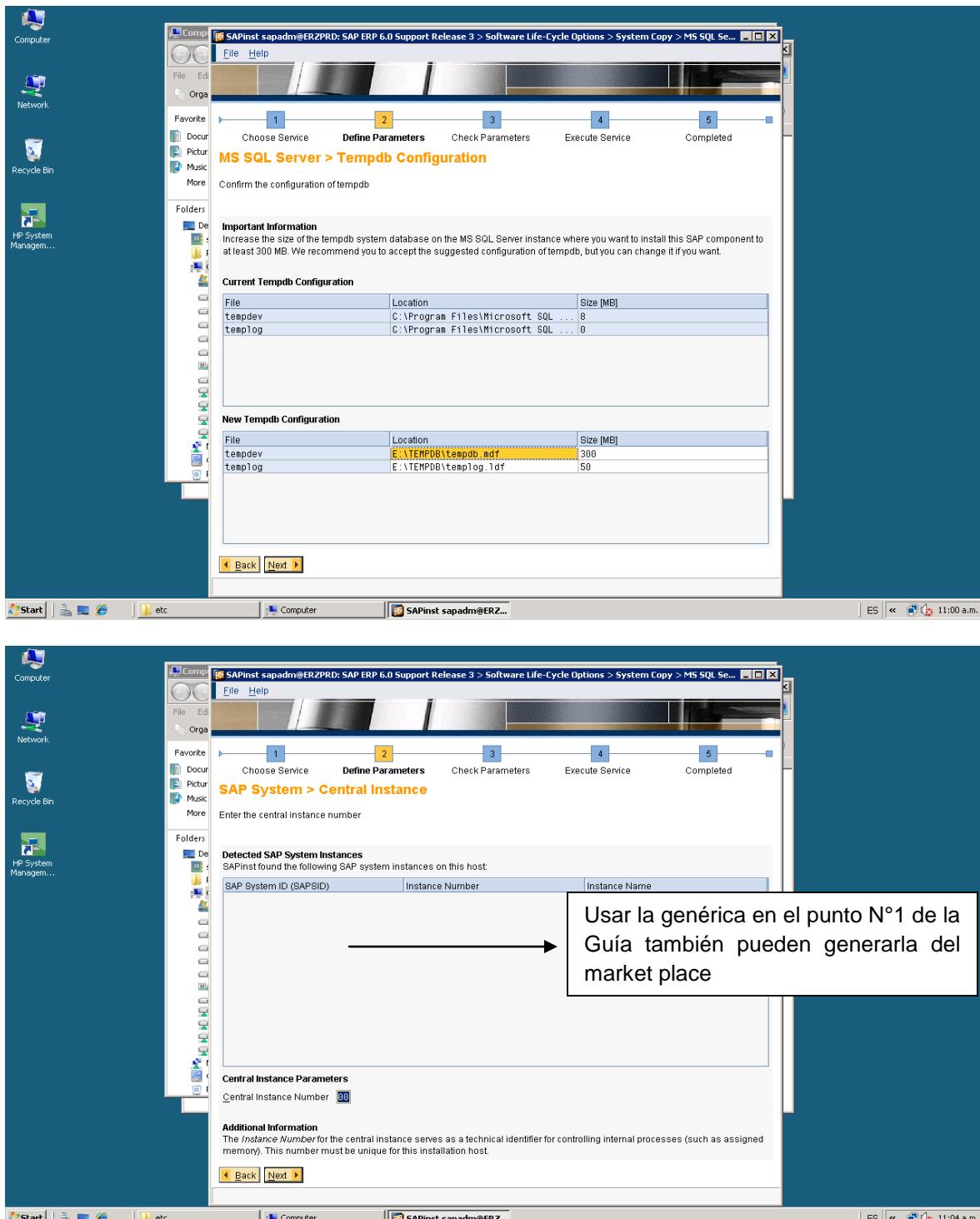
10. CONTINUAR CON EL PROCESO DE IMPORT



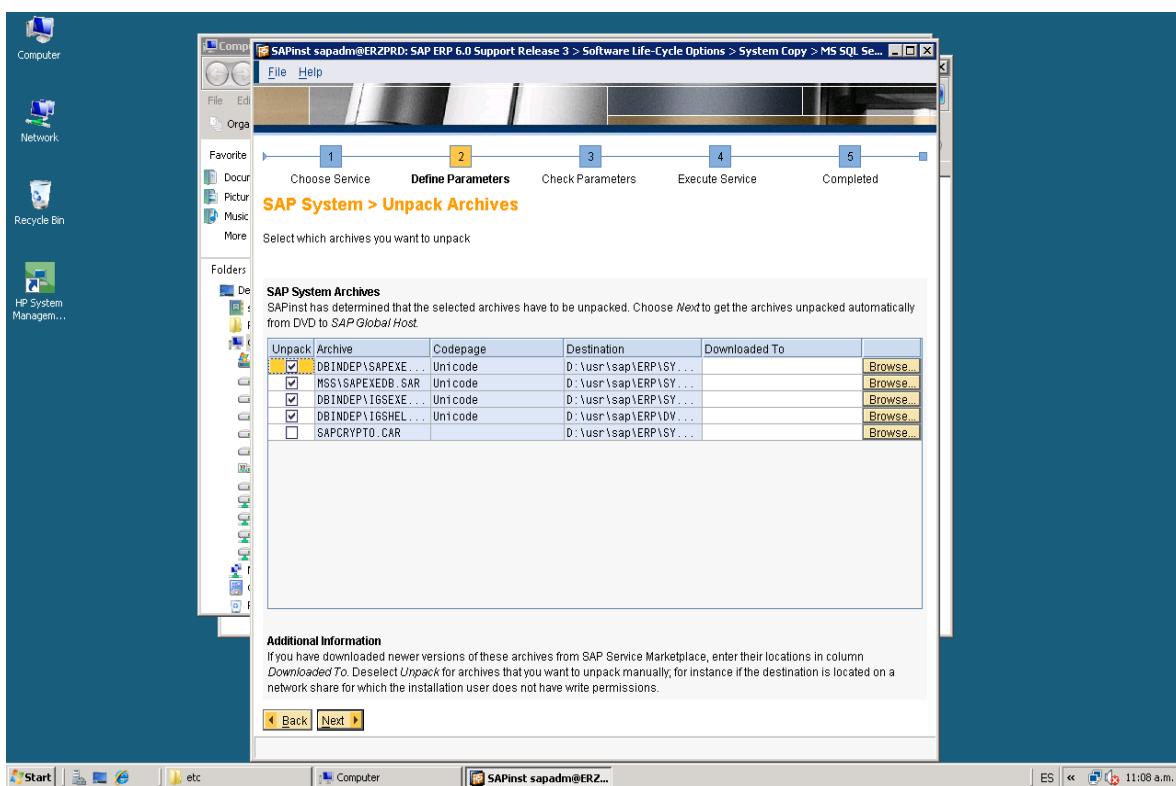
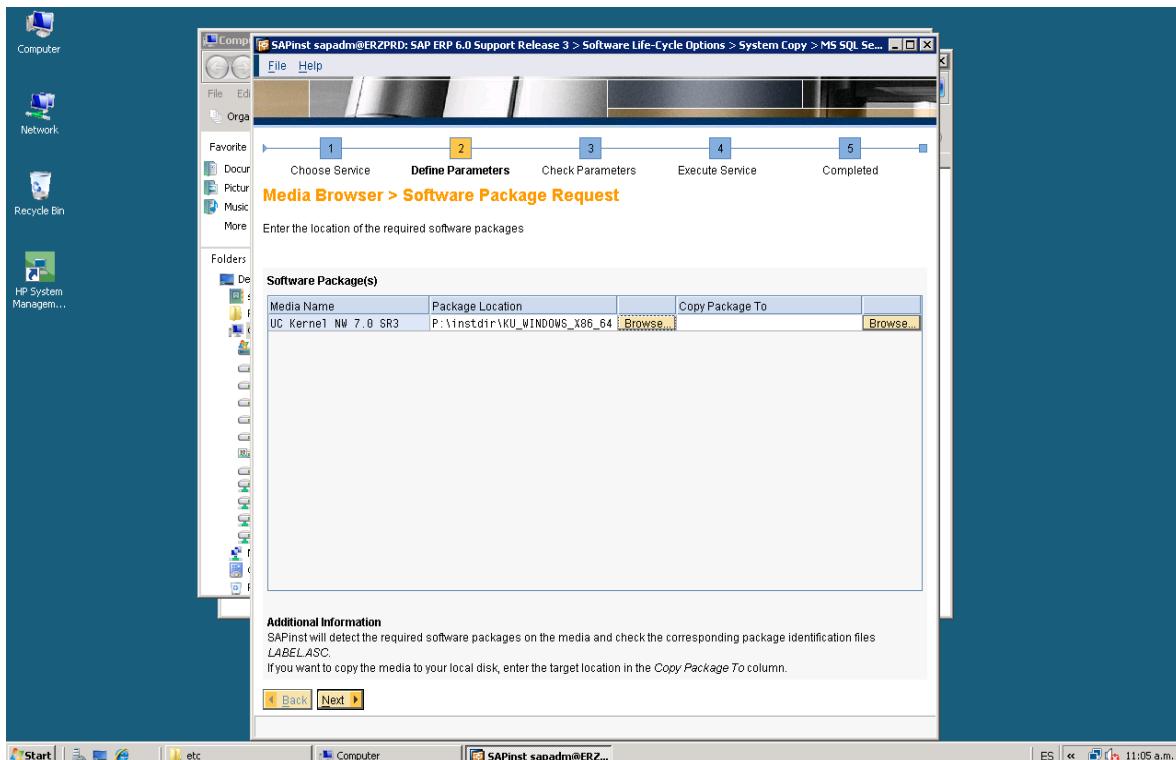
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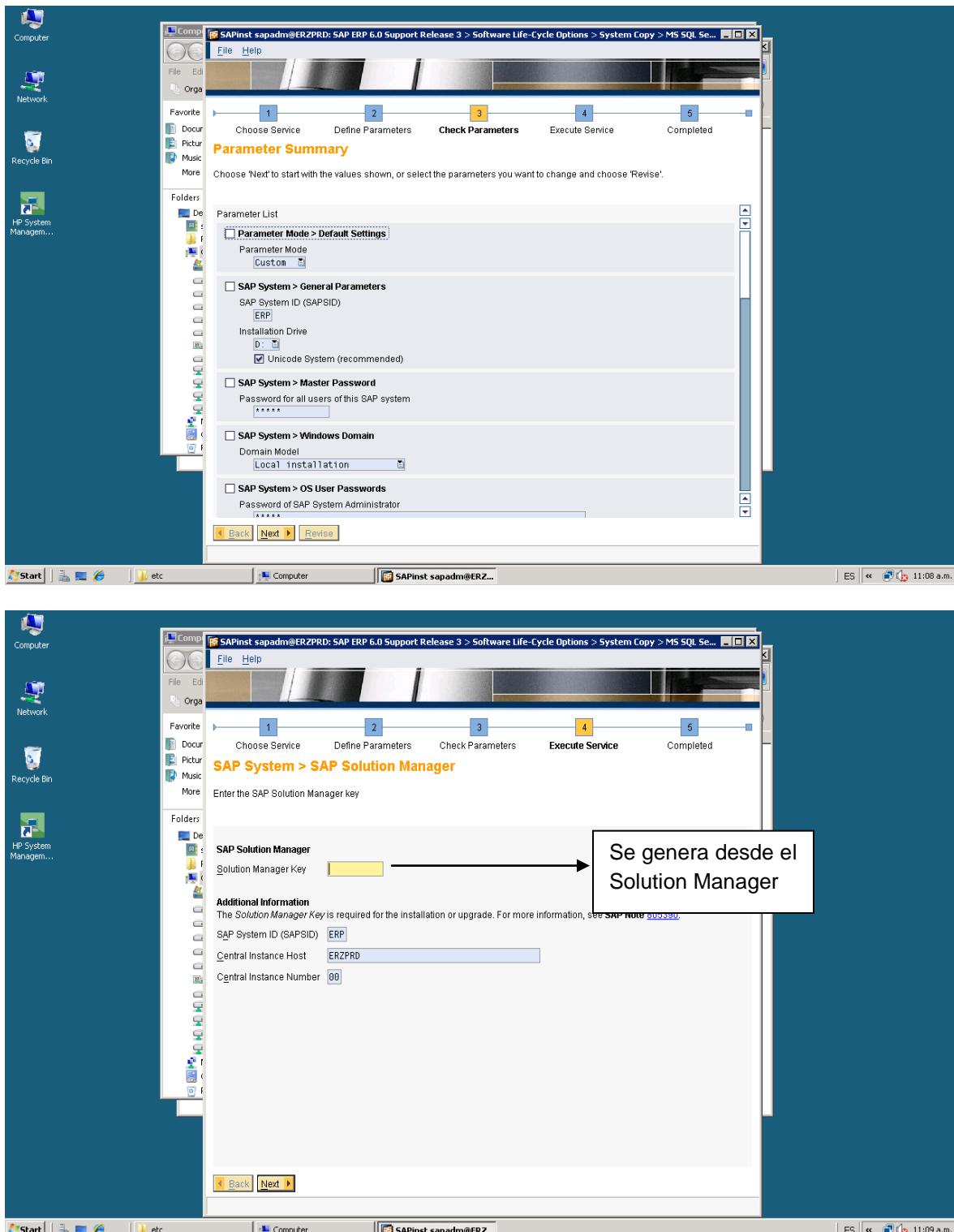
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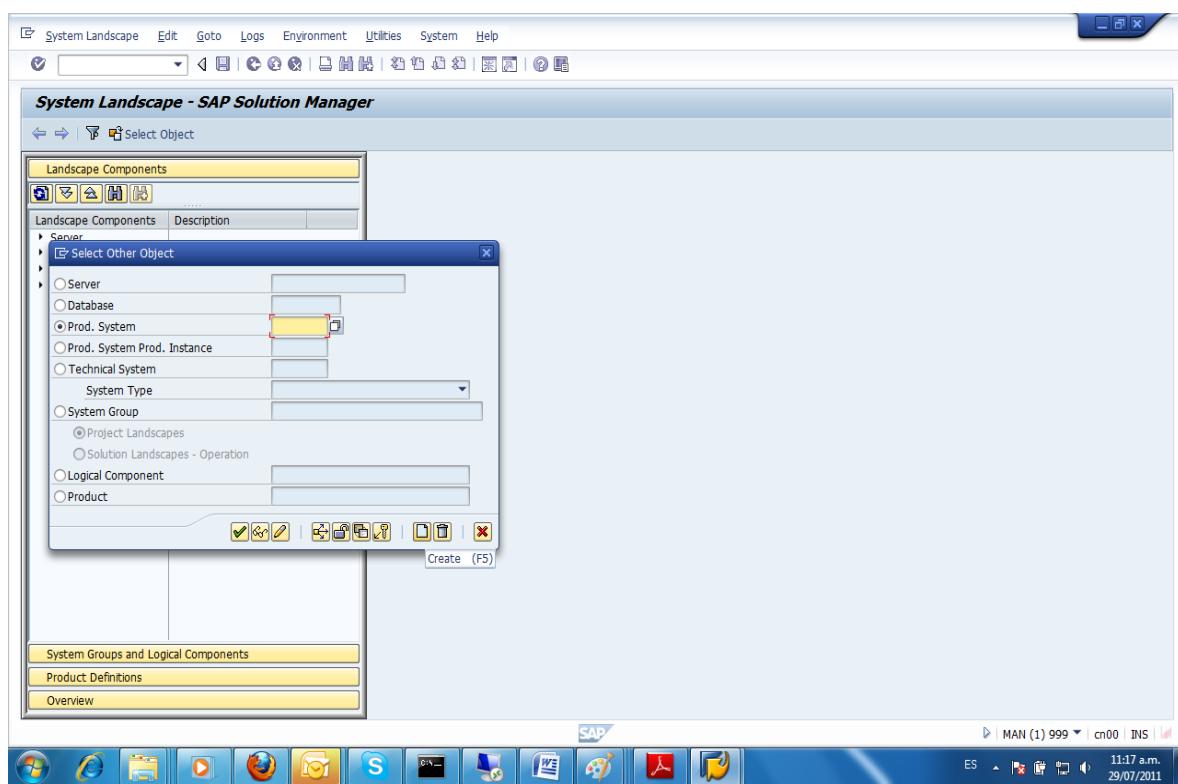
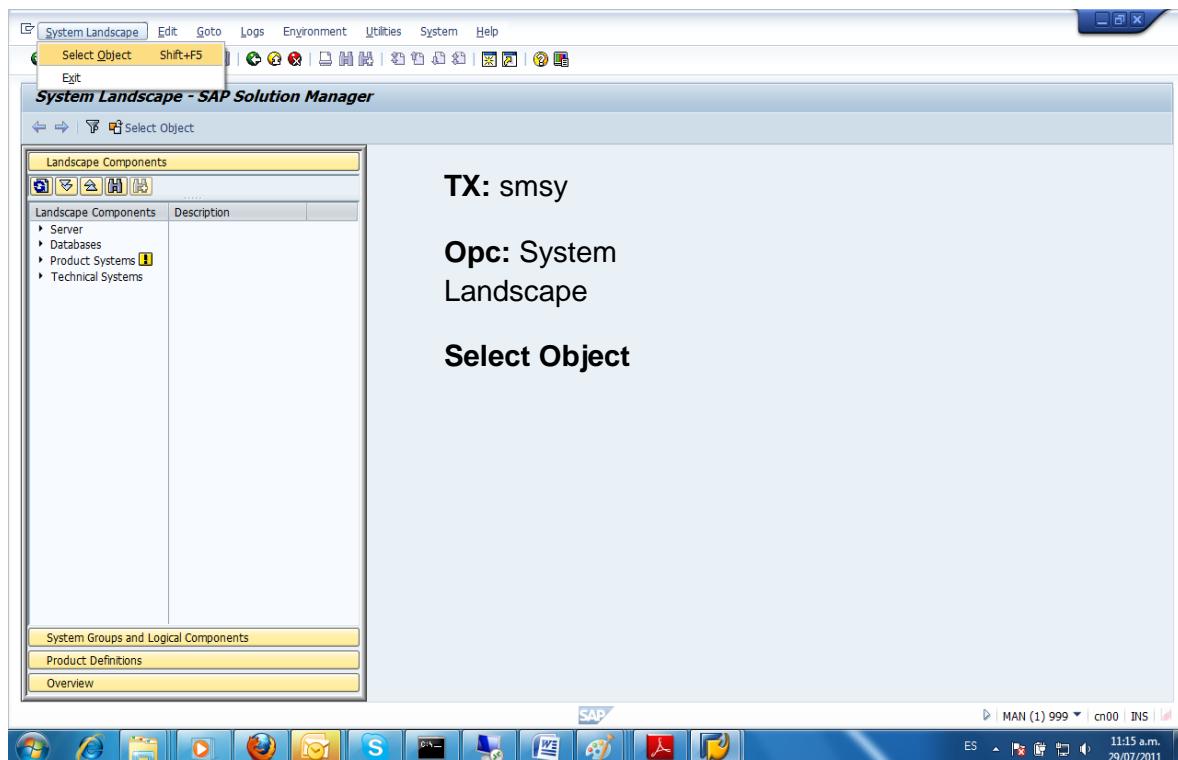
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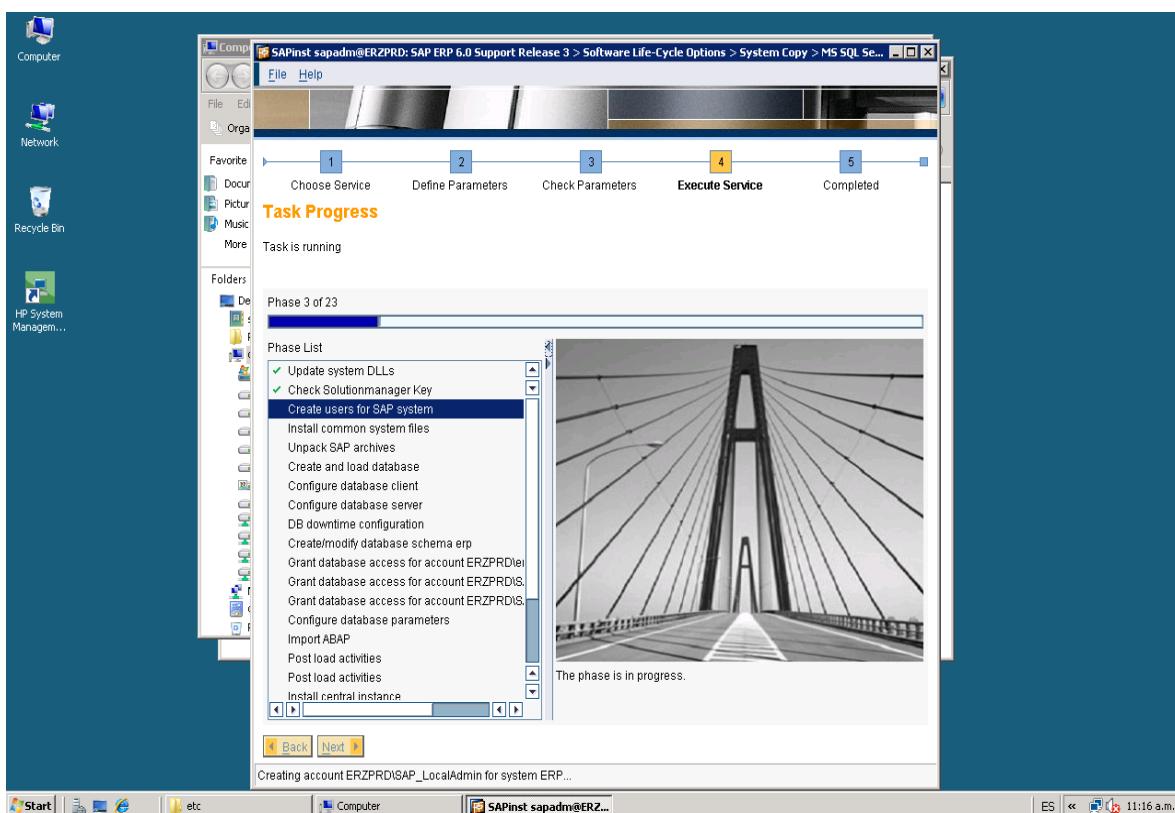
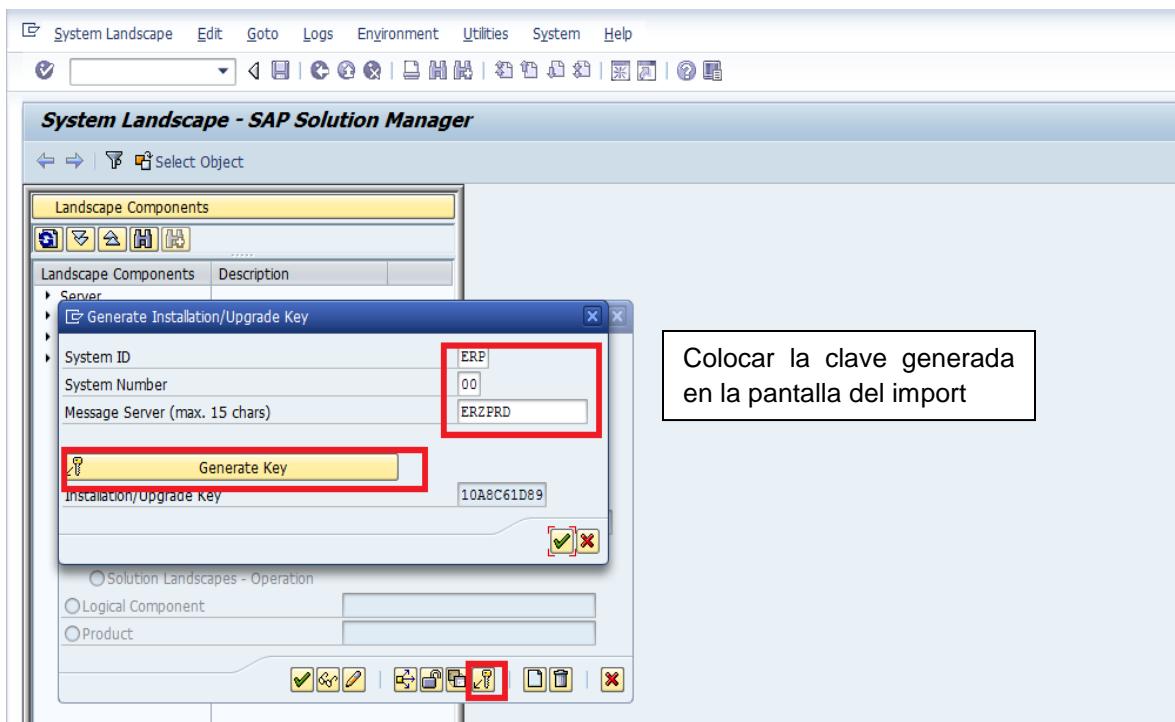
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11. DOCUMENTOS DE REFERENCIA

7.1 Internos

N.A