

**ACTA DE SUPERVISIÓN
PARA AUTORIZAR PAGO
No. 08**

ORDEN DE COMPRA No 74506 CON FECHA DE EMISIÓN 18 DE AGOSTO DE 2021
NUMERACION INTERNA SED No 2538 DE 2021

En Bogotá D.C., a los 13 días del mes de octubre de 2022, se reunieron las siguientes personas: **WILSON ADIEL RODRIGUEZ RODRIGUEZ**, Jefe Oficina de Tecnologías de la Información y las Comunicaciones en su calidad de Supervisor y **MONICA DEL PILAR CAMACHO CASADO** identificada con C.C. No. 51.910.468, Representante Legal de **UNION TEMPORAL TAKCW**, en su condición de contratista, con el fin de verificar el cumplimiento de las obligaciones contractuales y la procedencia de la autorización del pago correspondiente, en el marco de la orden de compra arriba referida, cuyas condiciones generales son las siguientes:

OBJETO:	CONTRATAR LOS SERVICIOS DE OCI (ORACLE CLOUD INFRAESTRUCTURE) PARA LA MIGRACION DE SISTEMAS DE INFORMACION MISIONALES DE LA SECRETARIA DE EDUCACION DEL DISTRITO.
VALOR:	Ochocientos siete millones cuatrocientos sesenta y dos mil ochocientos noventa y cuatro pesos M/CTE (\$807.462.894). Dentro de este valor se encuentran incluidos todos los costos directos e indirectos en que incurra la ejecución del contrato, así como todos los impuestos, tasas y contribuciones. La SED efectuará las retenciones que en materia de impuestos, gravámenes, tasas o contribuciones establezca la Ley.
FORMA DE PAGO:	El valor del contrato será cancelado por la Secretaría de Educación del Distrito al Contratista, en un (1) ÚNICO PAGO correspondiente al 100% del valor de la Orden de Compra, expedida por Agencia Nacional de Contratación Pública - Colombia Compra Eficiente. Las condiciones de pago son las establecidas en la cláusula 10 "Facturación y pago" del Instrumento de agregación Nube Pública III N°CCENEG-015-1-2019, de la Tienda Virtual del Estado Colombiano de Colombia Compra Eficiente (Acuerdo Marco de Precios CCE-908-1-Amp-2019).
PLAZO PACTADO:	Un (1) año, contado a partir de la fecha de inicio de la Orden de Compra.
FECHA DE INICIO:	10 de septiembre de 2021
FECHA PREVISTA DE TERMINACIÓN:	10 de septiembre de 2022
SUPERVISOR:	JEFE OFICINA DE TCNOLOGIAS DE LA INFORMACION Y LAS COMUNICACIONES

La supervisión verificó el cumplimiento de las actividades a cargo del contratista, en virtud de lo cual se establece la procedencia de la autorización de pago No 8, el cual corresponde a \$5.177.083, M/CTE; a la fecha el porcentaje de ejecución del valor total de la orden de compra es: 97.56%.

Para constancia se firma por quienes en ella intervinieron.



Contratista
MONICA DEL PILAR CAMACHO CASADO
Representante Legal
UNION TEMPORAL TAKCW



Supervisor
WILSON ADIEL RODRIGUEZ RODRIGUEZ
Jefe OTIC

ACTA DE APROBACIÓN DE ENTREGABLES

**ORDEN DE COMPRA No 74506 CON FECHA DE EMISIÓN 18 DE AGOSTO DE 2021
NUMERACION INTERNA SED No 2538 DE 2021**

OFICINA DE TECNOLOGÍAS DE LA INFORMACIÓN Y LAS COMUNICACIONES

En Bogotá D.C., a los 13 días del mes de octubre del año 2022, las siguientes personas:

Nombre	Cargo	Organización
WILSON ADIEL RODRIGUEZ RODRIGUEZ	Jefe Oficina de Tecnologías de la Información y las Comunicaciones	Secretaría de Educación del Distrito
RODRIGO BERNAL ABRIL	Contratista apoyo a la supervisión Oficina de Tecnologías de la Información y las Comunicaciones	Secretaría de Educación del Distrito
MONICA DEL PILAR CAMACHO CASADO	Representante Legal UNION TEMPORAL TAKCW	Contratista

En dicha reunión la SED dio por recibido y aprobado el siguiente entregable:

- Informe de Actividades septiembre de 2022.
- Instalación ambiente Cloud Sed – Documento de Arquitectura
- ODI_Sesion_PKG
- ODI_Azure
- ODI_Perfil
- ODI_Agent
- ODI_Sesion_1
- ODI_KEYS
- Pass.xlsx

Para su constancia firman,



WILSON ADIEL RODRIGUEZ RODRIGUEZ
Jefe Oficina de Tecnologías de la Información y las Comunicaciones



RODRIGO BERNAL ABRIL
Contratista apoyo supervisión OTIC



MONICA DEL PILAR CAMACHO CASADO
Representante Legal
UNION TEMPORAL TAKCW



INSTALACIÓN AMBIENTE CLOUD SED
DOCUMENTO DE ARQUITECTURA
SEPTIEMBRE DE 2022

Versión	Autor	Descripción del cambio	Fecha
1.0	TAK Colombia	Primera Versión	20/07/2022

Contenido

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1. Descripción:

En el presente documento se provee la información acerca de la instalación de cada componente de los servidores de aplicaciones y bases de datos de ODI

2. Objetivos:

Implementar una solución de infraestructura para la SED bajo el modelo de nube OCI- ODI

Teniendo en cuenta lo anterior el proyecto cuenta con las siguientes fases:

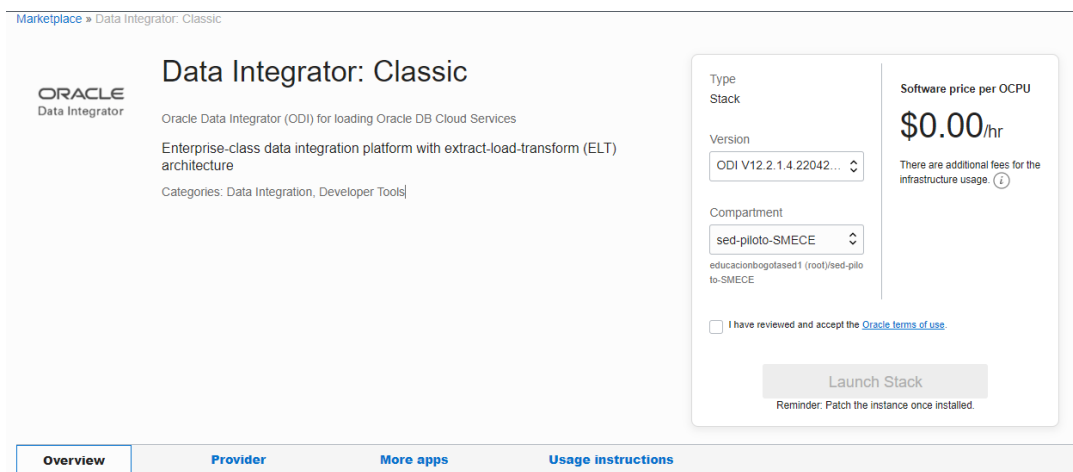
- Instalación de Servidores Oracle Linux
- Creación Stack Weblogic Suite 12c
- Configuración de clusters y balanceadores que atenderán las solicitudes
- Migración de bases de datos
- Despliegue de máquinas forti

3. Arquitectura de la Solución:

4. Creación Stack ODI:

A continuación, se describe el proceso de creación del stack weblogic suite en OCI

- Ir al marketplace y buscar Dta Integrator: Classic



The screenshot shows the Oracle Marketplace page for 'Data Integrator: Classic'. The page includes the Oracle logo, the product name, and a description: 'Oracle Data Integrator (ODI) for loading Oracle DB Cloud Services. Enterprise-class data integration platform with extract-load-transform (ELT) architecture'. It also lists categories: 'Data Integration, Developer Tools'. On the right, there are configuration options for 'Type' (Stack), 'Version' (ODI V12.2.1.4.22042...), and 'Compartment' (sed-piloto-SMECE). The software price is listed as '\$0.00/hr'. There is a checkbox for 'I have reviewed and accept the Oracle terms of use' and a 'Launch Stack' button. A reminder at the bottom says 'Reminder: Patch the instance once installed.' At the bottom of the page, there are tabs for 'Overview', 'Provider', 'More apps', and 'Usage instructions'.

- Automáticamente Oracle cloud crea un script en terraform para la creación del stack.

Create Stack

[Help](#)

1 Stack Information

2 Configure Variables

3 Review

Stack Information

Oracle ODI Stack Variables

Name Optional

Instance_ODI

Description Optional

Input variables for the Oracle ODI stack template

Create in compartment

sed-piloto-SMECE

educacionbogotased1 (root)/sed-piloto-SMECE

Terraform version

[Next](#) [Cancel](#)

- Se debe completar la información requerida como:
 - Networking
 - Repository

Create Stack

1 Stack Information

2 **Configure Variables**

3 Review

General Settings

Networking Options

New networking components will be created

The ODI Instance can be created inside a new VCN and Subnet, that will be provisioned and configured for you, or it can be created inside an existing network.

ODI Repository Location

Create a new Repository in an Autonomous Database

The ODI repository can either be located in an Autonomous Database in this Tenancy, or in an embedded database in the ODI Instance.

Resource Display Name Prefix Optional

ODI_

Display name prefix for all generated compute and network resources. If not specified, this will be automatically generated.

Target Compartment

sed-piloto-SMECE

The target compartment for all of the provisioned resources

[Previous](#) [Next](#) [Cancel](#)

- Se debe completar la información requerida como:
 - SSH Public Key
 - Dominio
 - VNC Password

Create Stack

1 Stack Information
2 **Configure Variables**
3 Review

ODI Node Shape *Optional*

VM.Standard2.4

The shape for all ODI compute instances

SSH Public Key

ssh-rsa AAAAB3NzaC1yc2EAAAADAQABAAQDercFePIW2Y00L1LArCARfIsPac4PEZoSPPLxiOd8ppHmIDht8RaDy5L1h03Dobnp

SSH keys are needed to ssh to the ODI vm instance. It can be generated using puttygen. Use the corresponding private key to access the ODI compute instances

ODI Availability Domain

UYgW:US-ASHBURN-AD-1

The name of the availability domain in which to create the ODI compute instances

ODI VNC Password

The VNC password for the ODI instance

- Se debe completar la información requerida como:
 - Base de datos
 - Admin Password
 - Supervisor Password
 - Schema Password

Create Stack

1 Stack Information
2 **Configure Variables**
3 Review

New ODI Metadata Repository

Autonomous Database Compartment

sed-piloto-SMECE

The compartment of the ADW instance

Autonomous Database Instance

DB_SMECE

Choose an Autonomous Database Instance

Autonomous Database Admin Password

Provide Autonomous Database Instance admin password

Supervisor Password

Provide a new password for the ODI Supervisor User. (Alphanumeric and cannot start with a number)

Previous
Next
Cancel

Create Stack

- Stack Information
- Configure Variables
- Review**

Autonomous Database Instance ...qlfeza [Show](#) [Copy](#)

Autonomous Database Admin Password

Supervisor Password

Schema Prefix ODI

Schema Password

Run Apply on the created stack?

Immediately provision the resources defined in the Terraform configuration by running the Apply action on the new stack.

☒ Run Apply

[Previous](#) [Create](#) [Cancel](#)

teniendo todas las configuraciones inicia job de creación del stack

ORACLE Cloud

Search resources, services, documentation, and marketplace

US East (Ashburn)

Resource Manager > Stacks > Stack Details > Job Details



SUCCEEDED

ormjob20220714212309

[Edit Job](#) [Download Terraform Configuration](#) [Download Terraform State](#) [Add tags](#)

Job Information

Tags

Application Information

OCID: ...ruozq [Show](#) [Copy](#)

Job Type: Apply

State: ● Succeeded

Start Time: Thu, Jul 14, 2022, 21:23:09 UTC

Compartment: educacionbogotased1 (root)/sed-piloto-SMECE

Plan Job ID: Automatically approved

Working Directory: Not specified

End Time: Thu, Jul 14, 2022, 21:24:13 UTC

Resources

Logs

[Download Logs](#) [Show Timestamps](#)

- Al finalizar el proceso de la creación del stack, se puede visualizar en la sección de instancias el número de servidores aprovisionados con las características entregadas al stack.

ORACLE Cloud

Search resources, services, documentation, and marketplace

US East (Ashburn)

Compute

Instances in sed-piloto-SMECE Compartment

An [Instance](#) is a compute host. Choose between virtual machines (VMs) and bare metal instances. The image that you use to launch an instance determines its operating system and other software.

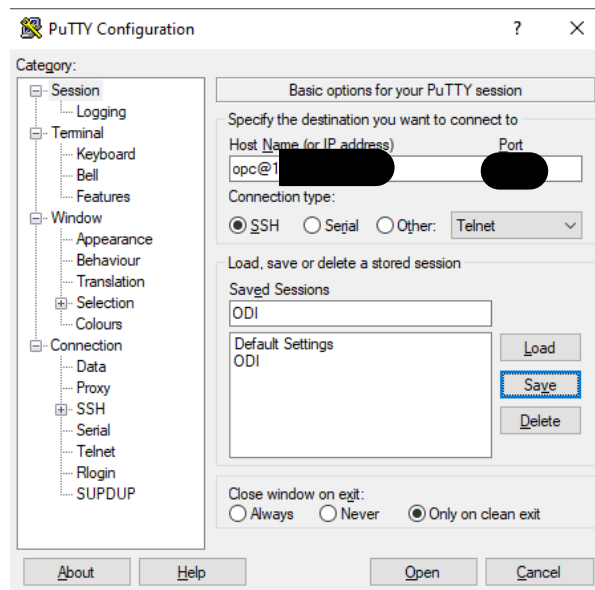
[Create instance](#)

Name	State	Public IP	Private IP	Shape	OCPU count	Memory (GB)	Avail...
ODI_node-1	● Running			VM.Standard2.4	4	60	AD

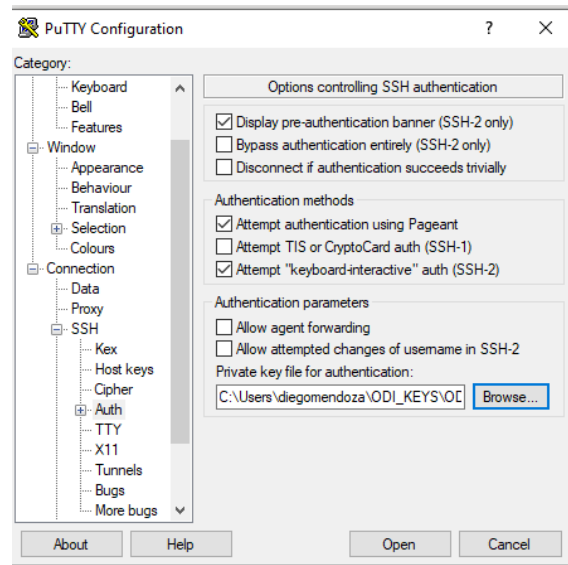
5. Configuración ODI:

Para entrar a la instancia de ODI es necesario habilitar el puerto 5901.

Se ingresa mediante Putty



Relacionar la Private Key



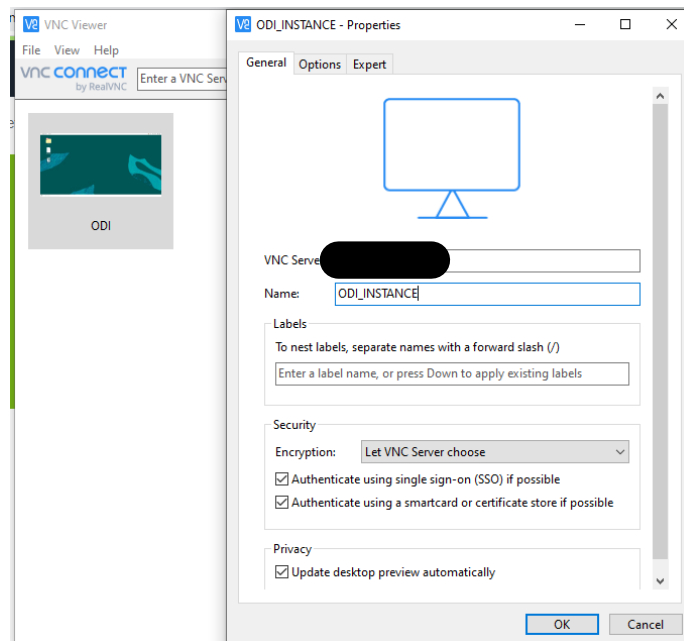
Habilitar el puerto 5901 en el firewall en la instancia.

```

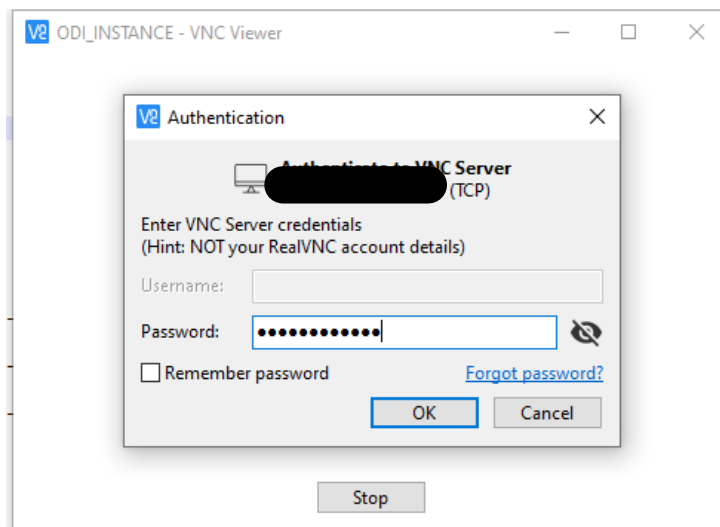
opc@oracle-odi-inst-h9gm:~
└─$ Using username "opc".
    Authenticating with public key "rsa-key-20220714"
    Passphrase for key "rsa-key-20220714":
Last login: Thu Jul 14 21:26:40 2022
Welcome to Autonomous Linux
Effective kernel version is 5.4.17-2136.304.4.1.el7uek.x86_64
[opc@oracle-odi-inst-h9gm ~]$ sudo firewall-cmd --permanent --add-port=5901/tcp
success
[opc@oracle-odi-inst-h9gm ~]$ sudo firewall-cmd --reload
success
[opc@oracle-odi-inst-h9gm ~]$ sudo firewall-cmd --list-ports
5901/tcp
[opc@oracle-odi-inst-h9gm ~]$

```

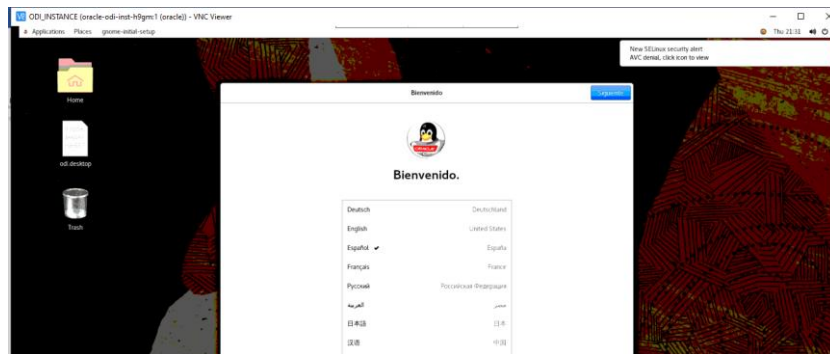
Mediante VNC Viewer



Ingresa el password de VNC



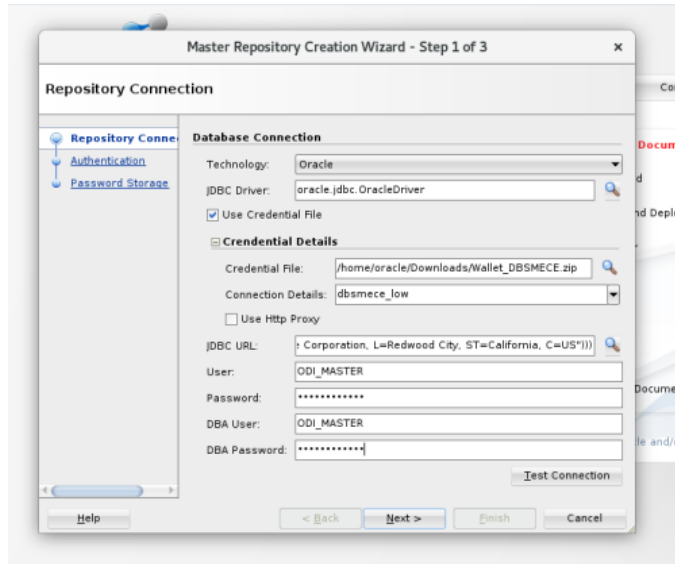
De esta manera se toma control sobre la instancia de ODI.



5.1 Configuración Repository Master:

Para el correcto funcionamiento del ODI se debe crear el repositorio Master.

- Conexión Base de datos
- Usuario esquema Master
- Usuario DBA



Definir Password Supervisor

Master Repository Creation Wizard - Step 2 of 3

Authentication

Repository Connect
Authentication
Password Storage

Select the authentication mode that this master repository will use. Use ODI authentication to manage users using ODI's internal security system. Use External authentication if you wish to use an external enterprise identity store, such as Oracle Internet Directory, to manage user authentication.

☒ Use ODI Authentication

Supervisor User:

Supervisor Password:

Confirm Password:

☐ Use External Authentication

Add principals to Role

Help < Back Next > Finish Cancel

Master Repository Creation Wizard - Step 3 of 3

Password Storage

Repository Connect
Authentication
Password Storage

☒ Internal Password Storage
☐ External Password Storage

MBean Server Parameters

Host:

Port:

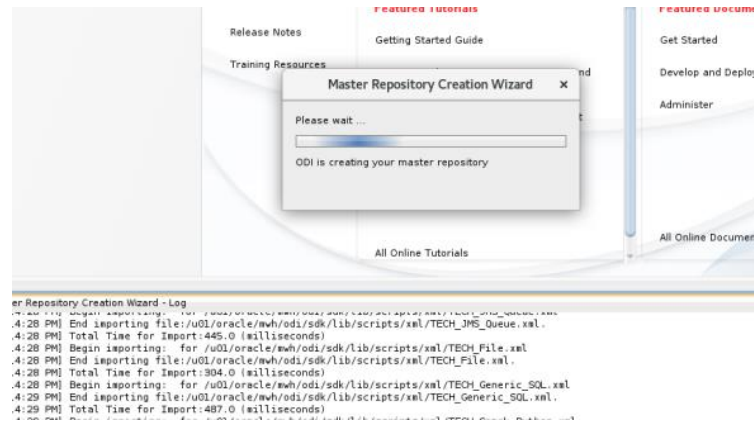
User:

Password:

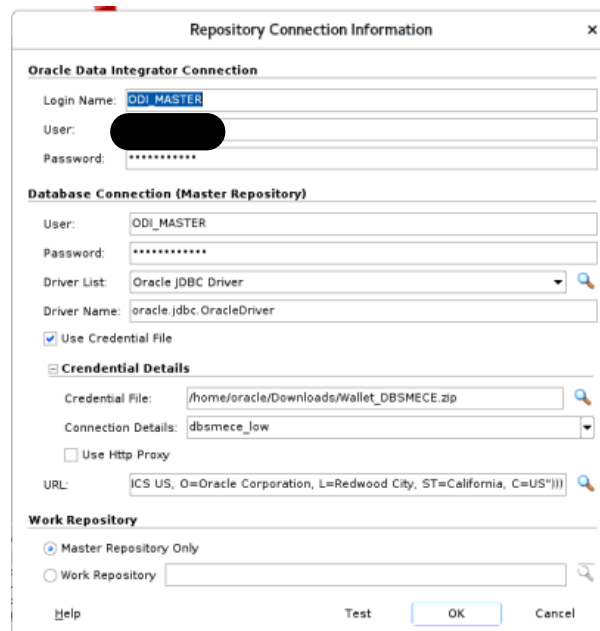
Test Connection

Help < Back Next > Finish Cancel

Crear Repositorio.



Conexion al repositorio Master.



Repository Connection Information

Oracle Data Integrator Connection

Login Name: ODI_MASTER

User: [Redacted]

Password: [Redacted]

Database Connection (Master Repository)

User: ODI_MASTER

Password: [Redacted]

Driver List: Oracle JDBC Driver

Driver Name: oracle.jdbc.OracleDriver

☒ Use Credential File

Credential Details

Credential File: /home/oracle/Downloads/Wallet_DBSMECE.zip

Connection Details: dbsmce_low

☐ Use Http Proxy

URL: ICS US, O=Oracle Corporation, L=Redwood City, ST=California, C=US]]]]

Work Repository

☒ Master Repository Only

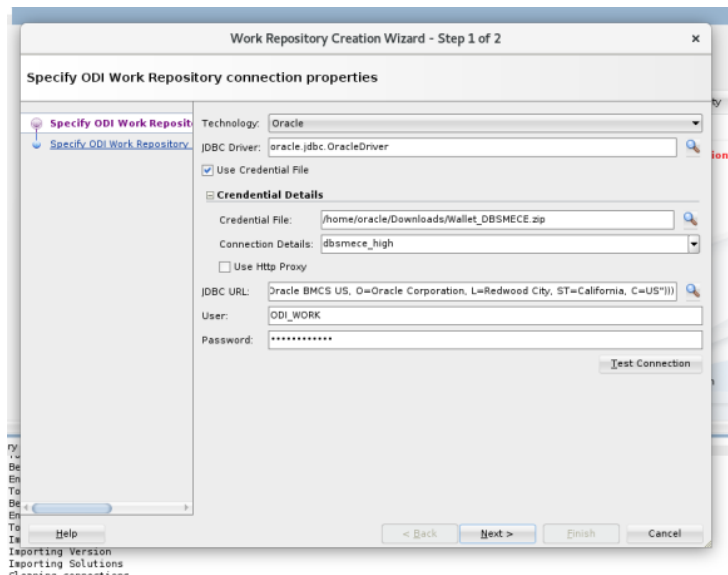
☐ Work Repository

Help Test OK Cancel

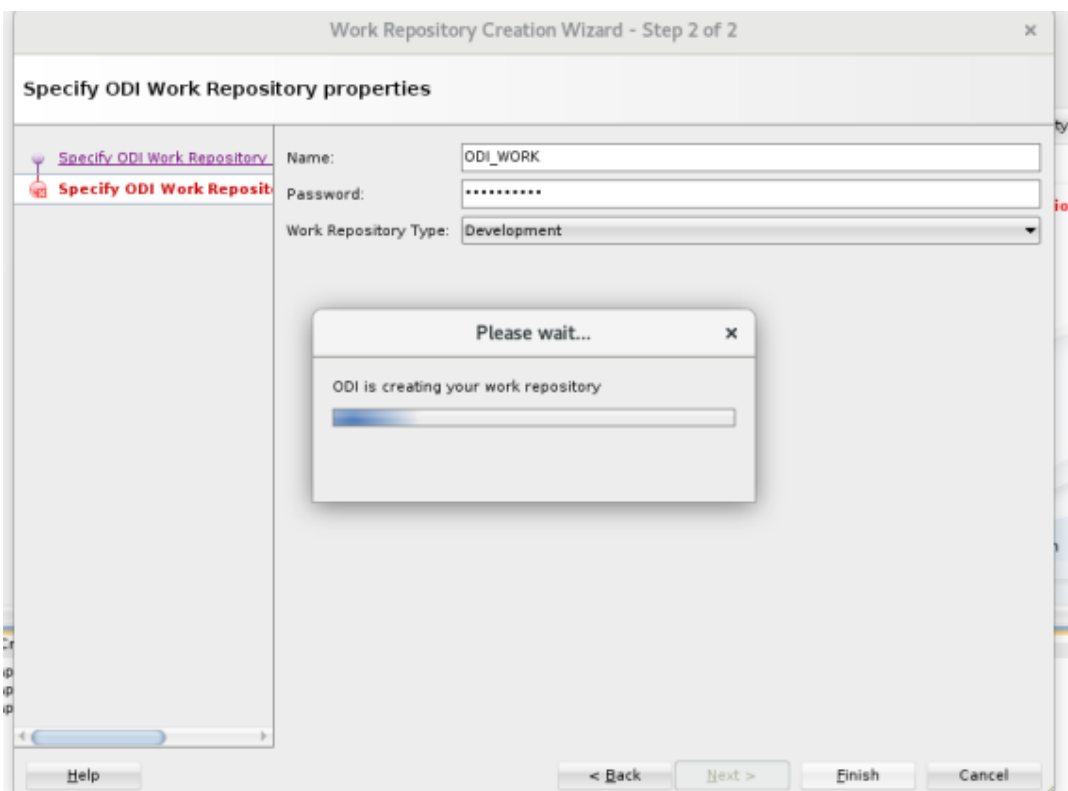
5.2 Configuración Repository Work:

Para el correcto funcionamiento del ODI se debe crear el repositorio Work.

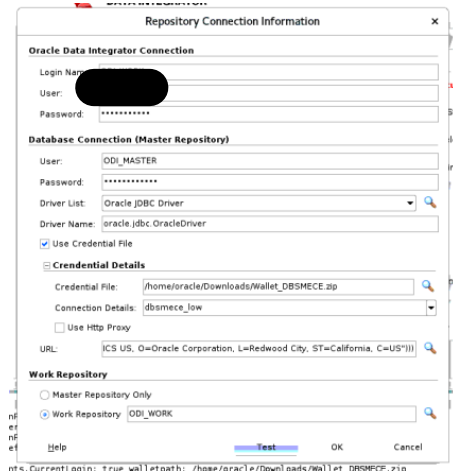
- Conexión Base de datos
- Usuario esquema Work



Definir tipo repositorio.



Conexion al repositorio Work.



6. Configuración ODI - Bucket

Se procede con la configuración en topología Oracle object storage

General:

- Region
- Tenant OCID
- User OCID (Usuario Generico)

Security

- Private Key File
- Passphrase
- FingerPrint

Los datos de seguridad se deben generar llaves desde la instancia hacia OCI y registrar la llave publica en opciones de usuario API Keys el cual entrega el FingerPrint.

Swift Connectivity

- Tenant Name
- User Name (Usuario Generico)
- Token
- Object Storage Namespace

El token es generado en opciones de usuario Auth Tokens

Start Page x bucket-SMECE

Test Connection

Definition

JDBC

Version

Privileges

Flexfields

Data Server

Name: bucket-SMECE

General

Region: us-ashburn-1

Tenant OCID: ocid1.tenancy.oc1...aaaaaaaajb2bdvjxrp224ssz7kfwafcpov32rl5jpyny2k4q25exqutr22q

User OCID: ocid1.user.oc1...aaaaaaaa7rpw6jlxeyrphnsg6qt3fyj5ocxqklxwaxp2dl5mqhlibfv2fa

Security

Private Key File: /home/oracle/Downloads/oci_api_key.pem

Passphrase:

Fingerprint: [REDACTED]

Swift Connectivity

Tenant Name: educacionbogotased1

User Name: odidevsd

Token:

Object Storage Namespace: idrakybqkmr9

7. Configuración ODI - ADB

Se procede con la configuración en topología Oracle object storage

General:

- User
- Password
- Credential File
- Connection Details

Data Server

Name:

Instance / dblink (Data Server):

Connection

User:

Password:

☐ JNDI Connection ☒ Use Credential File

Credential Details

Credential File:

Connection Details:

☐ Use Http Proxy

8. Configuración ADB - OCI

Se procede con la configuración en la base de datos credenciales y conexión al object storage.

- Credential Name
- Username (Usuario Generico)
- Password (Token)

```

1 BEGIN
2   DBMS_CLOUD.CREATE_CREDENTIAL(
3     credential_name => 'ODI',
4     username => 'oracleidentitycloudservice/diego.mendoza@takcolombia.com.co',
5     password => '7ADpWl0R7:amdKI[[J6G' );
6 END;
7

```

```

9 select *
10 from dbms_cloud.list_objects(
11 'ODI', 'https://objectstorage.us-ashburn-1.oraclecloud.com/n/ldrakbyqkmr9/b/bucket-SMECE/o/FILE/' );
12

```

OBJECT_NAME	BYTES	CHECKSUM	CREATED	LAST_MODIFIED
AF_FPV_FEB_VIP.txt	1032	f1398230514e222a04 (null)		2022-07-15T14:32:25.
AF_FPV_FEB_VIP2.txt	1236	ce79303c9ac3d03638 (null)		2022-07-15T14:40:51.

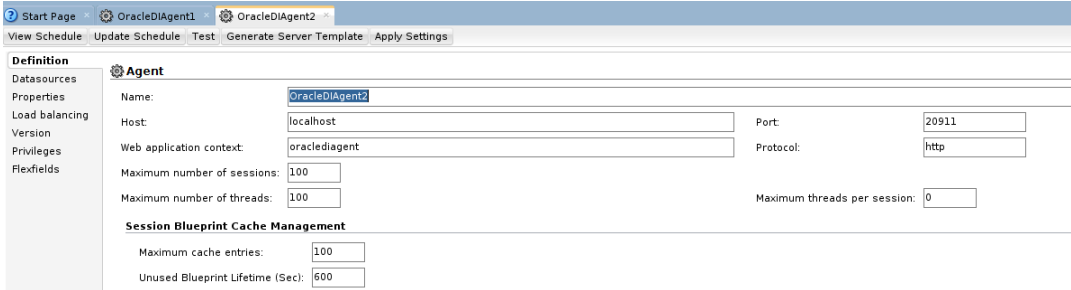
9. Relación de Servidores y accesos:

US west	SECRETARIA DE EDUCACION						
ASHBURN	NOMBRE	IP SERVIDOR PÚBLICA	IP PRIVADA	USUARIO	CONTRASEÑA	NOMBRE CLAVE PÚBLICA/PRIVADA	Passphrase
	ODI_-node-1						

ODI

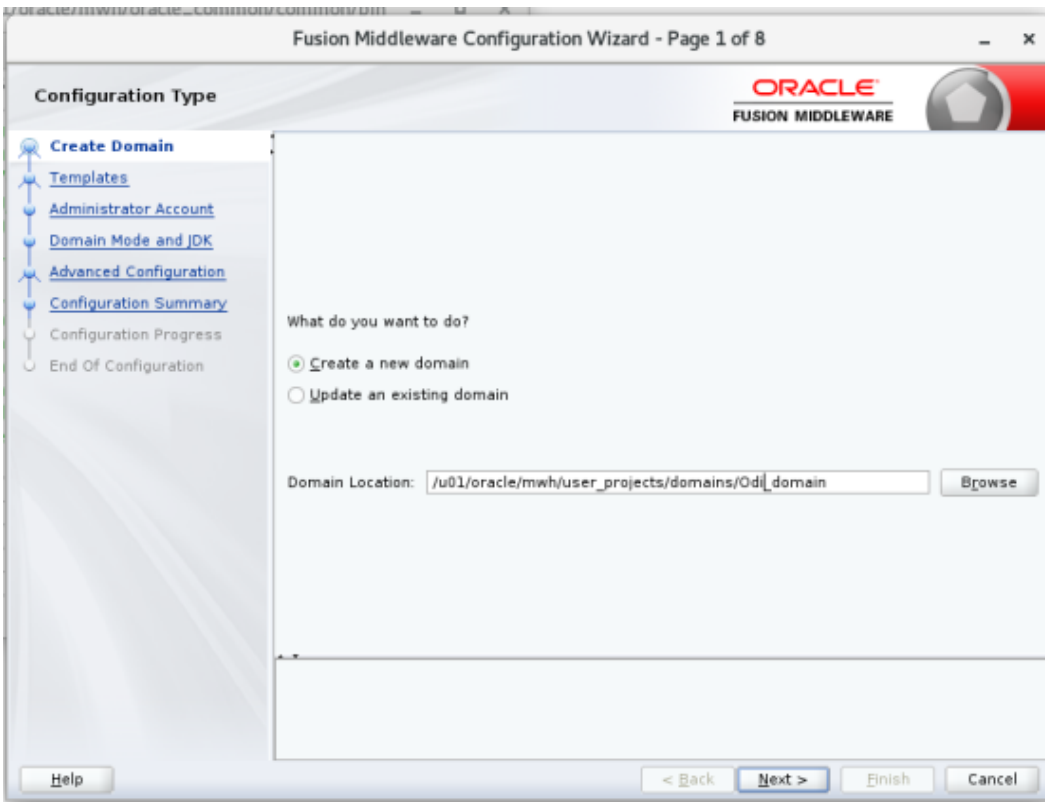
Se crean 2 agentes en la maquina del ODI con la configuración en los puertos 20910 y 20911

View Schedule Update Schedule Test Generate Server Template Apply Settings			
Definition	Agent		
Datasources	Name: OracleDIAgent1		
Properties	Host: localhost	Port: 20910	
Load balancing	Web application context: oraclediagent	Protocol: http	
Version	Maximum number of sessions: 100	Maximum threads per session: 0	
Privileges	Maximum number of threads: 100		
Flexfields	Session Blueprint Cache Management		
	Maximum cache entries: 100		
	Unused Blueprint Lifetime (Sec): 600		



The image shows the 'OracleDI Agent' configuration window. It has a sidebar with options: Definition, Datasources, Properties, Load balancing, Version, Privileges, and Flexfields. The 'Definition' tab is active, showing fields for Name (OracleDI Agent2), Host (localhost), Port (20911), Web application context (oracleagent), Protocol (http), Maximum number of sessions (100), Maximum number of threads (100), and Maximum threads per session (0). Below these is the 'Session Blueprint Cache Management' section with fields for Maximum cache entries (100) and Unused Blueprint Lifetime (Sec) (600).

Los agentes se encienden desde el dominio Odi_domain bajo las sintaxis
 Odi_domain/bin/agent.sh -NAME=OracleDI Agent1



The image shows the 'Fusion Middleware Configuration Wizard - Page 1 of 8'. The 'Configuration Type' section on the left lists: Create Domain, Templates, Administrator Account, Domain Mode and JDK, Advanced Configuration, Configuration Summary, Configuration Progress, and End Of Configuration. The 'Create Domain' option is selected. The main area asks 'What do you want to do?' with two radio buttons: 'Create a new domain' (selected) and 'Update an existing domain'. Below this is a 'Domain Location' field with the text '/u01/oracle/mwh/user_projects/domains/Odi_domain' and a 'Browse' button. At the bottom are buttons for 'Help', '< Back', 'Next >', 'Finish', and 'Cancel'.

11. File System Instancia ODI

Se configura el bucket SMECE como file system en la instancia mediante s3fs

Instalación

```
[root@oracle-odi-inst-h9gm yum.repos.d]# sudo yum install s3fs-fuse
Loaded plugins: langpacks, ulninfo
Resolving Dependencies
--> Running transaction check
--> Package s3fs-fuse.x86_64 0:1.91-1.el7 will be installed
--> Processing Dependency: mailcap for package: s3fs-fuse-1.91-1.el7.x86_64
--> Running transaction check
--> Package mailcap.noarch 0:2.1.41-2.el7 will be installed
--> Finished Dependency Resolution

Dependencies Resolved

=====
Package             Arch           Version          Repository        Size
=====
Installing:
s3fs-fuse           x86_64         1.91-1.el7       ol7_developer_EPEL 257 k
Installing for dependencies:
mailcap             noarch         2.1.41-2.el7     ol7_latest         30 k
=====

Transaction Summary
=====
Install 1 Package (+1 Dependent package)

Total download size: 287 k
Installed size: 698 k
Is this ok [y/d/N]: y
Downloading packages:
(1/2): mailcap-2.1.41-2.el7.noarch.rpm | 30 kB 00:00
(2/2): s3fs-fuse-1.91-1.el7.x86_64.rpm | 257 kB 00:00
-----
Total                                     778 kB/s | 287 kB 00:00
Running transaction check
```

Configuración

```
[root@oracle-odi-inst-h9gm ~]# echo 74f643cddaca4f28f6c62c4d84e6412a05d26593:M91
yoZpgkP3Fhxhj5sabh6eOfxmv/JopYAGlmrQoPJVO= > ${HOME}/.passwd-s3fs
[root@oracle-odi-inst-h9gm ~]# chmod 600 .passwd-s3fs
```

Montaje

```
[root@oracle-odi-inst-h9gm /]# s3fs bucket-SMECE /mnt -o passwd_file=${HOME}/.passwd-s3fs -o url=https://idrakybqkmr9
-o nomultipart -o use_path_request_style -o endpoint=us-ashburn-1
[root@oracle-odi-inst-h9gm /]# ls -ltr
total 41
```

Test

```
[root@oracle-odi-inst-h9gm yum.repos.d]# cd /mnt/
[root@oracle-odi-inst-h9gm mnt]# ls -ltr
total 1208604
-rw-r-----. 1 root root 101804352 Jul 25 20:43 proc7028129AnonAnsi.zip
-rw-r-----. 1 root root 566728469 Aug 14 14:11 proc7028129AnonAnsi.txt
drwxr-x---. 1 root root 0 Aug 20 00:33 AE_PROCESS
-rw-r-----. 1 root root 569076044 Aug 20 01:55 proc7028129AnonAnsi_1.txt
[root@oracle-odi-inst-h9gm mnt]#
```

12. File System(Azure) Instancia ODI

Instalación

```
blobfuse 40223552 30967188 9256364 77% /home/oracle/Azure_Files
[root@oracle-odi-inst-h9gm opc]# yum install blobfuse
Loaded plugins: langpacks, ulninfo
ol7_UCKR6 | 3.0 kB 00:00
ol7_addons | 3.0 kB 00:00
ol7_developer_EPEL | 3.6 kB 00:00
ol7_kspace | 3.0 kB 00:00
ol7_latest | 3.6 kB 00:00
ol7_oci_included | 2.9 kB 00:00
ol7_optional_latest | 3.0 kB 00:00
ol7_software_collections | 3.0 kB 00:00
ol7_x86_64_userspace_kspace | 3.0 kB 00:00
packages-microsoft-com-prod | 3.0 kB 00:00
packages-microsoft-com-prod/primary_db | 611 kB 00:00
Package blobfuse-1.3.6-1.el7.x86_64 already installed and latest version
Nothing to do
```

Configuración

```
root@oracle-odi-inst-h9gm:/home/opc
accountName stgldatostst
accountKey spmbHWFzkdDx7MT5cqdAmn4iJ9grv9E+WK7Vhx9oogpJ4lkmsMjVHxp9AW
hTR9WHuE6L9t58+ebocogbh55f3Q==
containerName simat
```

Montaje

```
[root@oracle-odi-inst-h9gm opc]# vi ${HOME}/.fuse_connection.cfg
[root@oracle-odi-inst-h9gm opc]# blobfuse /home/oracle/Azure_Files --tmp-path=/mnt/resource/blobfusetmp --config-file=${HOME}/.fuse_connection.cfg -o attr_timeout=240 -o entry_timeout=240 -o negative_timeout=120 -o nonempty -o allow_other
```

```
blobfuse /home/oracle/Azure_Files --tmp-path=/mnt/resource/blobfusetmp --config-file=${HOME}/.fuse_connection.cfg -o attr_timeout=240 -o entry_timeout=240 -o negative_timeout=120 -o nonempty -o allow_other
```

Test

```
[root@oracle-odi-inst-h9gm opc]# df -k
Filesystem      1K-blocks    Used Available Use% Mounted on
devtmpfs        61512300      0 61512300  0% /dev
tmpfs           61562088      4 61562084  1% /dev/shm
tmpfs           61562088    67156 61494932  1% /run
tmpfs           61562088      0 61562088  0% /sys/fs/cgroup
/dev/sda3       40223552 30967188  9256364  77% /
/dev/sdal        204580      7648 196932  4% /boot/efi
tmpfs          12312420      0 12312420  0% /run/user/0
tmpfs          12312420      0 12312420  0% /run/user/994
tmpfs          12312420      0 12312420  0% /run/user/1000
blobfuse       40223552 30967188  9256364  77% /home/oracle/Azure_Files
[root@oracle-odi-inst-h9gm opc]#
```



A composite image featuring a person's hands in the foreground, one holding a pen and the other operating a calculator. The background is a dense, high-angle view of a city skyline, with the Petronas Twin Towers prominently visible on the left. The entire image has a semi-transparent, reddish-pink overlay.

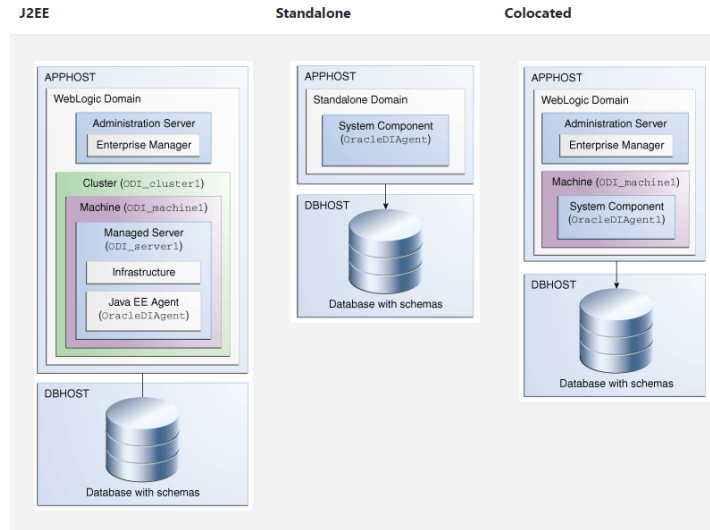
SESIÓN ODI 3

2 de Agosto de 2022

ODI Agent:

Los agentes son programas Java de subprocesos múltiples que admiten el equilibrio de carga y se pueden distribuir en el sistema de información. Tienen su propio cronograma de ejecución, que se puede definir en Oracle Data Integrator (ODI) o se pueden llamar desde un programador externo.

También se pueden invocar desde una API de Java o un servicio web. Para poder ejecutar trabajos en ODI, debe tener un agente configurado y ejecutándose. Eso requiere que el dominio de WebLogic esté configurado correctamente.



Configuración ODI



Start Page x OracleDIAgent1 x

View Schedule Update Schedule Test Generate Server Template Apply Settings

Definition

Datasources
Properties
Load balancing
Version
Privileges
Flexfields

Agent

Name: OracleDIAgent1

Host: localhost Port: 20910

Web application context: oraclediagent Protocol: http

Maximum number of sessions: 100

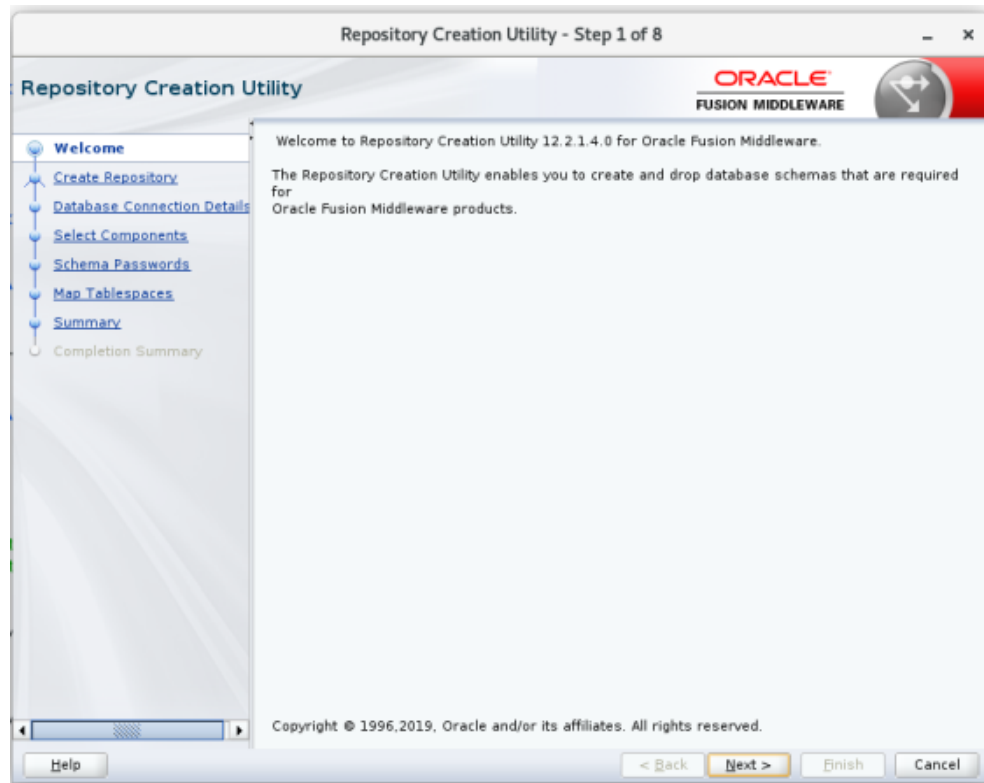
Maximum number of threads: 100 Maximum threads per session: 0

Session Blueprint Cache Management

Maximum cache entries: 100

Unused Blueprint Lifetime (Sec): 600

Creación Utilidades Repositorio



Creación Utilidades Repositorio



Creación Utilidades Repositorio

Repository Creation Utility - Step 3 of 7

Repository Creation Utility

ORACLE
FUSION MIDDLEWARE

Navigation:

- Welcome
- Generate Script
- Database Connection Details**
- Select Components
- Map Tablespaces
- Summary
- Completion Summary

Database Type: Oracle Database

Connection String Format: ☐ Connection Parameters ☒ Connection String

Connect String: dbsmece_low?TNS_ADMIN=/home/oracle/Downloads/Wallet_DBSMECE

Host Name:

Port:

Service Name:

Username: ADMIN

Password:

Role: Normal

Buttons: < Back, Next >, Finish, Cancel

jdbc:oracle:thin:@dbsmece_low?TNS_ADMIN=/home/oracle/Downloads/Wallet_DBSMECE

Creación Utilidades Repositorio

Repository Creation Utility - Step 4 of 7

Repository Creation Utility

ORACLE
FUSION MIDDLEWARE

Specify a unique prefix for all schemas created in this session, so you can easily locate, reference, and manage the schemas later.

☐ Select existing prefix:

☒ Create new prefix:

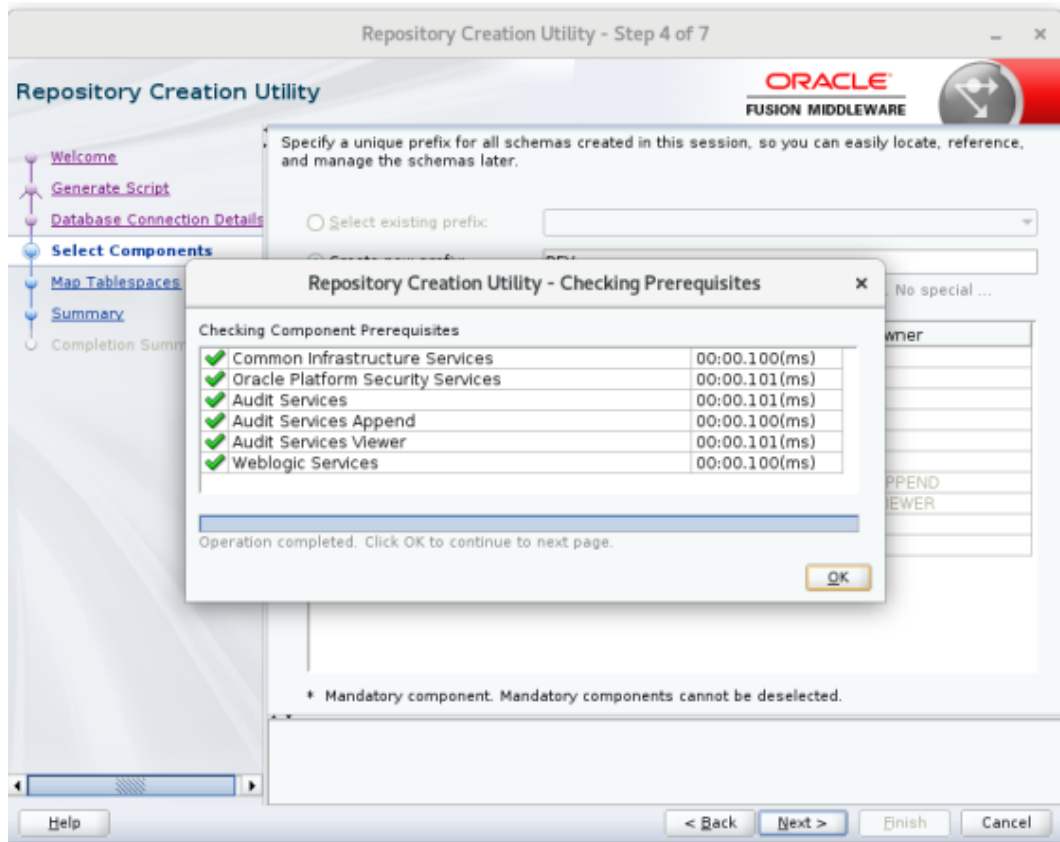
Alpha numeric only. Cannot start with a number. No special ...

Component	Schema Owner
☐ Oracle AS Repository Components	
☒ AS Common Schemas	
☒ Common Infrastructure Services *	DEV_STB
☒ Oracle Platform Security Services	DEV_OPSS
☐ User Messaging Service	UMS
☒ Audit Services	DEV_IAU
☒ Audit Services Append	DEV_IAU_APPEND
☒ Audit Services Viewer	DEV_IAU_VIEWER
☒ Weblogic Services *	DEV_WLS
☐ Oracle Data Integrator	

* Mandatory component. Mandatory components cannot be deselected.

Help < Back Next > Finish Cancel

Creación Utilidades Repositorio



Creación Utilidades Repositorio

Repository Creation Utility - Step 5 of 7

Repository Creation Utility

ORACLE
FUSION MIDDLEWARE

Default and temporary tablespaces for the selected components appear in the table below.
To create new tablespaces or modify existing tablespaces, use the Manage Tablespaces Button

Manage Tablespaces

Component	Schema Owner	Default Tablespace	Temp Tablespace
Common Infrastructu...	DEV_STB	DATA	TEMP
Audit Services	DEV_IAU	DATA	TEMP
Audit Services Append	DEV_IAU_APPEND	DATA	TEMP
Audit Services Viewer	DEV_IAU_VIEWER	DATA	TEMP
Weblogic Services	DEV_WLS	DATA	TEMP

* Default tablespaces (specified in the configuration files) are to be created upon confirmation.

☐ Encrypt Tablespace

Help < Back Next > Finish Cancel

Creación Utilidades Repositorio

Repository Creation Utility - Step 6 of 7

Repository Creation Utility 

[Welcome](#)
[Generate Script](#)
[Database Connection Details](#)
[Select Components](#)
[Map Tablespaces](#)
[Summary](#)
Completion Summary

Database details:

Host Name
Port
Service Name
Connected As Admin
Operation Generate Script
Prefix for (prefixable) Schema Owners DEV

Component	Schema Owner	Tablespace Type	Tablespace Name
Common Infrastructure Services	DEV_STB	Default	DATA
		Temp	TEMP
		Additional	[None]
Audit Services	DEV_IAU	Default	DATA
		Temp	TEMP
		Additional	[None]
Audit Services Append	DEV_IAU_APPEND	Default	DATA
		Temp	TEMP
		Additional	[None]
Audit Services Viewer	DEV_IAU_VIEWER	Default	DATA
		Temp	TEMP
		Additional	[None]

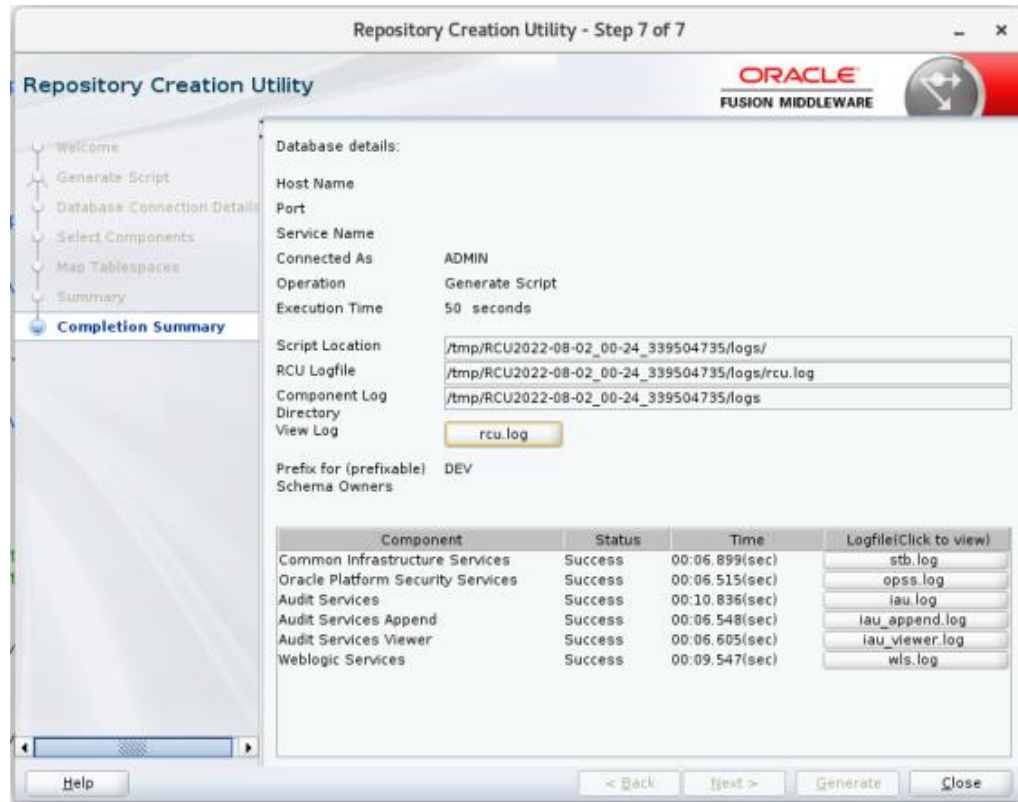
Save Response File

Script Location Directory: /tmp/RCU2022-08-02_03-15_622499557/logs/ Browse.....

Files generated: script_systemLoad.sql and script_postDataLoad.sql.

Help < Back Next > **Generate** Cancel

Creación Utilidades Repositorio



Creación Utilidades Repositorio

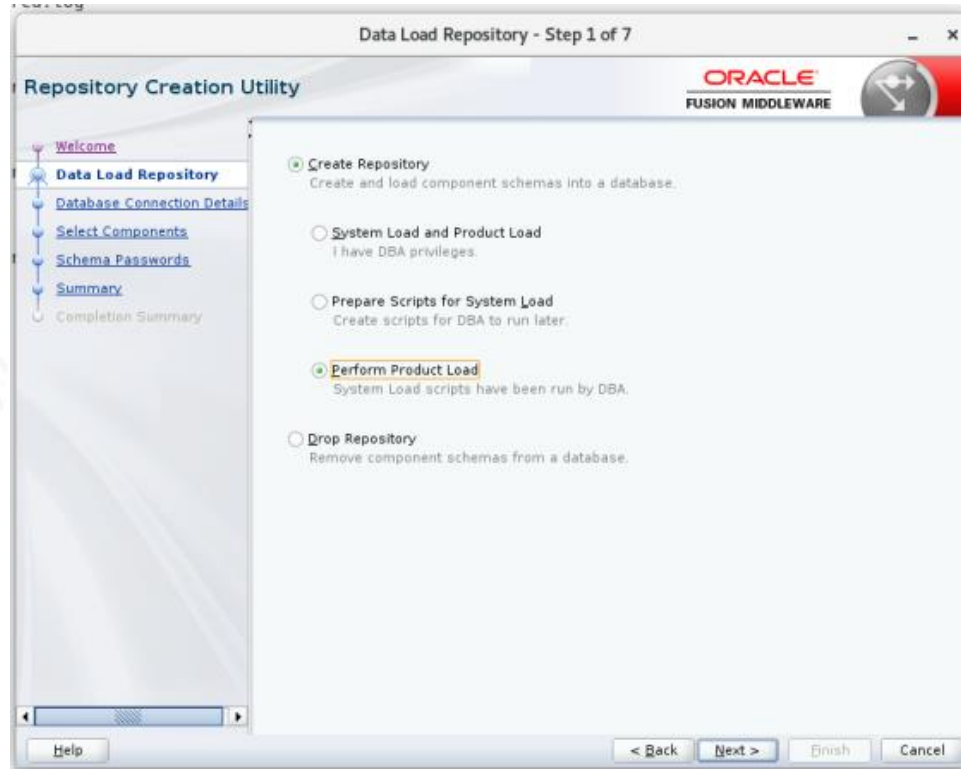
```
oracle@oracle-odi-inst-h9gm:/tmp/RCU2022-08-02_00-24_339504735/logs
File Edit View Search Terminal Help
drwxrwxr-x. 3 oracle oracle 18 Aug 1 23:55 RCU2022-08-01_23-55_1811873194
drwx----- 2 oracle oracle 6 Aug 2 00:16 tracker-extract-files.1001
drwx----- 2 oracle oracle 6 Aug 2 00:16 Temp-ff061328-327e-47e5-8e68-8ddce3d0c806
drwxr-x--- 2 oracle oracle 4096 Aug 2 00:21 wlstOfflineLogs_oracle
drwxrwxr-x. 3 oracle oracle 18 Aug 2 00:21 RCU2022-08-02_00-21_764115817
drwxrwxr-x. 3 oracle oracle 18 Aug 2 00:24 RCU2022-08-02_00-24_339504735
drwxr-xr-x. 2 oracle oracle 18 Aug 2 00:36 hspcrdata_oracle
[oracle@oracle-odi-inst-h9gm tmp]$ cd RCU2022-08-02_00-24_339504735/
[oracle@oracle-odi-inst-h9gm RCU2022-08-02_00-24_339504735]$ ls
logs
[oracle@oracle-odi-inst-h9gm RCU2022-08-02_00-24_339504735]$ cd logs/
[oracle@oracle-odi-inst-h9gm logs]$ ls
iau_append.log iau_viewer.log opss.log script_postDataLoad.sql stb.log
iau.log logger2275291801993698744.properties rcu.log script_systemLoad.sql wls.log
[oracle@oracle-odi-inst-h9gm logs]$ ls -ltr
total 164
-rw-r----- 1 oracle oracle 569 Aug 2 00:24 logger2275291801993698744.properties
-rw-r----- 1 oracle oracle 47878 Aug 2 00:35 rcu.log
-rw-r----- 1 oracle oracle 7269 Aug 2 00:35 stb.log
-rw-r----- 1 oracle oracle 4785 Aug 2 00:35 iau_append.log
-rw-r----- 1 oracle oracle 2482 Aug 2 00:35 iau_viewer.log
-rw-r----- 1 oracle oracle 10841 Aug 2 00:35 wls.log
-rw-r----- 1 oracle oracle 37638 Aug 2 00:35 iau.log
-rw-r----- 1 oracle oracle 1658 Aug 2 00:35 opss.log
-rw-rw-r-- 1 oracle oracle 24456 Aug 2 00:35 script_systemLoad.sql
-rw-rw-r-- 1 oracle oracle 9833 Aug 2 00:35 script_postDataLoad.sql
[oracle@oracle-odi-inst-h9gm logs]$
```

Creación Utilidades Repositorio

```
954  
955  
956 select comp_name, version from schema_version_registry;
```

Resultado de la Consulta				Salida de Script	Salida de DBMS	Explicación
Tiempo de ejecución: 0.01 segundos						
	COMP_NAME	VERSION				
1	Audit Service	12.2.1.2.0				
2	Audit Service Append	12.2.1.2.0				
3	Audit Service Viewer	12.2.1.2.0				
4	Odi Master Repositor	12.1.3.0.0				
5	Oracle Platform Securi	12.2.1.0.0				
6	Service Table	12.2.1.3.0				
7	WebLogic Services	12.2.1.0.0				

Creación Utilidades Repositorio



Creación Utilidades Repositorio

Repository Creation Utility - Step 3 of 7

Repository Creation Utility

ORACLE
FUSION MIDDLEWARE

Database Type: Oracle Database

Connection String Format: ☐ Connection Parameters ☒ Connection String

Connect String: db smece_low?TNS_ADMIN=/home/oracle/Downloads/Wallet_DBSMECE

Host Name:

Port:

Service Name:

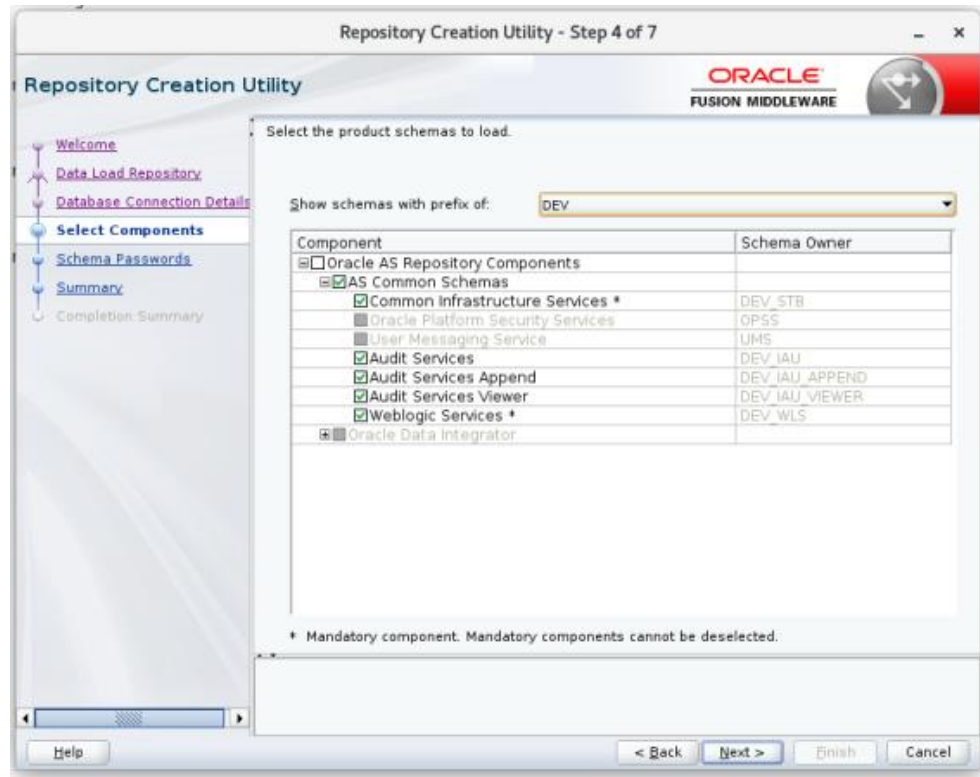
Username: Admin

Password:

Role: Normal

Help < Back Next > Finish Cancel

Creación Utilidades Repositorio



Creación Utilidades Repositorio

The screenshot shows the 'Repository Creation Utility - Step 5 of 7' window. The left sidebar contains a navigation tree with the following items: Welcome, Data Load Repository, Database Connection Details, Select Components, Schema Passwords (highlighted), Summary, and Completion Summary. The main content area is titled 'Define passwords for main and auxiliary schema users.' and contains the following options and fields:

- ☒ Use same passwords for all schemas
 - Password:
Alpha numeric only. Cannot start with a number.
No special characters except: \$, #, ., _.
 - Confirm Password:
- ☐ Use main schema passwords for auxiliary schemas
- ☐ Specify different passwords for all schemas

At the bottom of the window, there is a 'Help' button on the left and navigation buttons '< Back', 'Next >', 'Finish', and 'Cancel' on the right.

Creación Utilidades Repositorio

Repository Creation Utility - Step 6 of 7

Repository Creation Utility

ORACLE
FUSION MIDDLEWARE

Database details:

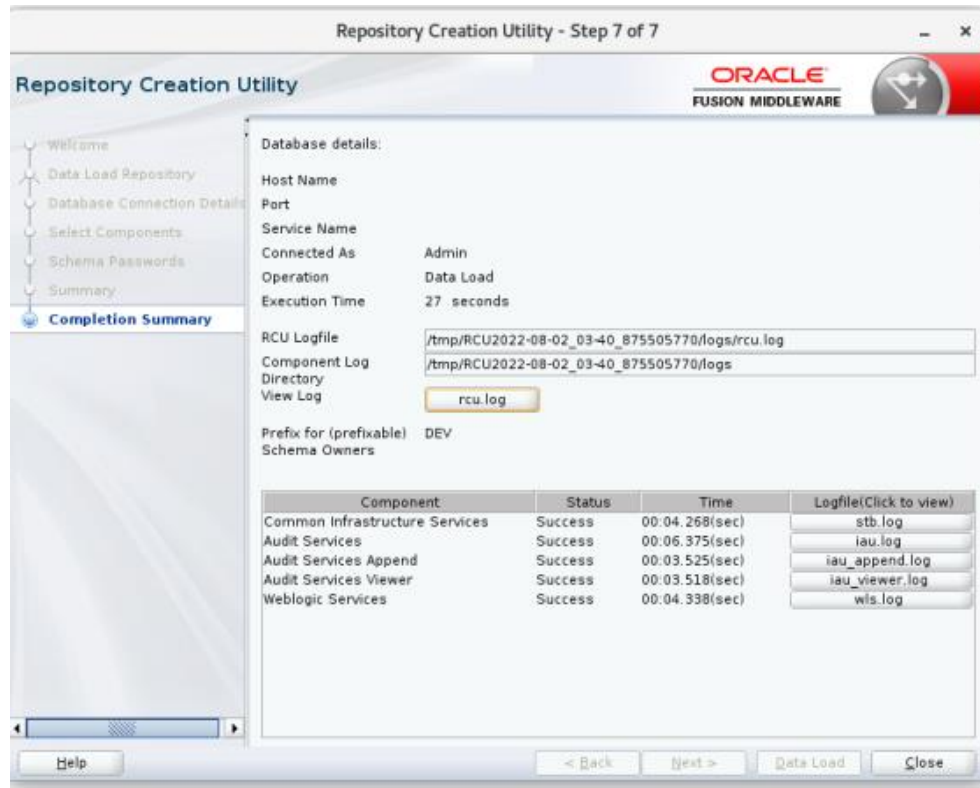
Host Name
Port
Service Name
Connected As Admin
Operation Data Load
Prefix for (prefixable) Schema Owners DEV

Component	Schema Owner	Tablespace Type	Tablespace Name
Common Infrastructure Services	DEV_STB	Default	DEV_STB
		Temp	DEV_IAS_TEMP
		Additional	[None]
Audit Services	DEV_IAU	Default	DEV_IAU
		Temp	DEV_IAS_TEMP
		Additional	[None]
Audit Services Append	DEV_IAU_APPEND	Default	DEV_IAU
		Temp	DEV_IAS_TEMP
		Additional	[None]
Audit Services Viewer	DEV_IAU_VIEWER	Default	DEV_IAU
		Temp	DEV_IAS_TEMP
		Additional	[None]
Weblogic Services	DEV_WLS	Default	DEV_WLS
		Temp	DEV_IAS_TEMP
		Additional	[None]

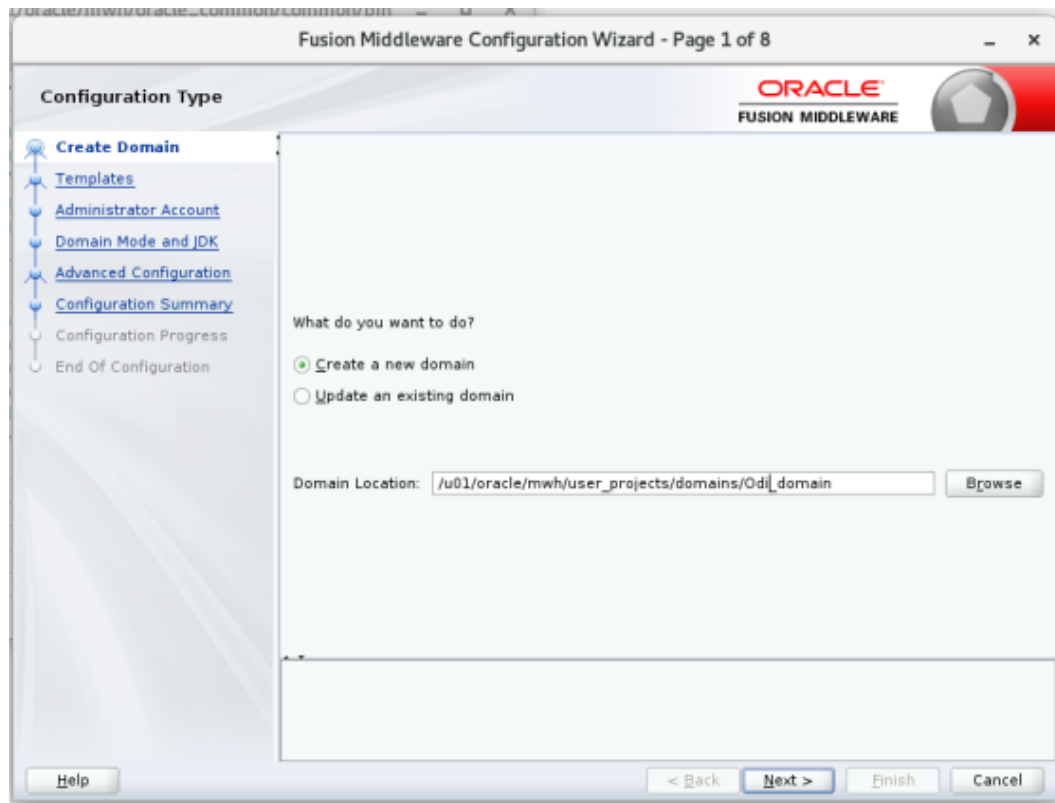
Save Response File

Help < Back Next > Data Load Cancel

Creación Utilidades Repositorio

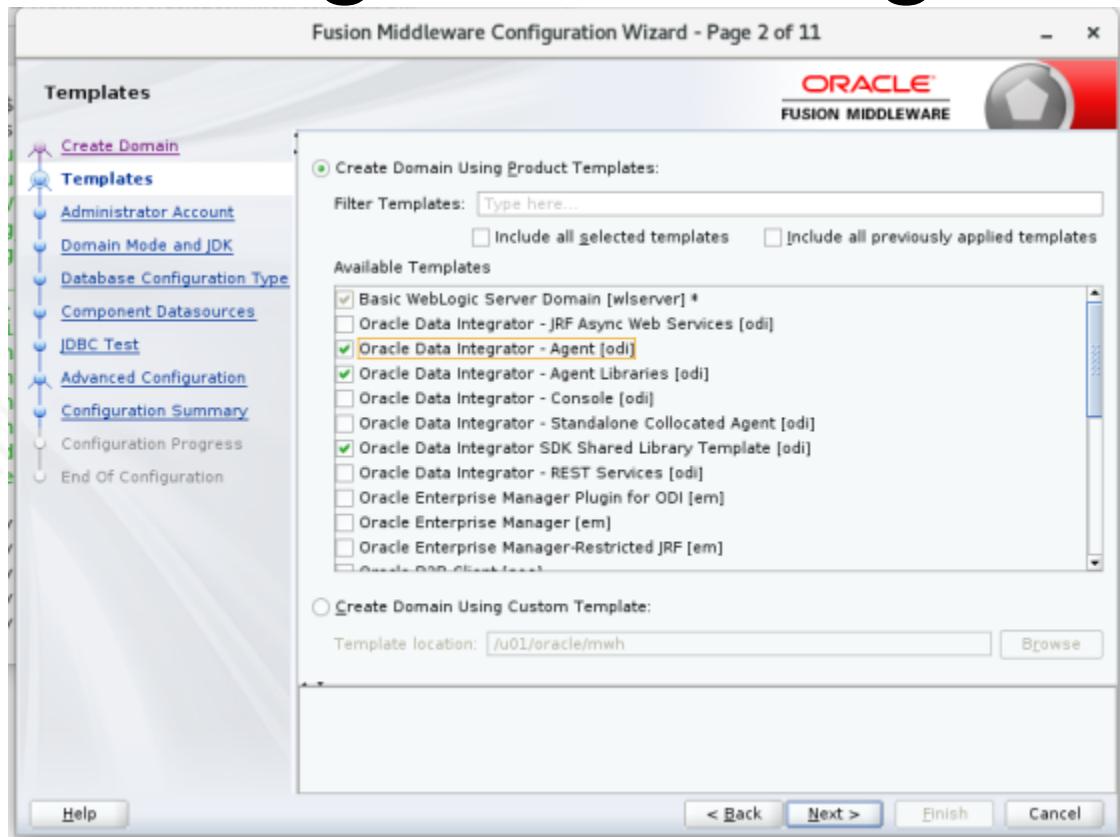


Configuración Agent



/u01/oracle/mwh/oracle_common/common/bin/config.sh

Configuración Agent



Configuración Agent



Fusion Middleware Configuration Wizard - Page 3 of 12

Administrator Account

ORACLE
FUSION MIDDLEWARE

Create Domain
Templates
Administrator Account
Domain Mode and JDK
Database Configuration Type
Component Datasources
JDBC Test
Credentials
Advanced Configuration
Configuration Summary
Configuration Progress
End Of Configuration

Name:

Password:

Confirm Password:

Must be the same as the password. Password must contain at least 8 alphanumeric characters with at least one number or special character.

Help < Back Next > Finish Cancel

Configuración Agent



Fusion Middleware Configuration Wizard - Page 4 of 12

Domain Mode and JDK

ORACLE
FUSION MIDDLEWARE

[Create Domain](#)
[Templates](#)
[Administrator Account](#)
[Domain Mode and JDK](#)
[Database Configuration Type](#)
[Component Datasources](#)
[JDBC Test](#)
[Credentials](#)
[Advanced Configuration](#)
[Configuration Summary](#)
Configuration Progress
End Of Configuration

Domain Mode

☒ **Development**
Utilize boot.properties for username and password, and poll for applications to deploy.

☐ **Production**
Require the entry of a username and password, and do not poll for applications to deploy.

JDK

☒ **Oracle HotSpot 1.8.0_211 /u01/oracle/jdk1.8.0_211**

☐ **Other JDK Location:**

Configuración Agent



Fusion Middleware Configuration Wizard - Page 5 of 12

Database Configuration Type

ORACLE
FUSION MIDDLEWARE

[Create Domain](#)
[Templates](#)
[Administrator Account](#)
[Domain Mode and JDK](#)
[Database Configuration Type](#)
[Component Datasources](#)
[JDBC Test](#)
[Credentials](#)
[Advanced Configuration](#)
[Configuration Summary](#)
[Configuration Progress](#)
[End Of Configuration](#)

Specify AutoConfiguration Options Using:
☒ RCU Data ☐ Manual Configuration

Enter the database connection details using the schema credentials corresponding to Common Infrastructure Services component in the Repository Creation Utility. The Wizard uses this connection to automatically configure the datasources required for components in this domain.

Vendor: Driver:

☐ Connection Parameters ☒ Connection URL String

URL: [Connection Properties](#)

Schema Owner: Schema Password:

[Get RCU Configuration](#) [Cancel](#)

Connection Result Log

Successfully Done.

Click "Next" button to continue.

[Help](#) [< Back](#) [Next >](#) [Finish](#) [Cancel](#)

Configuración Agent



Fusion Middleware Configuration Wizard - Page 6 of 12

JDBC Component Schema

ORACLE
FUSION MIDDLEWARE

Vendor: Oracle Driver: *Oracle's Driver (Thin) for Service connections; Ve

☐ Connection Parameters ☒ Connection URL String

URL: jdbc:oracle:thin:@db smece_low?TNS_ADMIN=/home/oracle/Downloads/Wallet_DBSMECE Connection Properties

Schema Owner: ODI_MASTER Schema Password: *****

Oracle RAC configuration for component schemas:

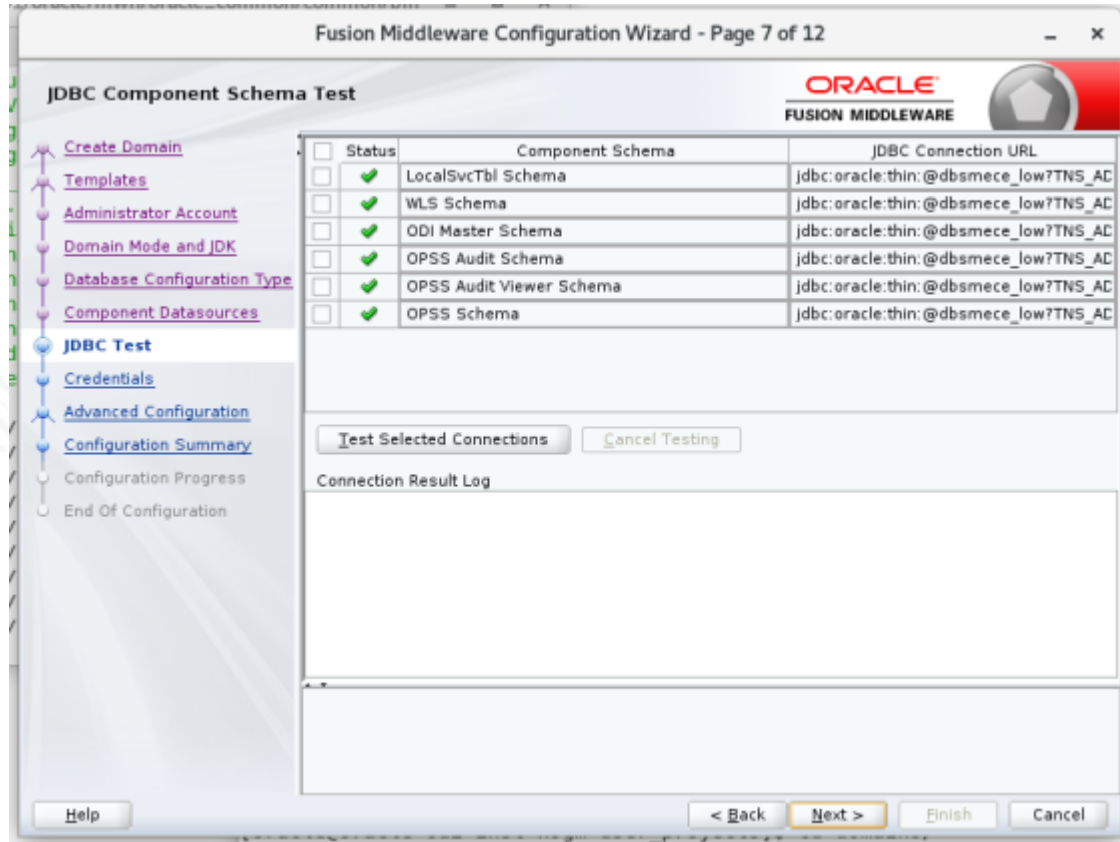
☐ Convert to GridLink ☐ Convert to RAC multi data source ☐ Don't convert

Edits to the data above will affect all checked rows in the table below.

☐	Component Schema	URL	Schema Owner	Schema Password
☐	LocalSvcTbl Schema	jdbc:oracle:thin:@db smece_low?TNS	DEV_STB	*****
☐	WLS Schema	jdbc:oracle:thin:@db smece_low?TNS	DEV_WLS_RUNT	*****
☒	ODI Master Schema	jdbc:oracle:thin:@db smece_low?TNS	ODI_MASTER	*****
☐	OPSS Audit Schema	jdbc:oracle:thin:@db smece_low?TNS	DEV_IAU_APPEN	*****
☐	OPSS Audit Viewer Sch	jdbc:oracle:thin:@db smece_low?TNS	DEV_IAU_VIEWE	*****
☐	OPSS Schema	jdbc:oracle:thin:@db smece_low?TNS	DEV_OPSS	*****

Help < Back Next > Finish Cancel

Configuración Agent



Configuración Agent



Fusion Middleware Configuration Wizard - Page 8 of 12

Credentials

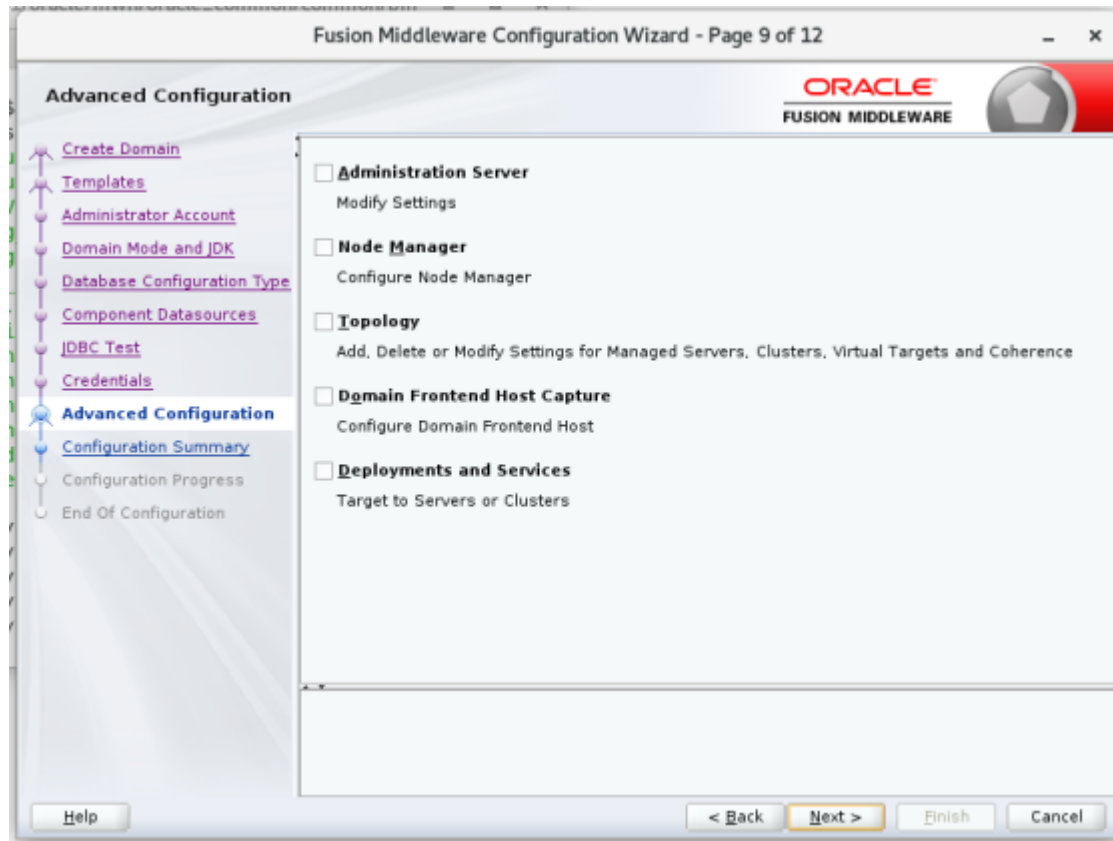
ORACLE
FUSION MIDDLEWARE

+ Add X Delete Discard Changes

Key Name	Username	Password	Store Name
SUPERVISOR	SUPERVISOR	*****	oracle.odi.credmap

Help < Back Next > Finish Cancel

Configuración Agent



Configuración Agent



Fusion Middleware Configuration Wizard - Page 10 of 19

Managed Servers

ORACLE
FUSION MIDDLEWARE

+ Add Clone Delete Discard Changes

Server Name	Listen Address	Listen Port	Enable SSL	SSL Listen Port	Server Groups
ODI_server1	localhost	15101	☐	Disabled	ODI-MGD...

Help < Back Next > Finish Cancel

Configuración Agent



Fusion Middleware Configuration Wizard - Page 10 of 21

Clusters

ORACLE
FUSION MIDDLEWARE

[Update Domain](#)
[Templates](#)
[Application Location](#)
[Database Configuration Type](#)
[Component Datasources](#)
[JDBC Test](#)
[Credentials](#)
[Advanced Configuration](#)
[Managed Servers](#)
Clusters
[Server Templates](#)
[Dynamic Servers](#)
[Assign Servers to Clusters](#)
[Coherence Clusters](#)
[Machines](#)
[Assign Servers to Machines](#)
[Virtual Targets](#)
[Partitions](#)
[Configuration Summary](#)
Configuration Progress

[Add](#) [Delete](#) [Discard Changes](#)

Cluster Name	Cluster Address	Frontend Host	Frontend HTTP	Frontend HTTPS
odi_Cluster_1			0	0

[Help](#) [Back](#) [Next >](#) [Finish](#) [Cancel](#)

Configuración Agent



Fusion Middleware Configuration Wizard - Page 12 of 19

Server Templates

ORACLE
FUSION MIDDLEWARE

[Create Domain](#)
[Templates](#)
[Administrator Account](#)
[Domain Mode and JDK](#)
[Database Configuration Type](#)
[Component Datasources](#)
[JDBC Test](#)
[Credentials](#)
[Advanced Configuration](#)
[Managed Servers](#)
[Clusters](#)
[Server Templates](#)
[Coherence Clusters](#)
[Machines](#)
[Virtual Targets](#)
[Partitions](#)
[Configuration Summary](#)
[Configuration Progress](#)
[End Of Configuration](#)

[+ Add](#) [X Delete](#) [Discard Changes](#)

Name	Listen Port	SSL Listen Port	Enable SSL
wsm-cache-server-temp	7100	8100	☐
odi-server-template	7100	8100	☐

[Help](#) [< Back](#) [Next >](#) [Finish](#) [Cancel](#)

Configuración Agent



Fusion Middleware Configuration Wizard - Page 12 of 21

Dynamic Servers

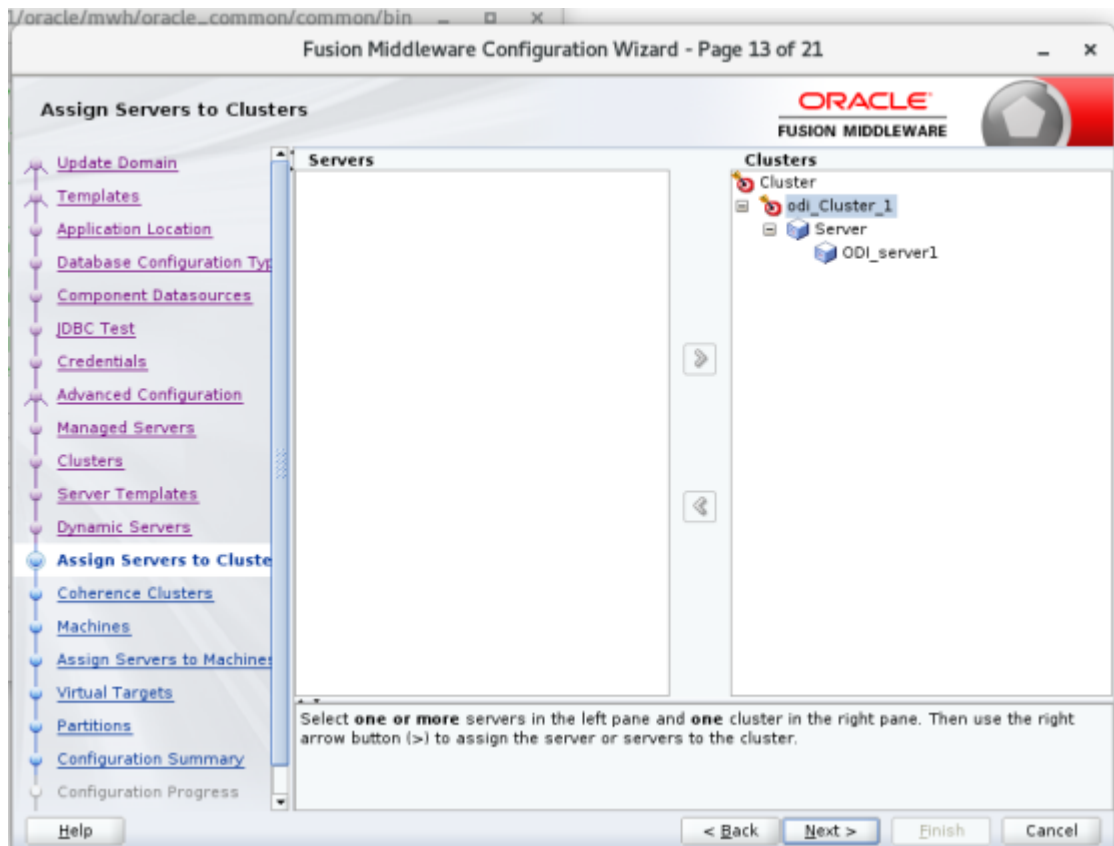
ORACLE
FUSION MIDDLEWARE

Disard Changes

Cluster Name	Server Name Prefix	Server Template	Dynamic Cluster Size	Machine Name Match Expression	Calculated Machine Names	Calculated Listen Ports	Dynamic Server Groups
odi_Cluster	Disabled	Unspec...	Disabled	Disabled	☐	☐	Unspec...

Help < Back Next > Finish Cancel

Configuración Agent



Configuración Agent



Fusion Middleware Configuration Wizard - Page 13 of 19

Coherence Clusters

ORACLE
FUSION MIDDLEWARE

Disard Changes

Cluster Name	Cluster Listen Port
defaultCoherenceCluster	7574

Help < Back Next > Finish Cancel

Configuration Summary

- Create Domain
- Templates
- Administrator Account
- Domain Mode and JDK
- Database Configuration Type
- Component Datasources
- JDBC Test
- Credentials
- Advanced Configuration
- Managed Servers
- Clusters
- Server Templates
- Coherence Clusters**
- Machines
- Virtual Targets
- Partitions
- Configuration Summary
- Configuration Progress
- End Of Configuration

Configuración Agent



Fusion Middleware Configuration Wizard - Page 15 of 21

Machines

ORACLE
FUSION MIDDLEWARE

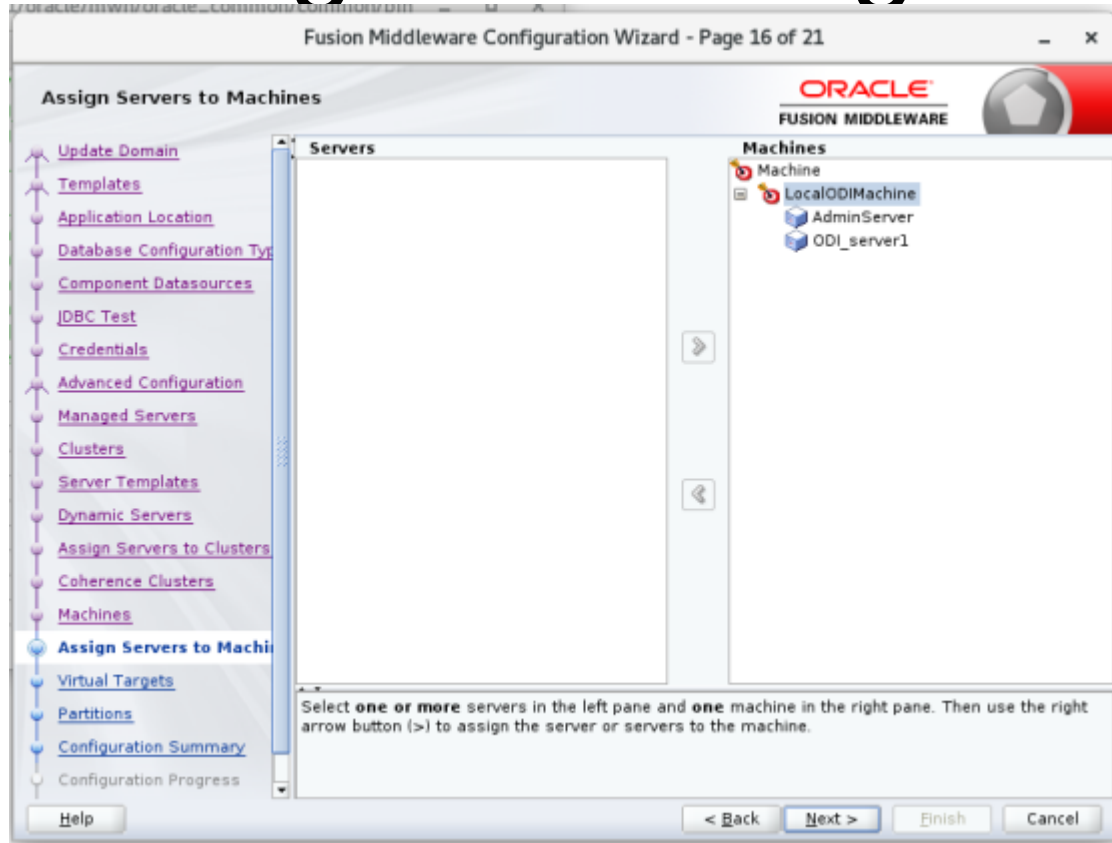
Machine: Unix Machine

+ Add - Delete Disard Changes

Name	Node Manager Listen Address	Node Manager Listen Port
LocalODIMachine	localhost	5556

Help < Back Next > Finish Cancel

Configuración Agent



Configuración Agent



Fusion Middleware Configuration Wizard - Page 15 of 19

Virtual Targets

ORACLE
FUSION MIDDLEWARE

+ Add X Delete Discard Changes

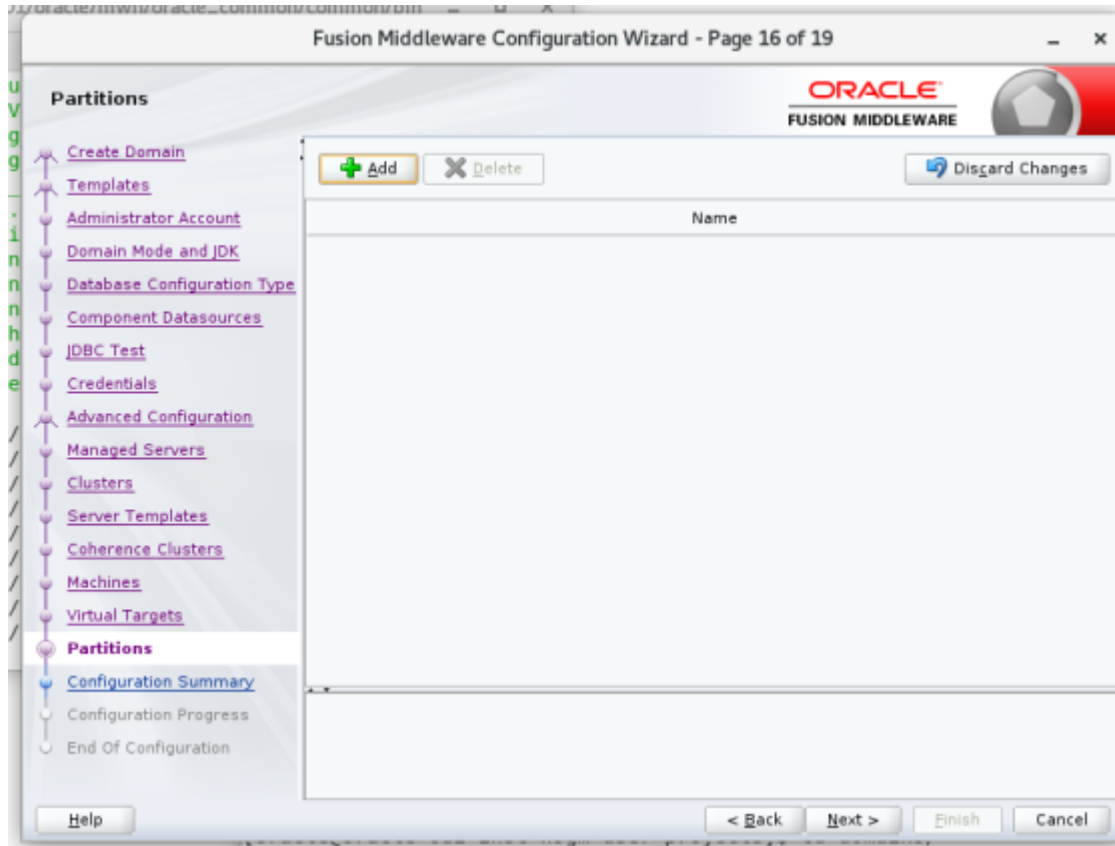
Name	Target	Host	URI Prefix	Explicit	Port
------	--------	------	------------	----------	------

Help < Back Next > Finish Cancel

Virtual Targets

- Create Domain
- Templates
- Administrator Account
- Domain Mode and JDK
- Database Configuration Type
- Component Datasources
- JDBC Test
- Credentials
- Advanced Configuration
- Managed Servers
- Clusters
- Server Templates
- Coherence Clusters
- Machines
- Virtual Targets**
- Partitions
- Configuration Summary
- Configuration Progress
- End Of Configuration

Configuración Agent



Configuración Agent



Fusion Middleware Configuration Wizard - Page 19 of 24

System Components

ORACLE
FUSION MIDDLEWARE

+ Add - Delete Discard Changes

System Component	Component Type	Restart Interval	Restart Delay Seconds
OracleDLAgent1	ODI	3600	0

Update Domain
Templates
Application Location
Database Configuration Type
Component Datasources
JDBC Test
Credentials
Advanced Configuration
Managed Servers
Clusters
Server Templates
Dynamic Servers
Assign Servers to Clusters
Coherence Clusters
Machines
Assign Servers to Machines
Virtual Targets
Partitions
System Components
ODI Server Configuration

Help < Back Next > Finish Cancel

Configuración Agent



Fusion Middleware Configuration Wizard - Page 20 of 24

ODI Server Configuration

ORACLE
FUSION MIDDLEWARE

Update Domain
Templates
Application Location
Database Configuration Type
Component Datasources
JDBC Test
Credentials
Advanced Configuration
Managed Servers
Clusters
Server Templates
Dynamic Servers
Assign Servers to Clusters
Coherence Clusters
Machines
Assign Servers to Machines
Virtual Targets
Partitions
System Components
ODI Server Configuration

System Component: OracleDIAgent1

Server Listen Address: localhost

Server Listen Port: 20910

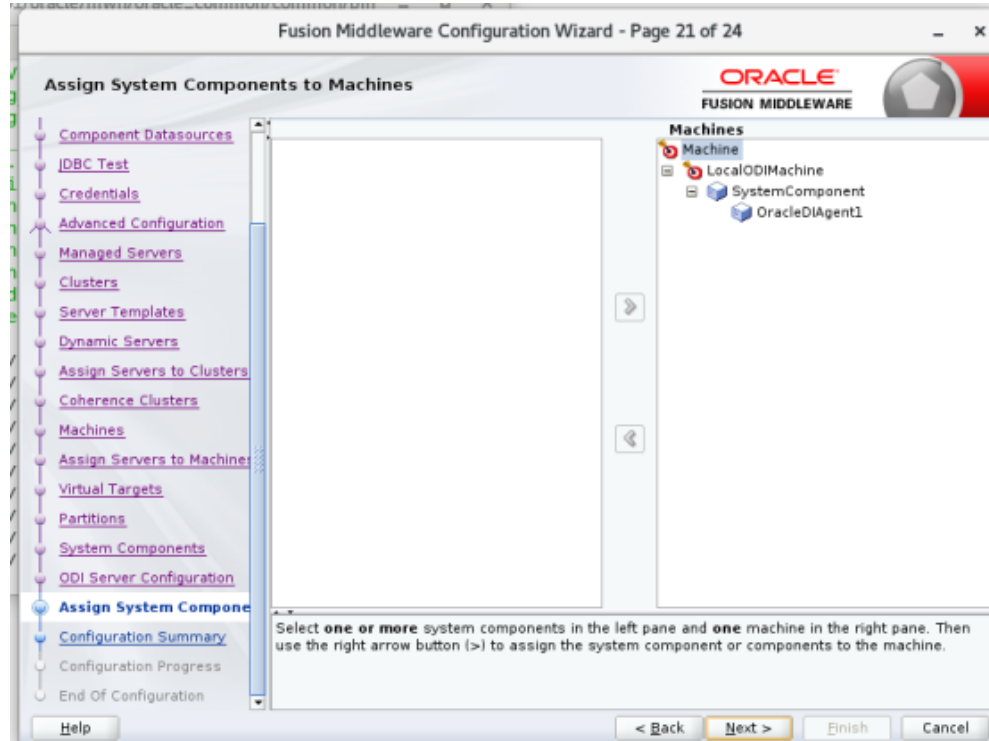
Supervisor Username: SUPERVISOR

Supervisor Password:

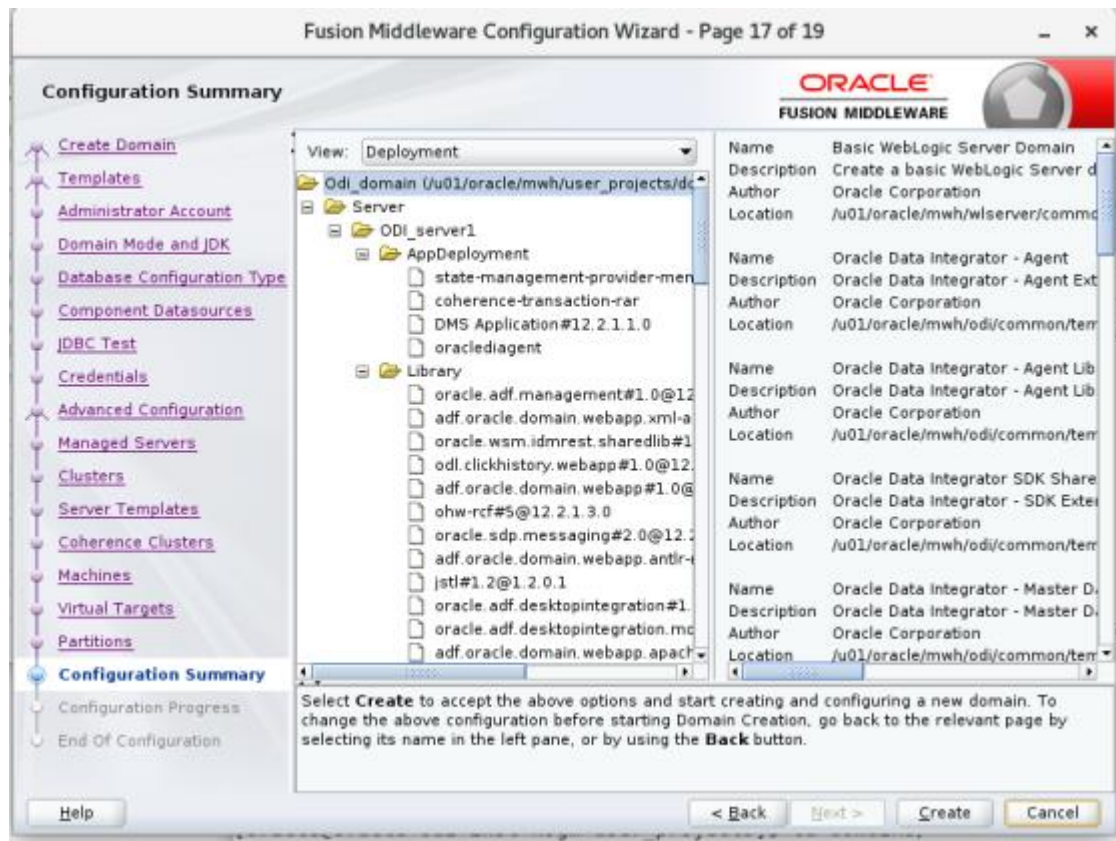
Preferred Datasource: odiMasterRepository

Help < Back Next > Finish Cancel

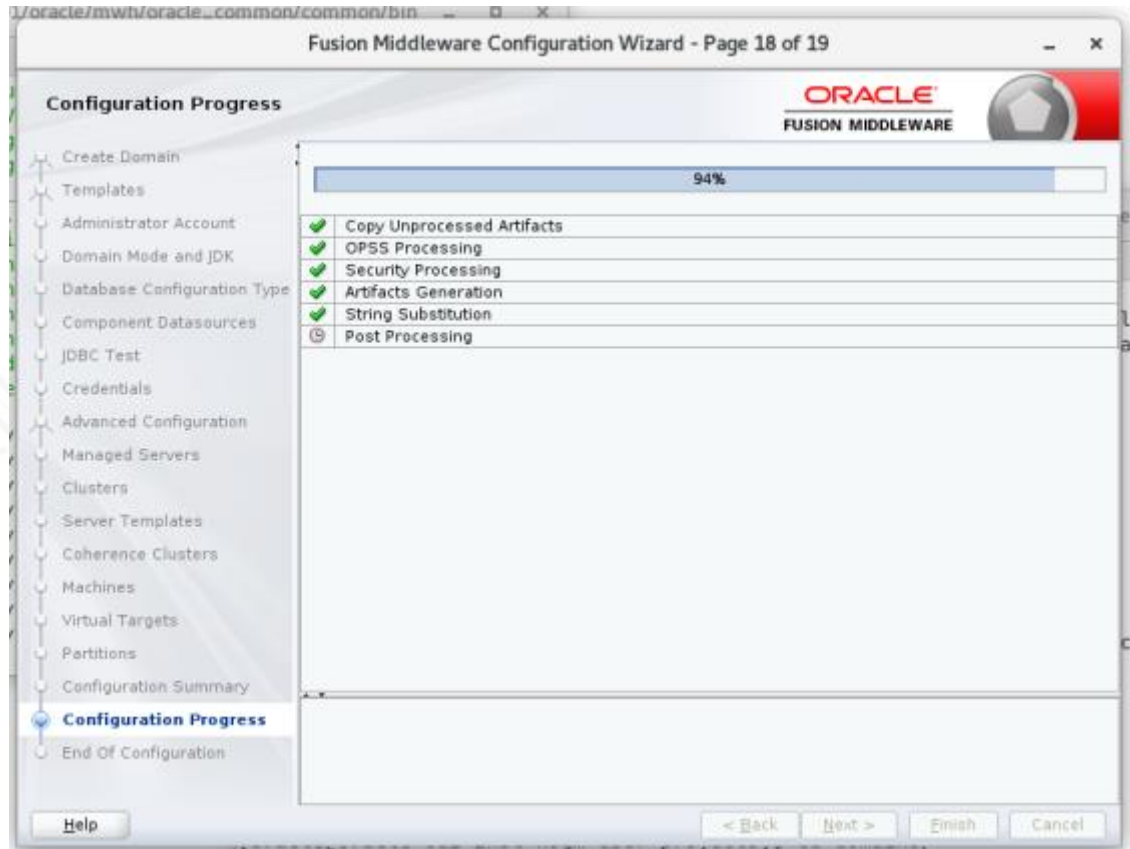
Configuración Agent



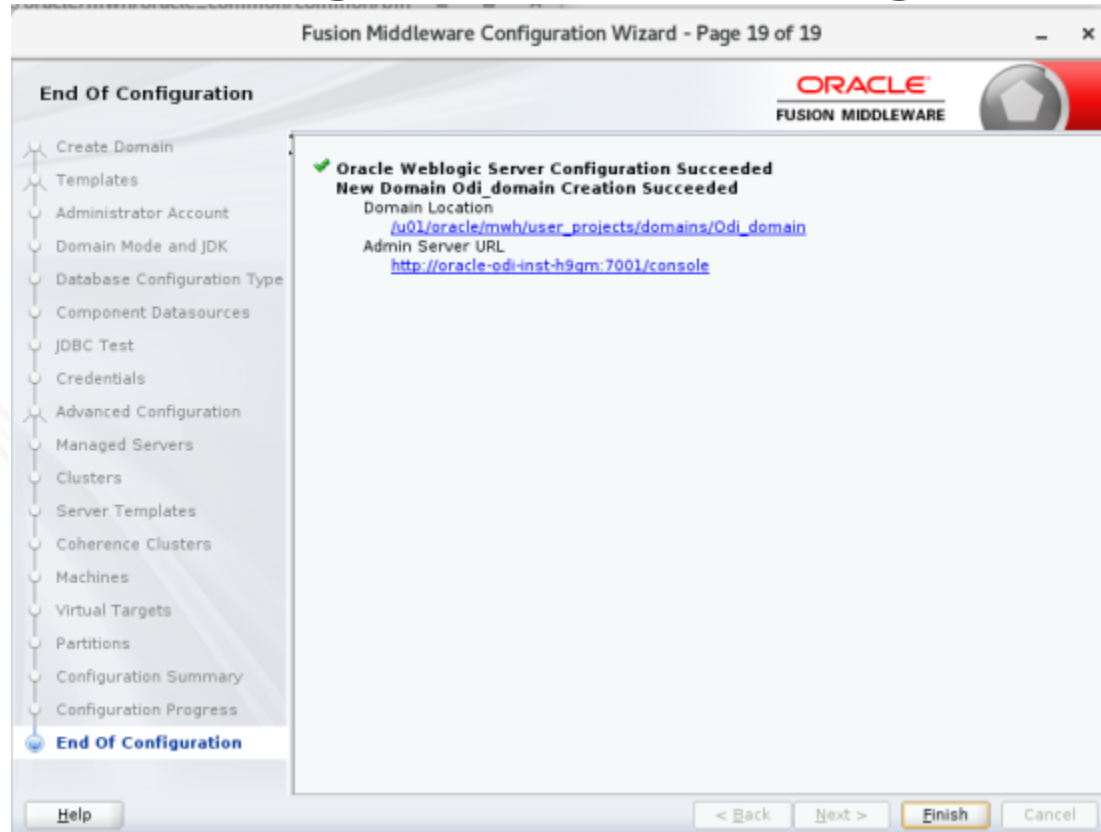
Configuración Agent



Configuración Agent



Configuración Agent



Ajecutar Agent

```
[oracle@oracle-odi-inst-h9gm Odi domain]$ cd bin/
[oracle@oracle-odi-inst-h9gm bin]$ ./agent.sh -NAME=OracleDIAgent1
[main] INFO org.apache.sshd.common.io.DefaultIoServiceFactoryFactory - No detected/configured IoServiceFactoryFactory using Nio2ServiceFactoryFactory
2022-08-02 13:13:54.404 NOTIFICATION New data source: [ODI_MASTER/*****@jdbc:oracle:thin:@dbsmece_low?TNS_ADMIN=/home/oracle/Downloads/Wallet_DBSMECE]
2022-08-02 13:13:54.477 NOTIFICATION Ignoring DataSource customization because provider class was not DriverManagerDataSourceProvider
2022-08-02 13:13:57.816 NOTIFICATION ODI-1128 Agent OracleDIAgent1 is starting. Container: STANDALONE, Agent Version: 12.2.1, Port: 20910, JMX Port: 21910.
[main] INFO org.springframework.web.context.ContextLoader - Root WebApplicationContext: initialization started
[main] INFO org.springframework.context.support.PostProcessorRegistrationDelegate$BeanPostProcessorChecker - Bean 'AgentName' of type [org.springframework.jndi
ObjectFactoryBean] is not eligible for getting processed by all BeanPostProcessors (for example: not eligible for auto-proxying)
[main] INFO org.springframework.context.support.PostProcessorRegistrationDelegate$BeanPostProcessorChecker - Bean 'AgentName' of type [java.lang.String] is not
eligible for getting processed by all BeanPostProcessors (for example: not eligible for auto-proxying)
[main] INFO org.springframework.web.context.ContextLoader - Root WebApplicationContext initialized in 482 ms
Allowing : 127.0.0.1,10.0.17.65,127.0.0.1
```

Test Agent



Start Page OracleDIAgent1

View Schedule Update Schedule Test Generate Server Template Apply Settings

Definition

Agent

Name: OracleDIAgent1

Host: localhost Port: 20910

Web application context: oraclediagent Protocol: http

Maximum number of sessions: 100

Maximum number of threads: 100 Maximum threads per session: 0

Session Blueprint Cache Management

Maximum cache entries: 100

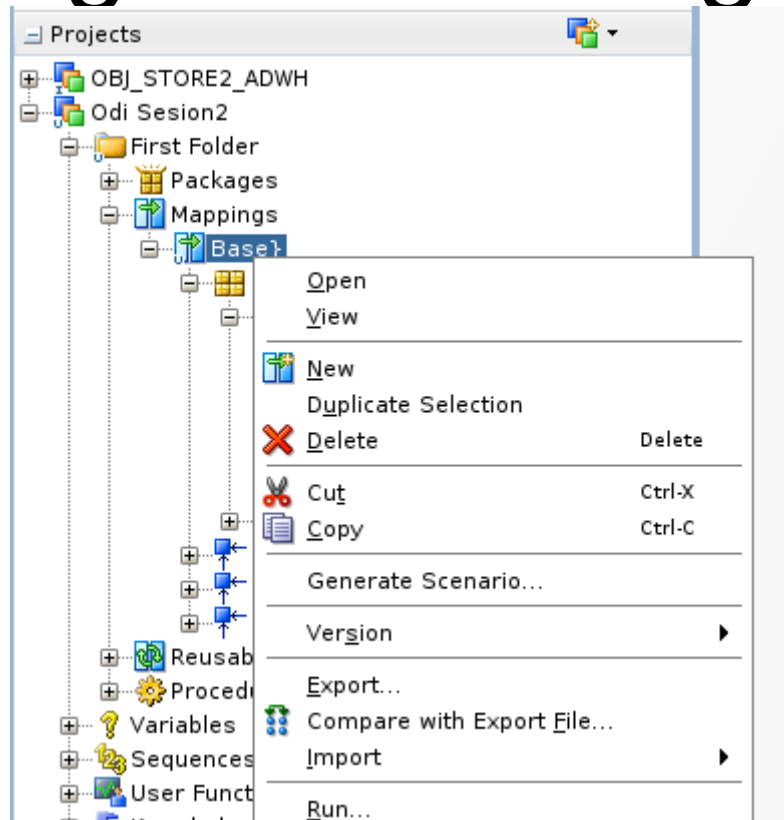
Unused Blueprint Lifetime (Sec): 600

Information x

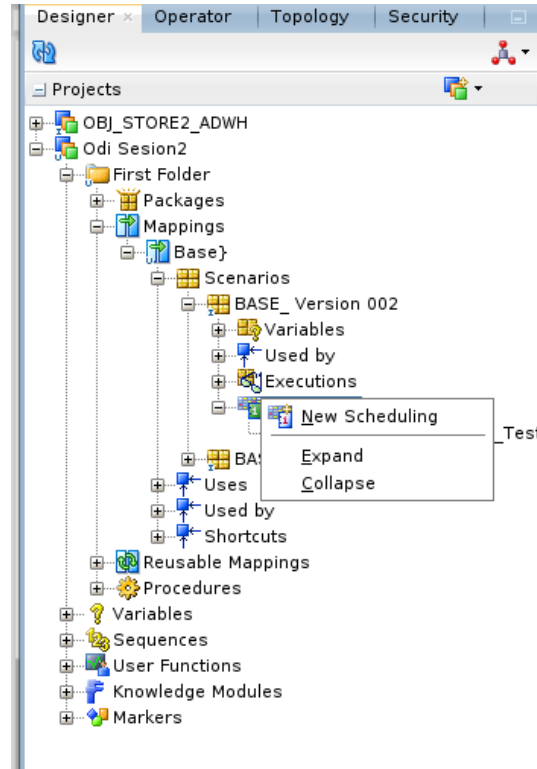
 OracleDIAgent1 Test Successful. Agent Version: 12.2.1

OK

Programar en agent



Programar en agent



Programar en agent



Start Page x Scenario Scheduling GLOBAL / ODI_Agent_Test x

Definition

Execution Cycle
Variables
Privileges
Version

Scheduling [Scenario: BASE_ / 002]

Context: Logical Agent:

Log Level:

Status

☒ Active
☐ Inactive
☐ Active for the period:

☐ Starting: Date: Time:

☐ Ending: Date: Time:

☐ Every day between: from: to:

☐ Except these days of the month

☐ Except these days of the week: ☐ Monday ☐ Tuesday ☐ Wednesday ☐ Thursday
☐ Friday ☐ Saturday ☐ Sunday

Execution

☐ On startup Time: Minute(s):Second(s)
☐ Simple
☒ Hourly
☐ Daily
☐ Weekly
☐ Monthly (day of the month)

Sincronizar en agent



The screenshot shows the OracleDI Agent configuration window. The 'Agent' tab is active, displaying fields for Name, Host, Web application context, Maximum number of sessions, and Maximum number of threads. A 'Session Blueprint Cache Management' section is also visible. A 'Select Repositories' dialog box is open in the foreground, showing a list of repositories with 'ODI_WORK' selected. The dialog box has buttons for Help, OK, and Cancel.

Definition

- Datasources
- Properties
- Load balancing
- Version
- Privileges
- Flexfields

Agent

Name: OracleDIAgent1

Host: localhost

Web application context: oraclediagent

Maximum number of sessions: 100

Maximum number of threads: 100

Session Blueprint Cache Management

Maximum cache entries: 100

Unused Blueprint Lifetime (Sec): 600

Select Repositories

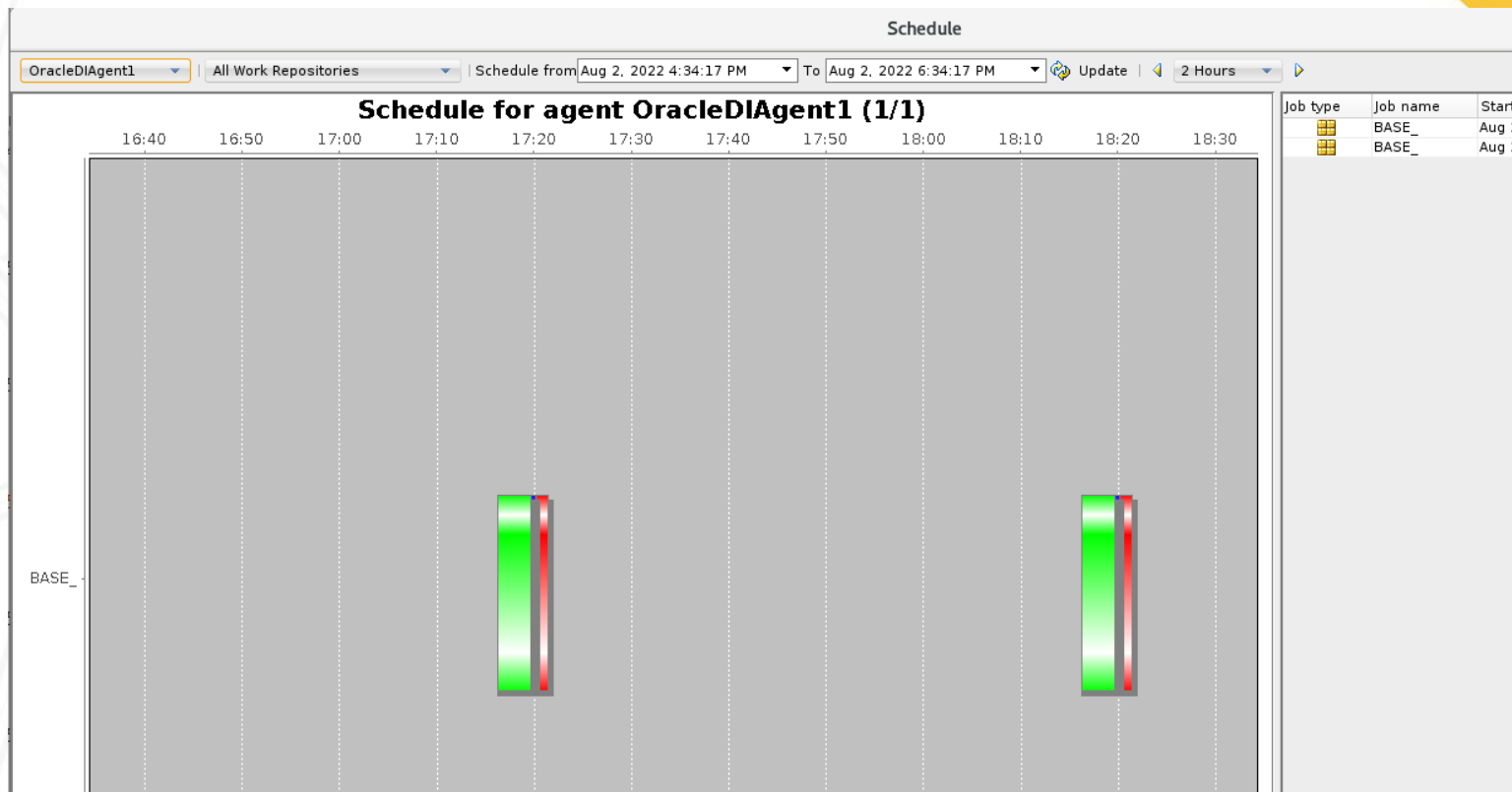
Refresh schedules from the following repositories:

- ODI_WORK

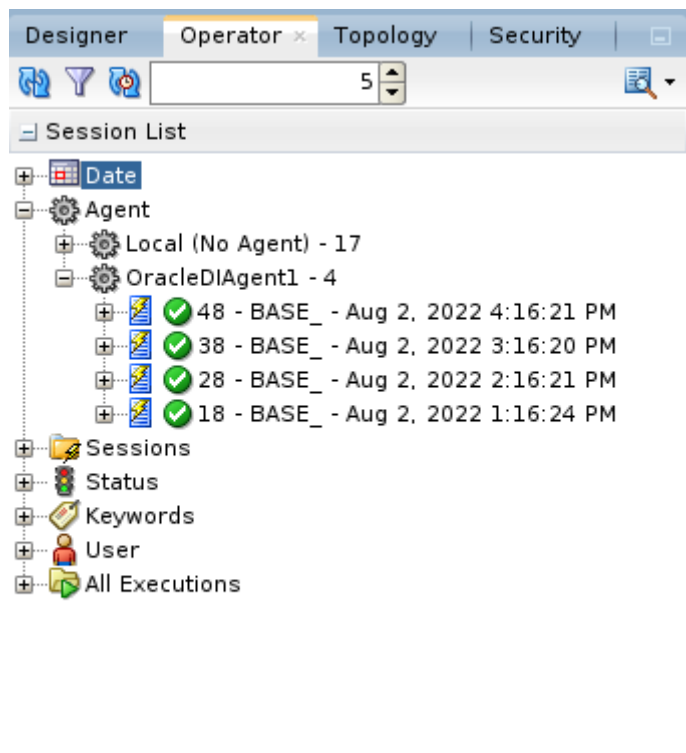
Select All Work Repositories: ☒

Help OK Cancel

Detaller agent



Log en agent ODI



Log agent



```
oracle@oracle-odi-inst-h9gm:/u01/oracle/mwh/user_projects/domains/Odi_domain/bin
File Edit View Search Terminal Help
east-1.oraclecloud.com, OU=Oracle BMCS US, O=Oracle Corporation, L=Redwood City, ST=California, C=US''''}]
2022-08-02 15:16:21.650 WARNING SQLCommand execution failure: ORA-00942: table or view does not exist

Failed query text:

drop table SMECE.C$_0ARC

2022-08-02 15:16:22.406 NOTIFICATION New data source: [*jdbc:snps:dbfile]
2022-08-02 16:16:16.729 NOTIFICATION New data source: [ODI_WORK/*****@jdbc:oracle:thin:@ (description= (retry_count=20)(retry_delay=3)(address=(protocol=tcps)(port=1522)(host=adb.us-ashburn-1.oraclecloud.com))(connect_data=(service_name=g9b7ee494538a10_dbsmece_high.adb.oraclecloud.com))(security=(ssl_server_cert_dn="CN=adwc.uscom-east-1.oraclecloud.com, OU=Oracle BMCS US, O=Oracle Corporation, L=Redwood City, ST=California, C=US")))]
2022-08-02 16:16:18.323 WARNING odi.core.security.SecurityManager.loadAuthenticationMode found the authMode:mUsingLDAPAuthentication: false,mUsingIDCSAuthentication: false,indExternalAuth:null.
2022-08-02 16:16:18.353 NOTIFICATION Created OdiInstance instance id=4
2022-08-02 16:16:21.602 NOTIFICATION New data source: [SMECE/*****@jdbc:oracle:thin:@ (description= (retry_count=20)(retry_delay=3)(address=(protocol=tcps)(port=1522)(host=adb.us-ashburn-1.oraclecloud.com))(connect_data=(service_name=g9b7ee494538a10_dbsmece_low.adb.oraclecloud.com))(security=(ssl_server_cert_dn="CN=adwc.uscom-east-1.oraclecloud.com, OU=Oracle BMCS US, O=Oracle Corporation, L=Redwood City, ST=California, C=US")))]
2022-08-02 16:16:22.098 WARNING SQLCommand execution failure: ORA-00942: table or view does not exist

Failed query text:

drop table SMECE.C$_0ARC

2022-08-02 16:16:22.659 NOTIFICATION New data source: [*jdbc:snps:dbfile]
```

Nuevo agent



Start Page OracleDIAgent2

View Schedule Update Schedule Test Generate Server Template Apply Settings

Definition

- Datasources
- Properties
- Load balancing
- Version
- Privileges
- Flexfields

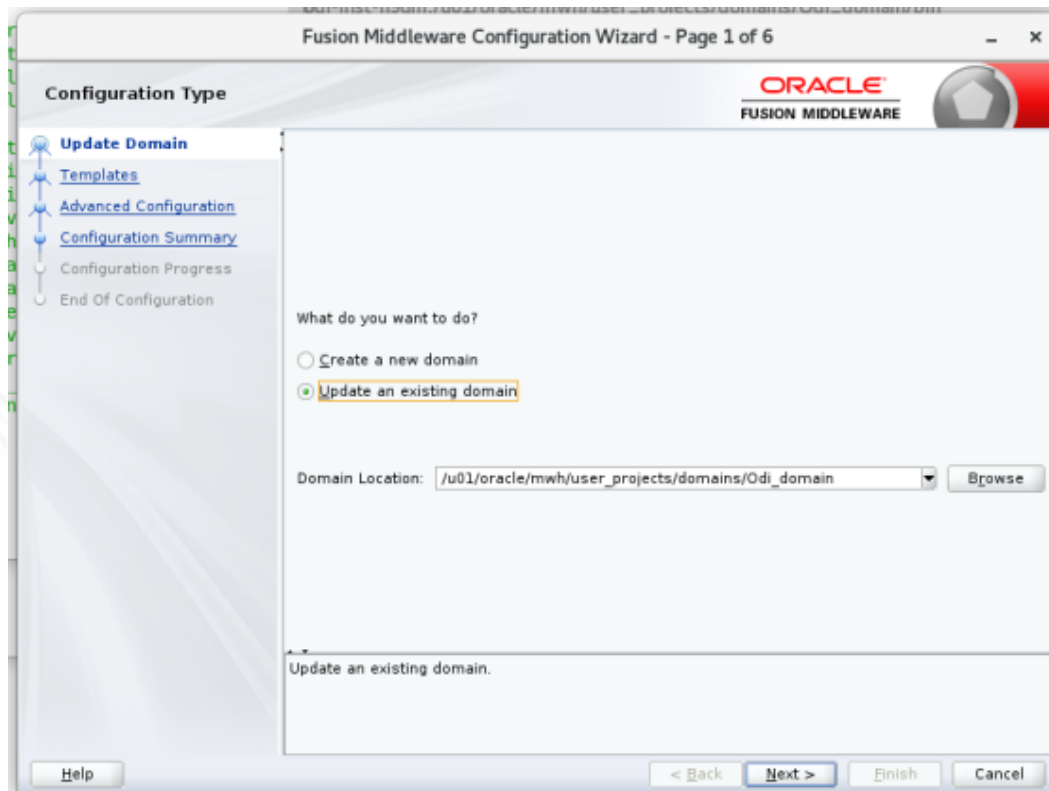
Agent

Name:	OracleDIAgent2		
Host:	localhost	Port:	20911
Web application context:	oraclediagent	Protocol:	http
Maximum number of sessions:	100		
Maximum number of threads:	100	Maximum threads per session:	0

Session Blueprint Cache Management

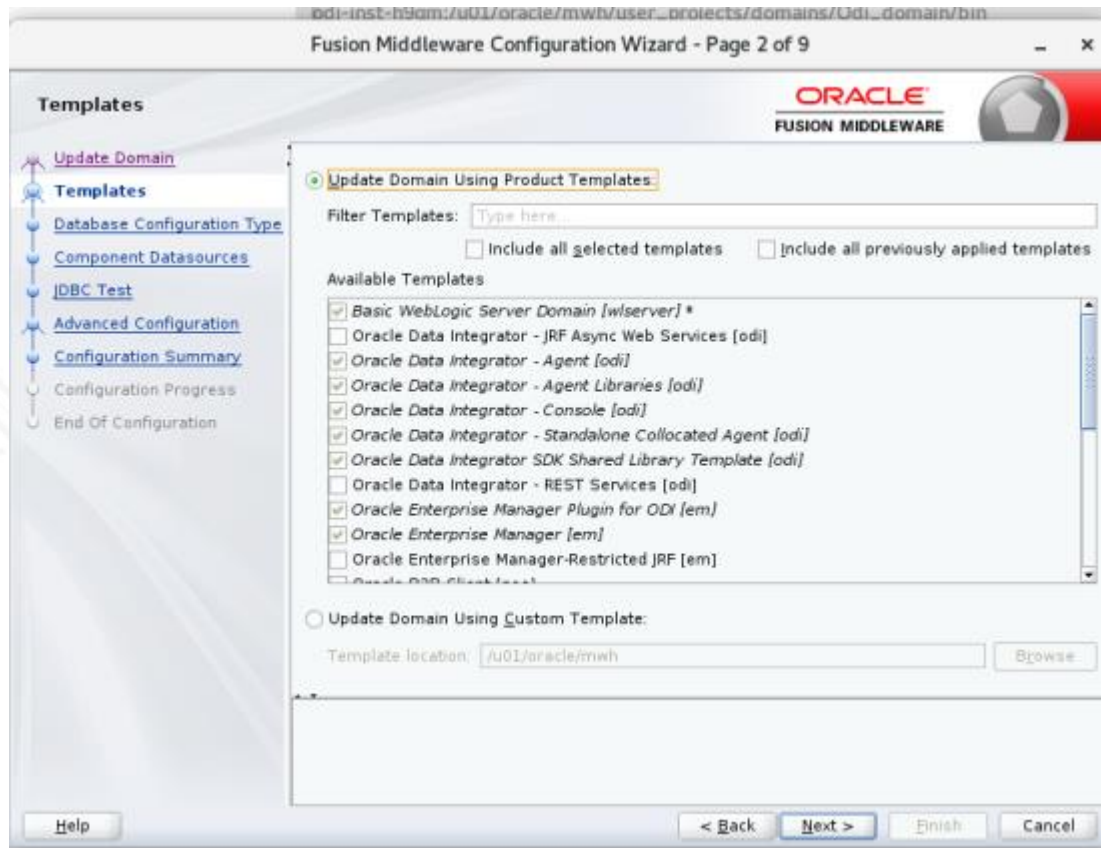
Maximum cache entries:	100
Unused Blueprint Lifetime (Sec):	600

Nuevo Agent



/u01/oracle/mwh/oracle_common/common/bin/config.sh

Nuevo Agent



Nuevo Agent



Fusion Middleware Configuration Wizard - Page 3 of 9

Database Configuration Type

ORACLE
FUSION MIDDLEWARE

Update Domain
Templates
Database Configuration Type
Component Datasources
JDBC Test
Advanced Configuration
Configuration Summary
Configuration Progress
End Of Configuration

Specify AutoConfiguration Options Using:
☒ RCU Data ☐ Manual Configuration

Enter the database connection details using the schema credentials corresponding to Common Infrastructure Services component in the Repository Creation Utility. The Wizard uses this connection to automatically configure the datasources required for components in this domain.

Vendor: Oracle Driver: *Oracle's Driver (Thin) for Service connections; ...

☐ Connection Parameters ☒ Connection URL String

URL: jdbc:oracle:thin:@dbsmece_low?TNS_ADMIN=/home/oracle/Downloads/Wallet_DBSMECE Connection Properties

Schema Owner: DEV_STB Schema Password:

Get RCU Configuration Cancel

Connection Result Log

Successfully Done.

Click "Next" button to continue.

Help < Back Next > Finish Cancel

Nuevo Agent



Fusion Middleware Configuration Wizard - Page 4 of 9

JDBC Component Schema

ORACLE
FUSION MIDDLEWARE

Update Domain
Templates
Database Configuration Type
Component Datasources
JDBC Test
Advanced Configuration
Configuration Summary
Configuration Progress
End Of Configuration

Vendor: Driver:

☐ Connection Parameters ☒ Connection URL String

URL: [Connection Properties](#)

Schema Owner: Schema Password:

Oracle RAC configuration for component schemas:

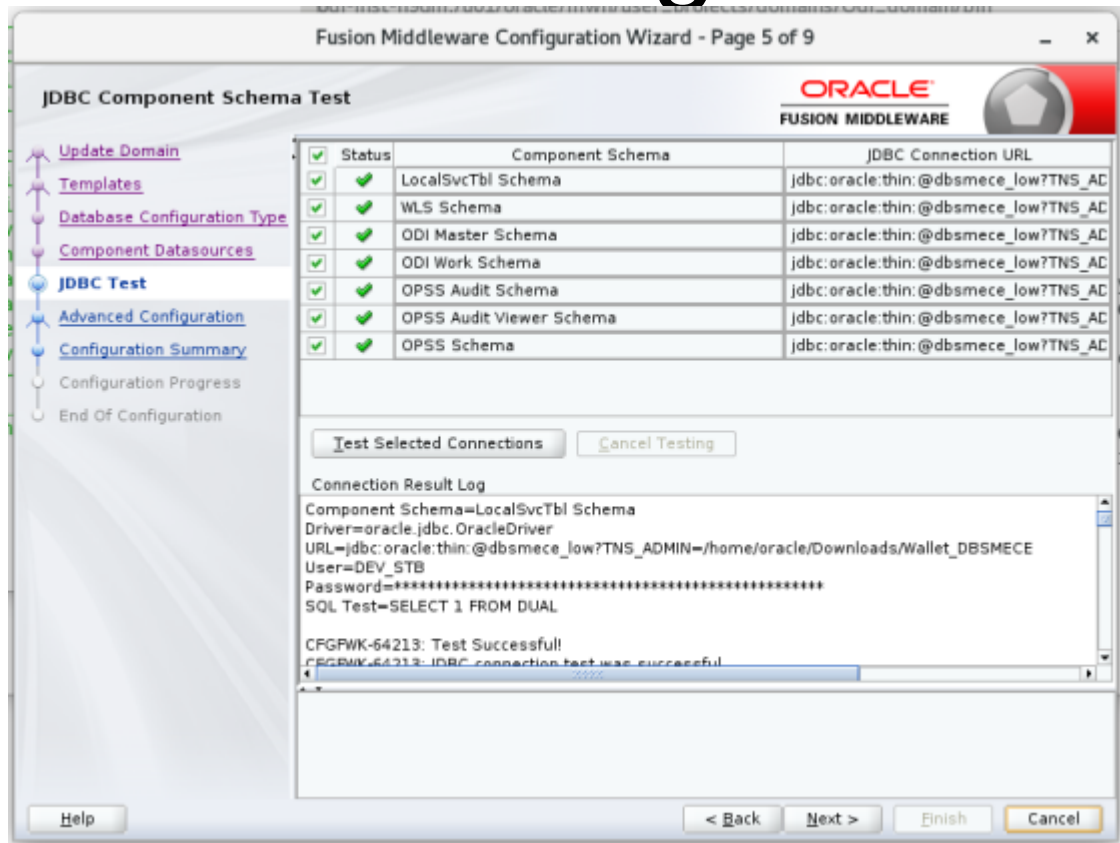
☐ Convert to GridLink ☐ Convert to RAC multi data source ☐ Don't convert

Edits to the data above will affect all checked rows in the table below.

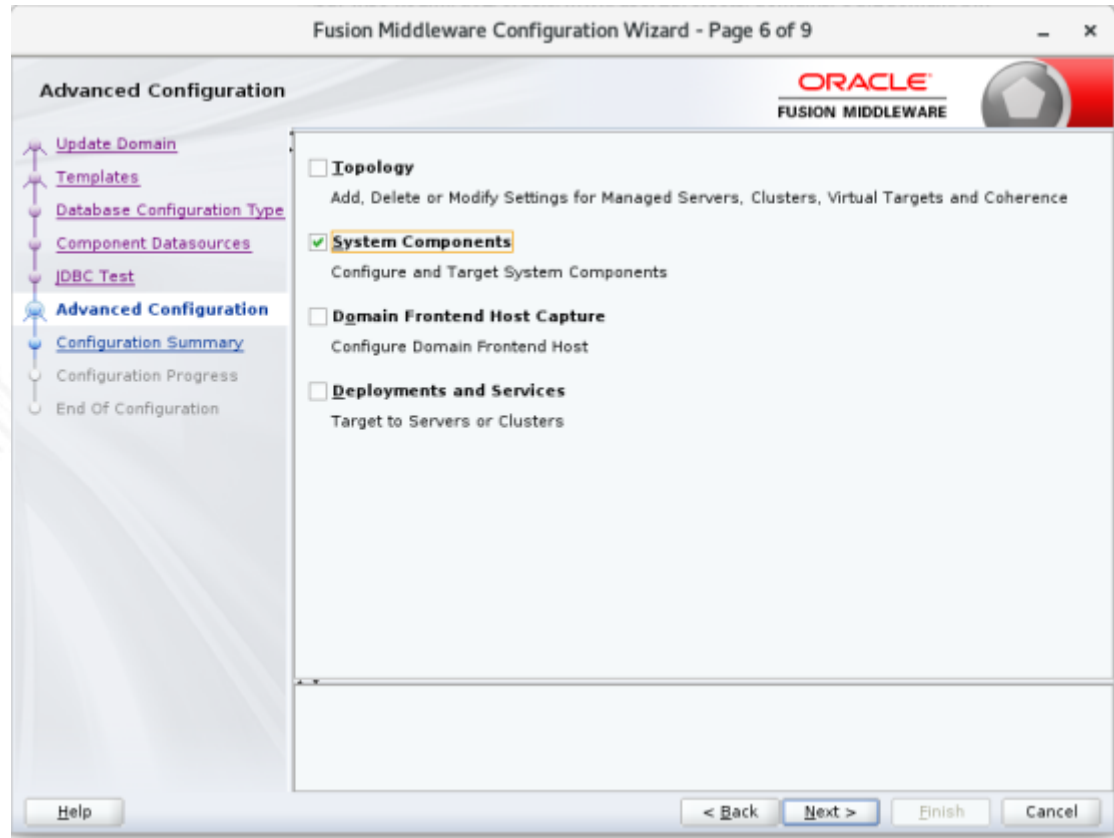
☐ Component Schema	URL	Schema Owner	Schema Password
☐ LocalSvcTbl Schema	jdbc:oracle:thin:@dbamece_low?TNS	DEV_STB	*****
☐ WLS Schema	jdbc:oracle:thin:@dbamece_low?TNS	DEV_WLS_RUN	*****
☐ ODI Master Schema	jdbc:oracle:thin:@dbamece_low?TNS	ODI_MASTER	*****
☐ ODI Work Schema	jdbc:oracle:thin:@dbamece_low?TNS	ODI_WORK	*****
☐ OPSS Audit Schema	jdbc:oracle:thin:@dbamece_low?TNS	DEV_IAU_APPEI	*****
☐ OPSS Audit Viewer Sc	jdbc:oracle:thin:@dbamece_low?TNS	DEV_IAU_VIEWE	*****
☐ OPSS Schema	jdbc:oracle:thin:@dbamece_low?TNS	DEV_OPSS	*****

Help < Back Next > Finish Cancel

Nuevo Agent



Nuevo Agent



Nuevo Agent



Fusion Middleware Configuration Wizard - Page 7 of 12

System Components

ORACLE
FUSION MIDDLEWARE

[Update Domain](#)
[Templates](#)
[Database Configuration Type](#)
[Component Datasources](#)
[JDBC Test](#)
[Advanced Configuration](#)
System Components
[ODI Server Configuration](#)
[Machines](#)
[Configuration Summary](#)
Configuration Progress
End Of Configuration

[+ Add](#) [X Delete](#) [Discard Changes](#)

System Component	Component Type	Restart Interval	Restart Delay Seconds
OracleDIAgent1	ODI	3600	0
OracleDIAgent2	ODI	3600	0

[Help](#) [< Back](#) [Next >](#) [Finish](#) [Cancel](#)

Nuevo Agent



Fusion Middleware Configuration Wizard - Page 8 of 12

ODI Server Configuration

ORACLE
FUSION MIDDLEWARE

[Update Domain](#)
[Templates](#)
[Database Configuration Type](#)
[Component Datasources](#)
[JDBC Test](#)
[Advanced Configuration](#)
[System Components](#)
[ODI Server Configuration](#)
[Machines](#)
[Configuration Summary](#)
Configuration Progress
End Of Configuration

System Component: OracleDIAgent2

Server Listen Address: localhost

Server Listen Port: 20911

Supervisor Username: SUPERVISOR

Supervisor Password:

Preferred Datasource: odiMasterRepository

Help < Back Next > Finish Cancel

Nuevo Agent



Fusion Middleware Configuration Wizard - Page 9 of 13

Machines

ORACLE
FUSION MIDDLEWARE

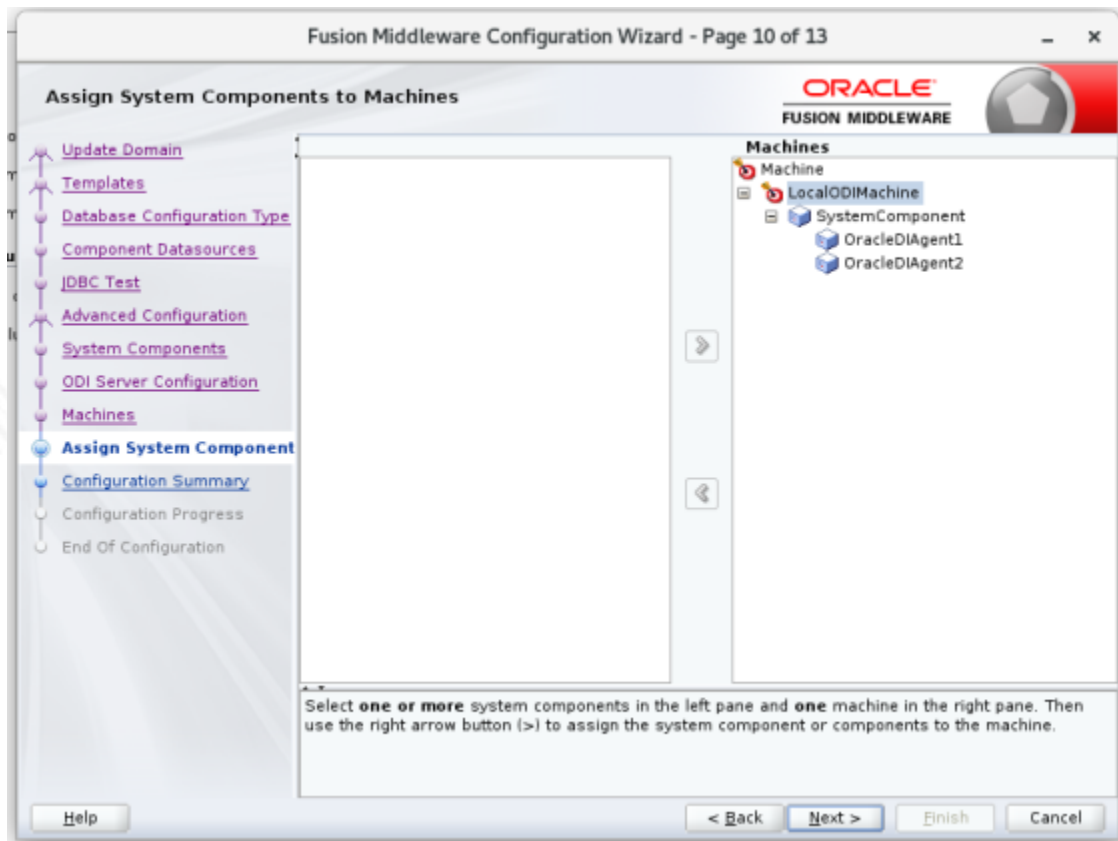
Machine | Unix Machine

+ Add - Delete Disard Changes

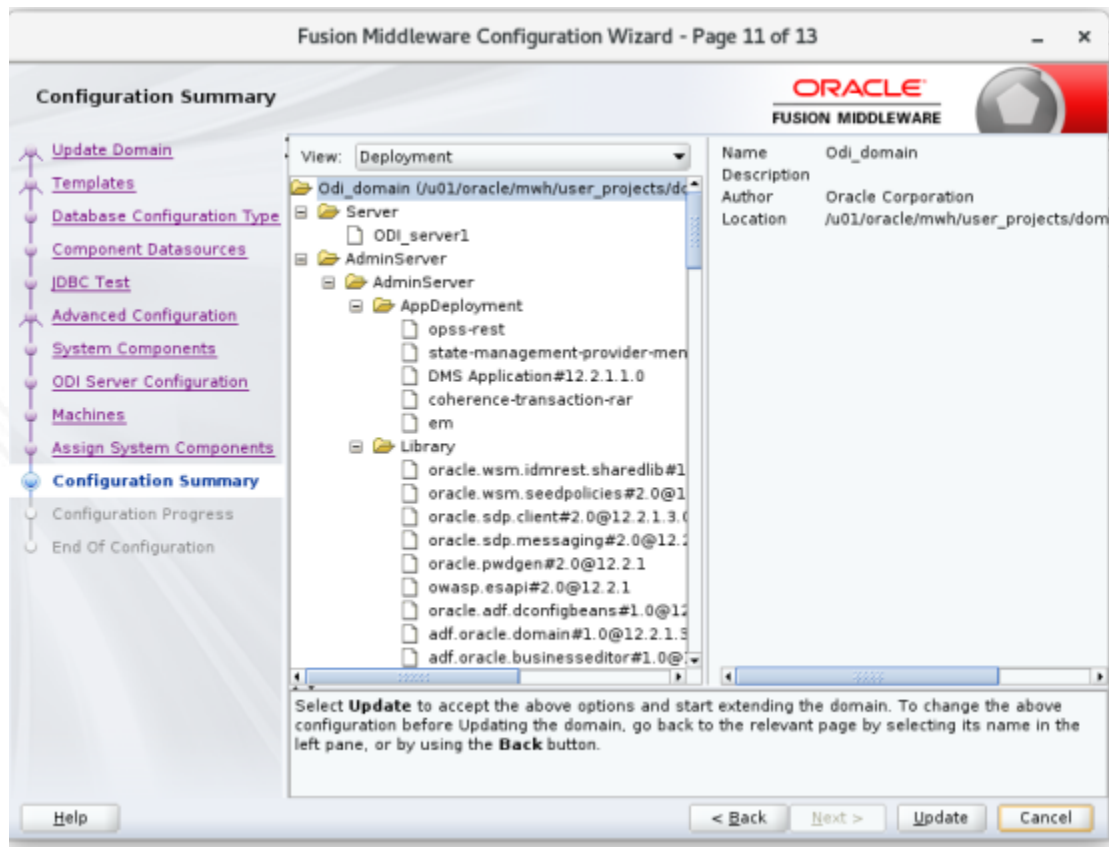
Name	Node Manager Listen Address	Node Manager Listen Port
LocalODIMachine	localhost	5556

Help < Back Next > Finish Cancel

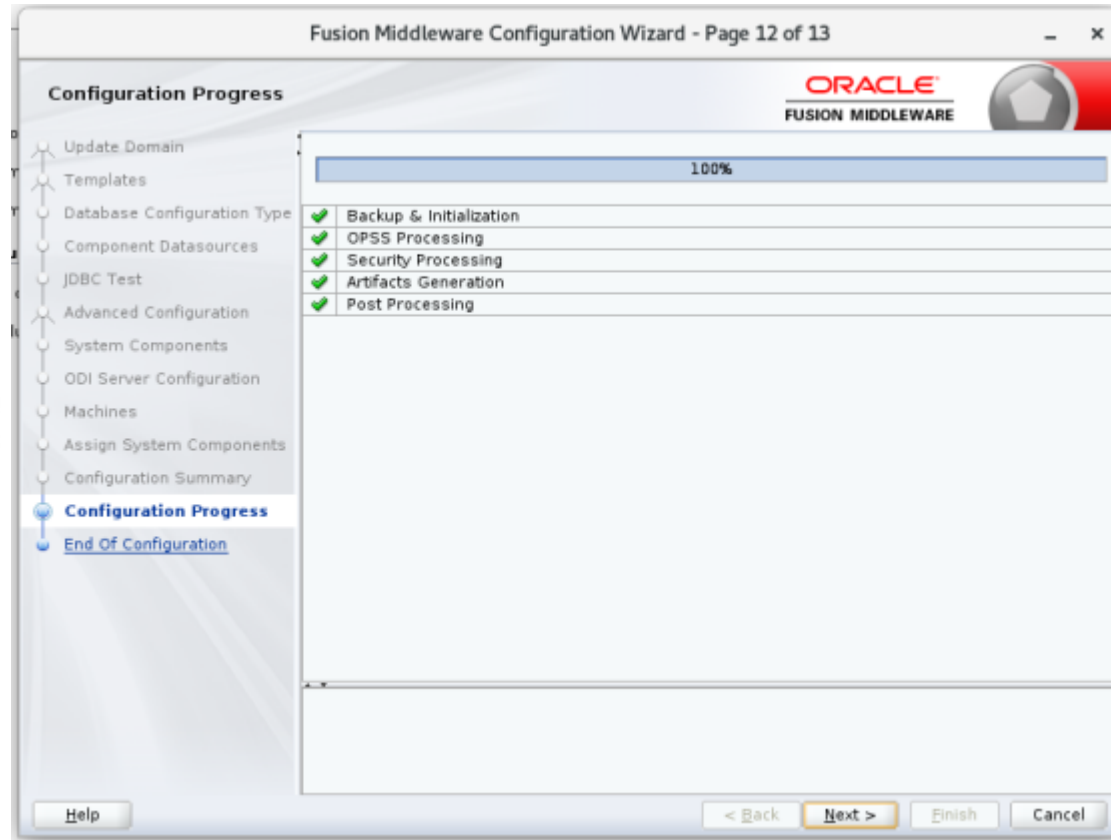
Nuevo Agent



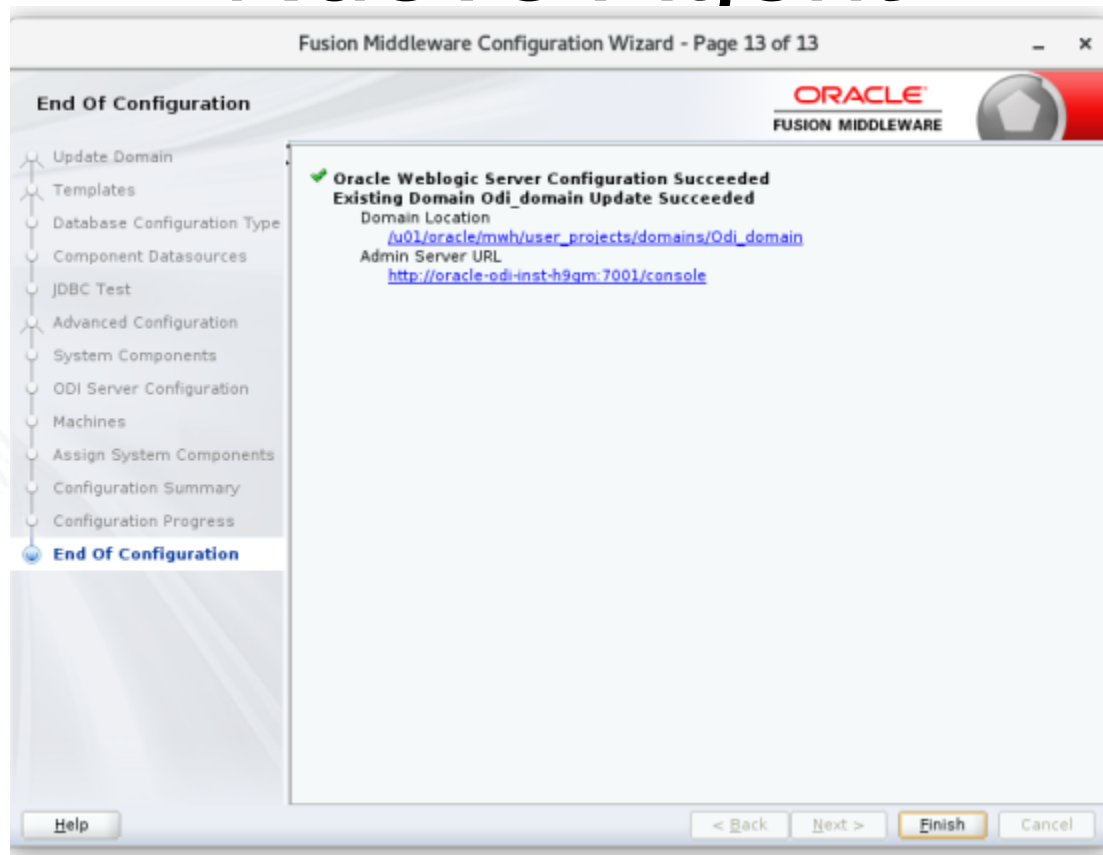
Nuevo Agent



Nuevo Agent



Nuevo Agent



Nuevo Agent



```
2022-08-02 16:51:08.314 NOTIFICATION Ignoring JIT connection to master repository, being SSL enabled DB, and connections are cached
2022-08-02 16:51:08.314 NOTIFICATION Ignoring JIT connection to master repository, being 18c or above driver and connections are cached
2022-08-02 16:51:08.357 WARNING odi.core.security.SecurityManager.loadAuthenticationMode found the authMode:mUsingLDAPAuthentication: false, mUsingIDCSAuthentication:false, indExternalAuth:null.
2022-08-02 16:51:08.834 NOTIFICATION ODI-1111 Agent OracleDIAgent2 started. Agent version: 12.2.1. Port: 20911. JMX Port: 21911.
2022-08-02 16:51:08.835 NOTIFICATION ODI-1136 Starting Schedulers on Agent OracleDIAgent2.
2022-08-02 16:51:09.776 NOTIFICATION ODI-1137 Scheduler started for work repository ODI_WORK on Agent OracleDIAgent2.
```

The screenshot shows the OracleDIAgent2 configuration window. The 'Definition' tab is active, displaying fields for Name (OracleDIAgent2), Host (localhost), Port (20911), Web application context (oraclediagent), Protocol (http), Maximum number of sessions (100), Maximum number of threads (100), and Maximum threads per session (0). The 'Session Blueprint Cache Management' section shows Maximum cache entries (100) and Unused Blueprint Lifetime (Sec) (600). An 'Information' dialog box is overlaid on the configuration, stating 'OracleDIAgent2 Test Successful. Agent Version: 12.2.1' with an 'OK' button.

Definition

Agent

Name: OracleDIAgent2

Host: localhost Port: 20911

Web application context: oraclediagent Protocol: http

Maximum number of sessions: 100

Maximum number of threads: 100

Maximum threads per session: 0

Session Blueprint Cache Management

Maximum cache entries: 100

Unused Blueprint Lifetime (Sec): 600

Information

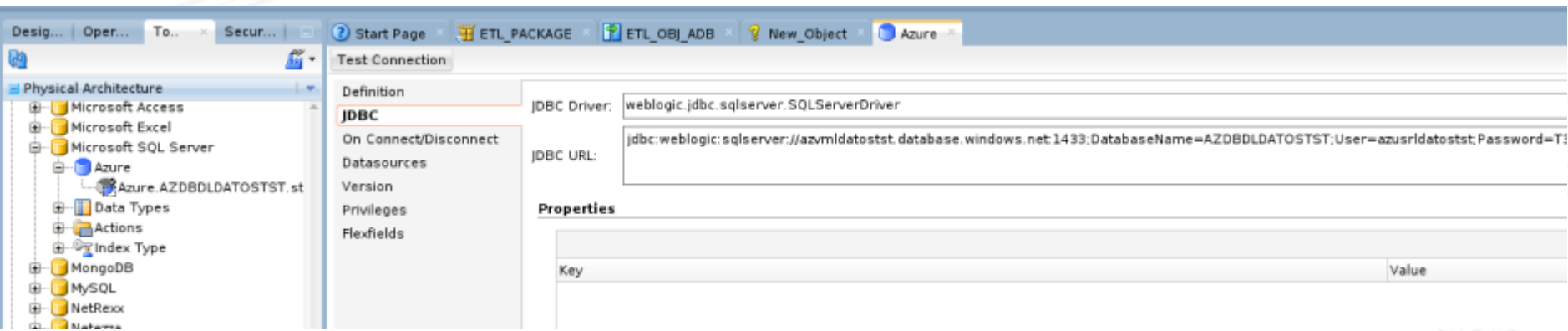
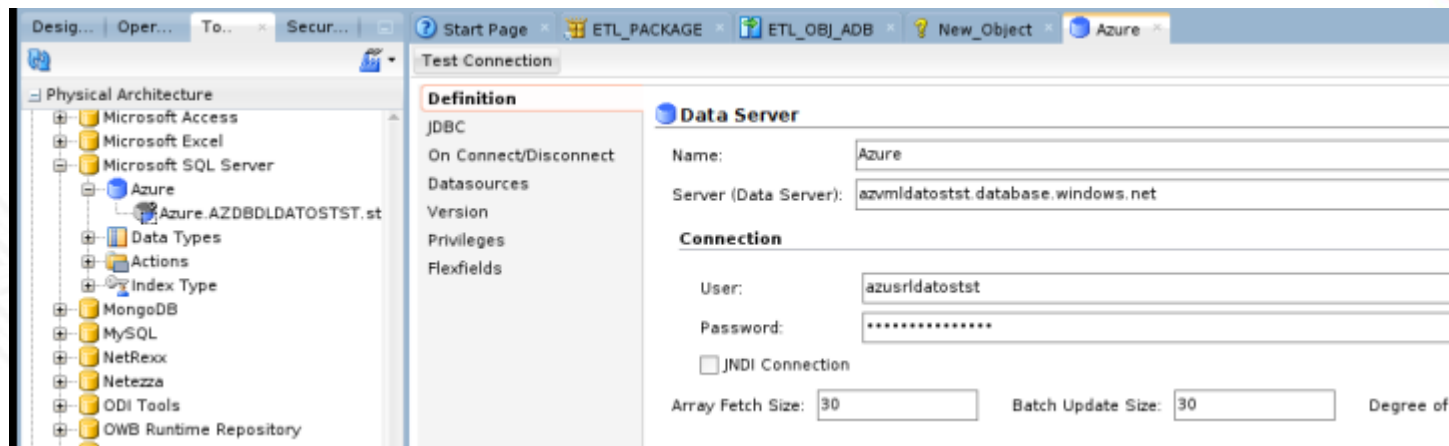
OracleDIAgent2 Test Successful. Agent Version: 12.2.1

OK

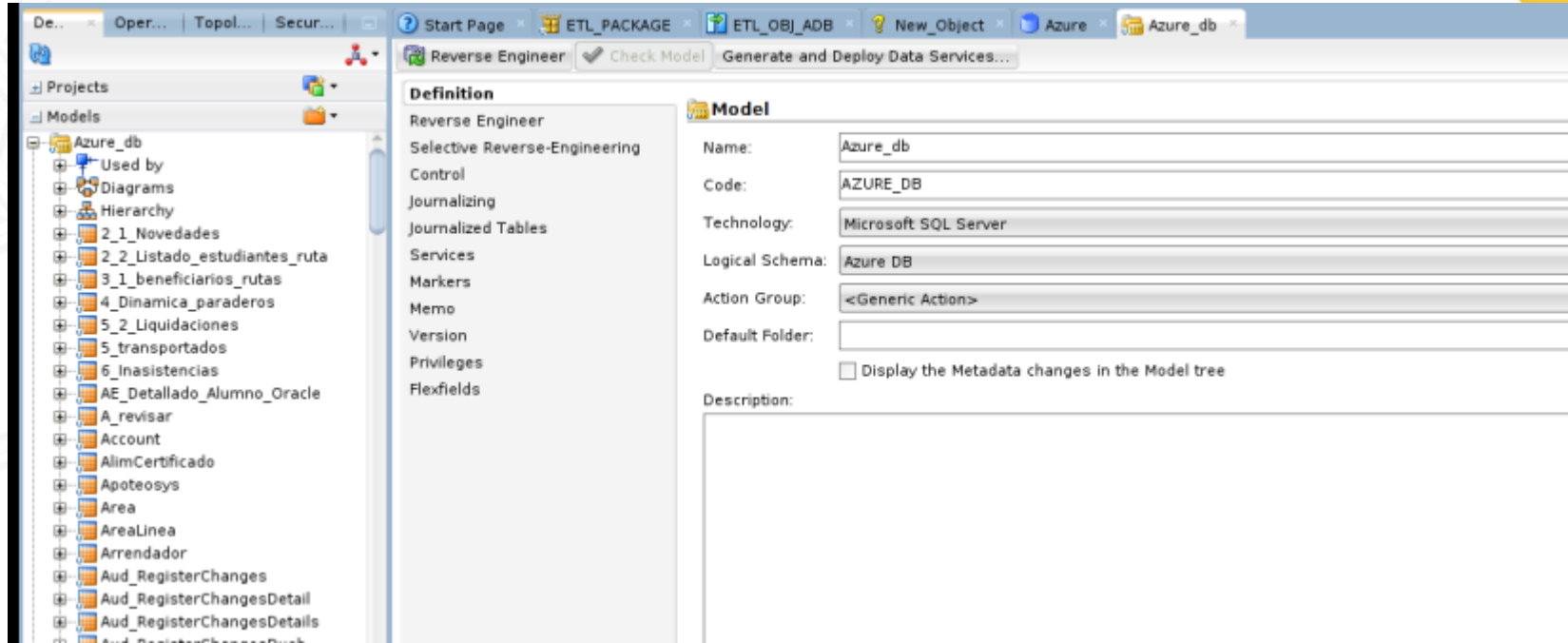


SESIÓN ODI Azure
Octubre de 2022

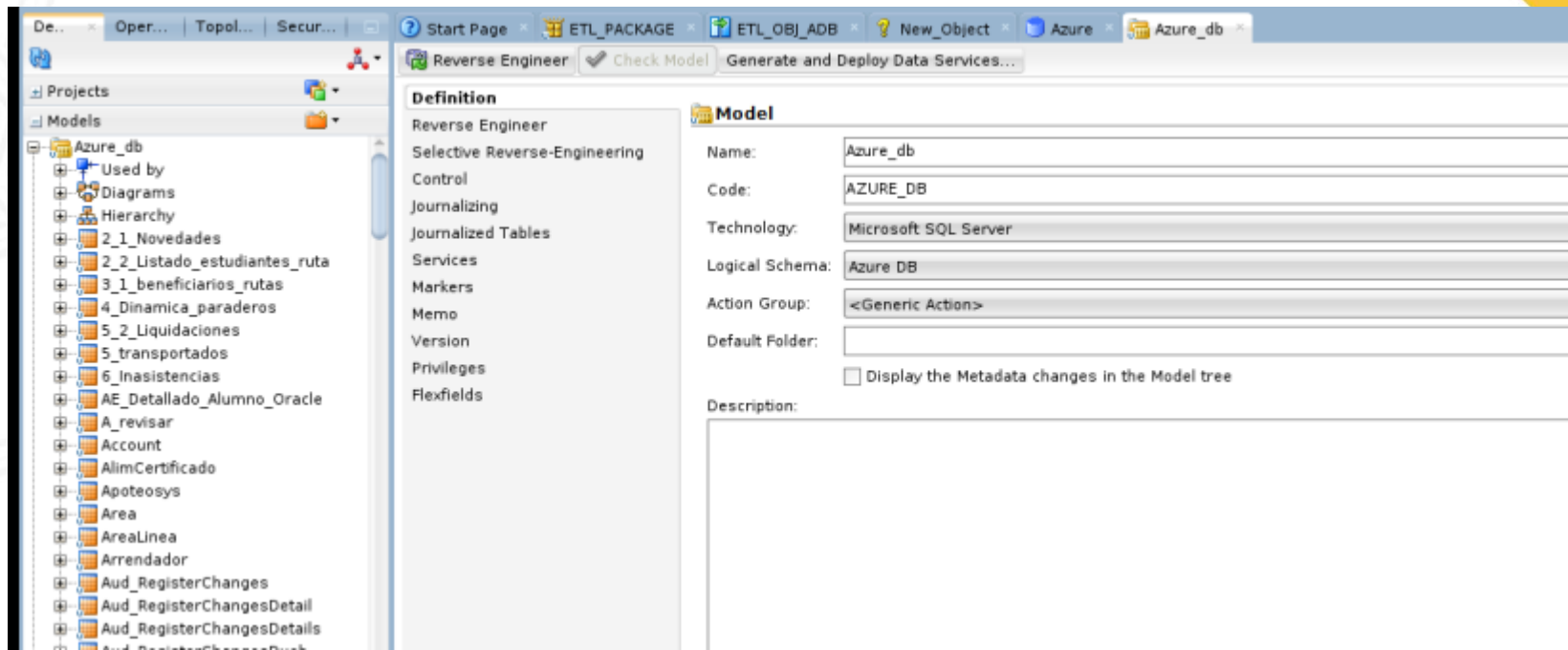
Configuración ODI-Azure DB



Model ODI-Azure DB



Model ODI-Azure DB



Azure as a file system



<https://learn.microsoft.com/en-us/azure/storage/blobs/storage-how-to-mount-container-linux>

Install BlobFuse v1

On an Ubuntu/Debian distribution:

Bash

Copy

```
sudo apt-get install blobfuse
```

On an Enterprise Linux distribution:

Bash

Copy

```
sudo yum install blobfuse
```

On a SUSE distribution:

Bash

Copy

```
sudo zypper install blobfuse
```

Azure as a file system



Archivo fuse_connection.cfg

```
root@oracle-odi-inst-h9gm:/home/opc
accountName stgldatostst
accountKey spmbHWFzkdDx7MT5cqdaMn4iJ9qrv9E+WK7Vhx9oogpJ4lkmsMjVHxp9AW
nTR9WHuE6L9t58+ebocogbh55f3Q==
containerName simat
~
~
~
```

Mount

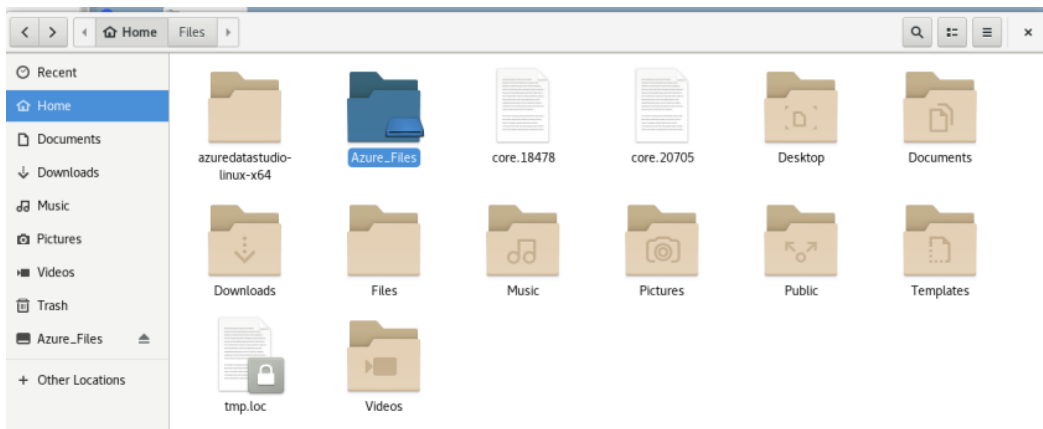
```
[root@oracle-odi-inst-h9gm opc]# vi ${HOME}/.fuse_connection.cfg
[root@oracle-odi-inst-h9gm opc]# blobfuse /home/oracle/Azure_Files --tmp-path=/mnt/resource/blobfusetmp --config-file=${HOME}/.fuse_connection.cfg -o attr_timeout=240 -o entry_timeout=240 -o negative_timeout=120 -o nonempty -o allow_other
```

```
blobfuse /home/oracle/Azure_Files --tmp-path=/mnt/resource/blobfusetmp --config-file=${HOME}/.fuse_connection.cfg -o attr_timeout=240 -o entry_timeout=240 -o negative_timeout=120 -o nonempty -o allow_other
```

Azure as a file system



```
[root@oracle-odi-inst-h9gm opc]# df -k
Filesystem      1K-blocks    Used Available Use% Mounted on
devtmpfs         61512300      0   61512300   0% /dev
tmpfs            61562088      4   61562084   1% /dev/shm
tmpfs            61562088    67156   61494932   1% /run
tmpfs            61562088      0   61562088   0% /sys/fs/cgroup
/dev/sda3        40223552 30967188   9256364   77% /
/dev/sdal        204580      7648   196932     4% /boot/efi
tmpfs           12312420      0   12312420   0% /run/user/0
tmpfs           12312420      0   12312420   0% /run/user/994
tmpfs           12312420      0   12312420   0% /run/user/1000
blobfuse         40223552 30967188   9256364   77% /home/oracle/Azure_Files
[root@oracle-odi-inst-h9gm opc]#
```



Ajuste paquete envió Azure



The screenshot displays the Oracle Data Integrator (ODI) interface. The main workspace shows a workflow diagram with several components: 'New_Object', 'DownloadObject', 'UnZip', 'Command iconv', 'UploadObject', 'Command ln', 'OdiFileCopy txt', 'Mkdir PROC', 'OdiObjectStorage...', 'OdiObjectStorageDelete', 'OdiObjectStorageDownload', and 'OdiObjectStorageUpload'. The 'OdiFileCopy To Azure' component is highlighted with a red box. The Properties panel at the bottom shows the configuration for this component.

Properties

General Command Advanced Memo Version Privileges

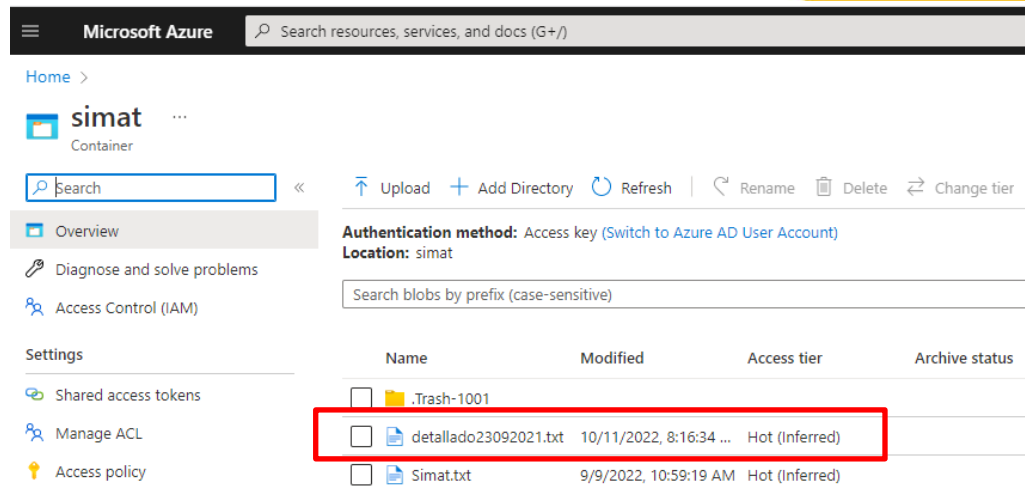
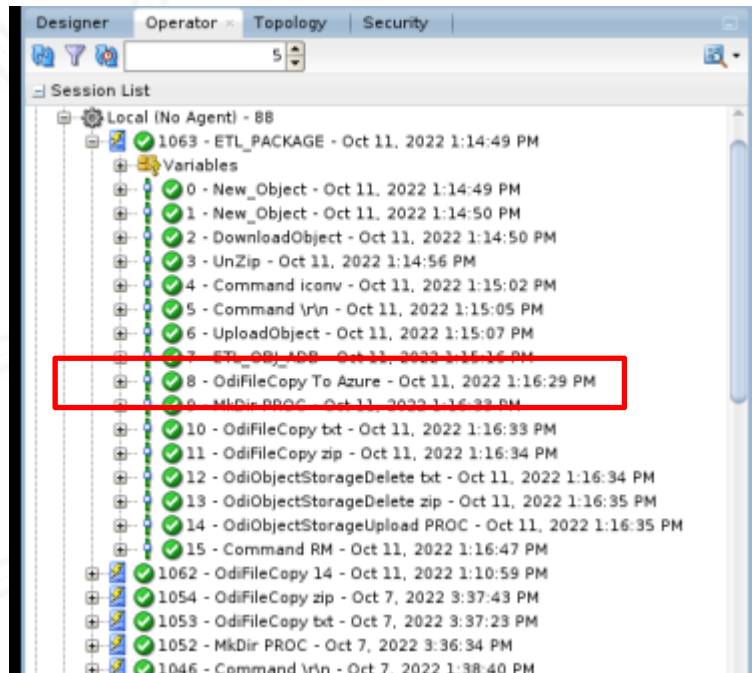
OdiFileCopy
Select a parameter for more information about it.

Step name
OdiFileCopy To Azure

Parameter	Value
Source Directory	
Source File	
Target Directory	/home/oracle/Files/AE_PROCESS/EA_PROC.txt
Target File	/home/oracle/Azure_Files/#SMECE_AE_ALUMNO.New_Object.txt
Copy Sub-directories	Yes
Overwrite Files	No
Case-sensitive	No

Se crea un nuevo componente el cual copia el txt a la carpeta de Azure

Prueba General

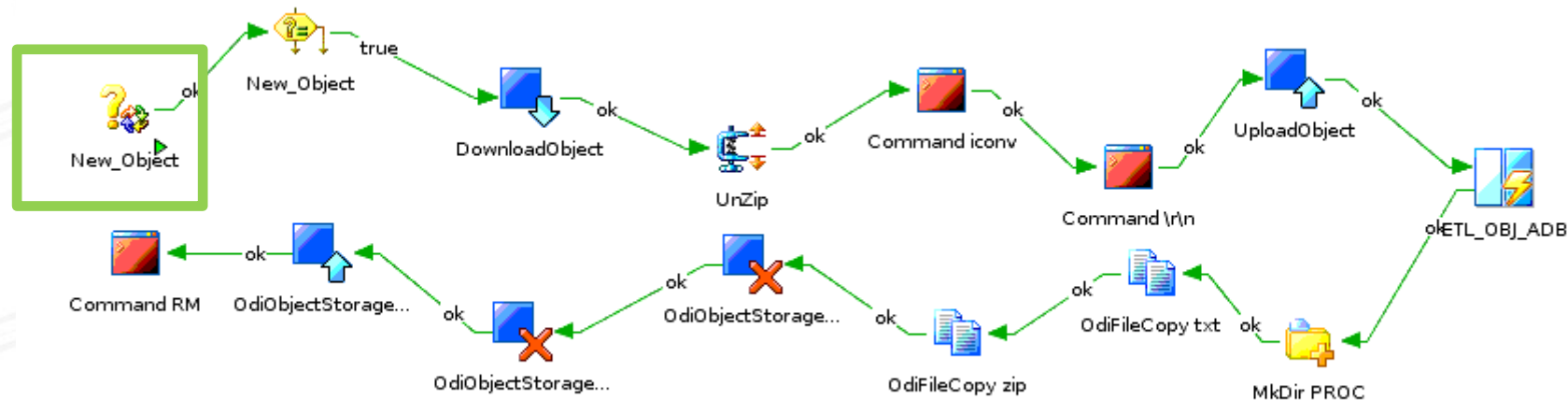




A composite image featuring a person's hands in the foreground, one holding a pen and the other operating a calculator. The background is a dense, high-angle view of a city skyline, with the Petronas Twin Towers prominently visible on the left. The image has a warm, reddish-orange tint and a semi-transparent effect, allowing the city buildings to be seen through the person's hands and the calculator.

SESIÓN ODI
23 de Agosto de 2022

Variables



Variables

The screenshot displays the TAK software interface. The left pane shows a tree view of the project structure under 'SMECE AE ALUMNO'. The 'Variables' folder is selected, showing a sub-item 'New_Object'. The right pane shows the 'Definition' tab for 'New_Object', which is a variable of type 'Alphanumeric' with the 'Latest Value' kept. The 'Definition' tab includes fields for Name, Datatype, Keep History, Secure Value, Default Value, and Description.

Definition

Variable [Project: SMECE AE ALUMNO]

Refreshing	
History	Name: New_Object
Markers	Datatype: Alphanumeric
Memo	
Version	Keep History: Latest Value
Privileges	Secure Value: ☐
	Default Value:
	Description:

Variables



Start Page x ETL_PACKAGE x New_Object

Definition

Refreshing Schema: DB_SMECE

History Select Query:

Markers

Memo

Version

Privileges

```
select replace(object_name,'.zip','') object_name
from dbms_cloud.list_objects(
'ODI', 'https://objectstorage.us-ashburn-1.oraclecloud.com/n/idrakybqkmr9/b/bucket-SMECE/o/AE_PROCESS' )
WHERE lower(object_name) like '%.zip%'
and UPPER(object_name) not like '%PROC%'
```

Start Page x ETL_PACKAGE x New_Object

Definition

Refreshing Context Filter: All

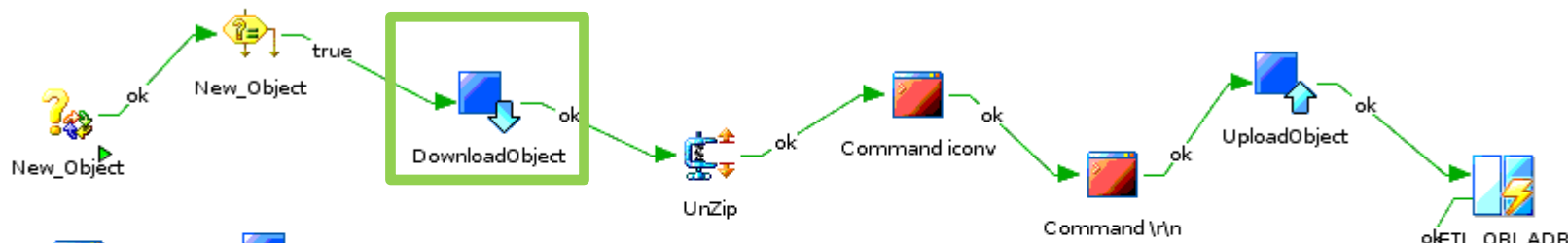
History Values:

Markers	Date	Value	Context
Memo	Aug 23, 2022 12:45:59 AM	detallado22082022	GLOBAL

Version

Privileges

Descarga Archivo



Properties

General Command Advanced Memo Version Privileges

OdiObjectStorageDownload

Select a parameter for more information about it.

Step name

DownloadObject

Parameter

Source Logical Schema

Target Logical Schema

File Names Filter

Overwrite

Retry On Error

Retry Interval Seconds

Value

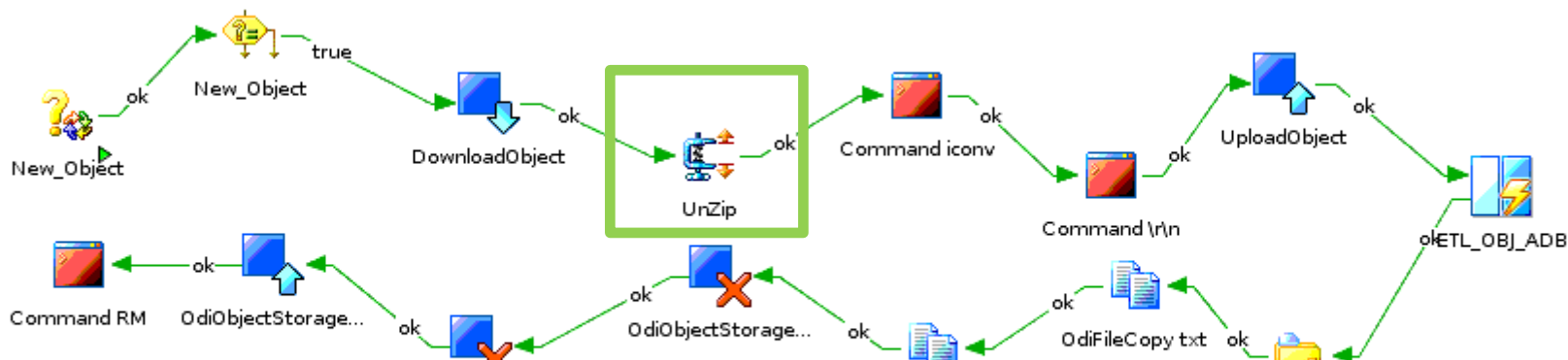
bucket_smece

Archivo local

AE_PROCESS/#SMECE_AE_ALUMNO.New_Object.zip

Yes

Unzip Archivo



Properties

General Command Advanced Memo Version Privileges

OdiUnZip

Select a parameter for more information about it.

Step name

UnZip

Parameter

Zip file

Target Directory

Overwrite Files

Filename encoding

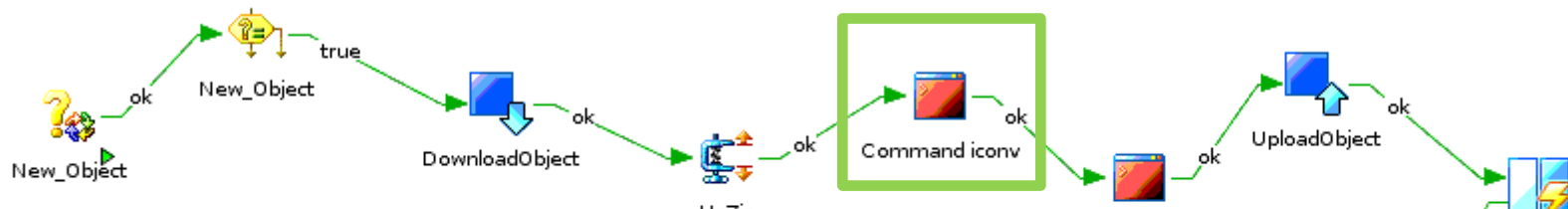
Value

/home/oracle/Files/AE_PROCESS/#SMECE_AE_ALUMNO.New_Object.zip

/home/oracle/Files/AE_PROCESS/

Yes

Codificación Archivo



Properties

General Command Advanced Memo Version Privileges

OdiOSCommand

Select a parameter for more information about it.

Step name

Command iconv

Parameter

Command to execute

Output file

Error file

Append to output file

Working directory

Synchronous

Capture Output Stream

Capture Error Stream

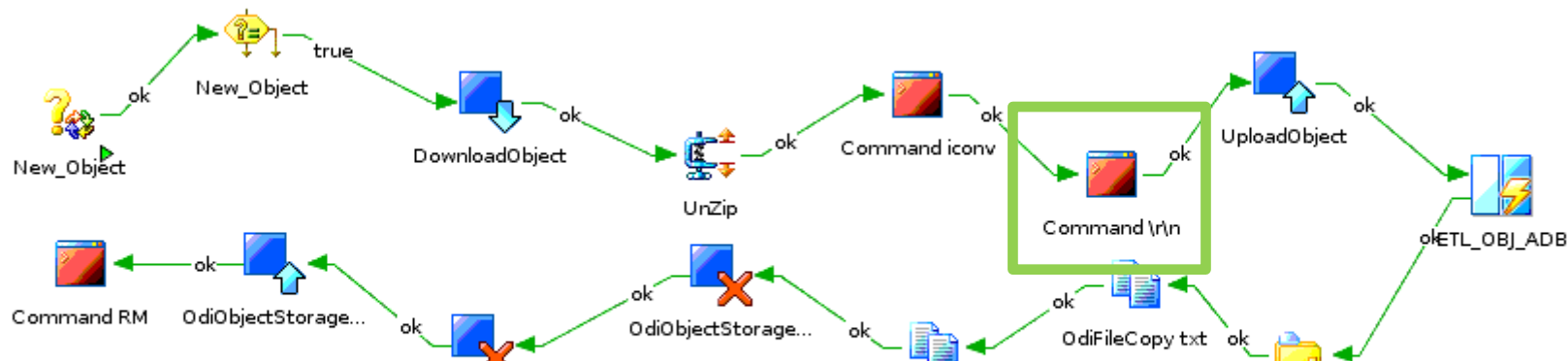
Value

iconv -f iso-8859-1 -t utf-8 /home/oracle/Files/AE_PROCESS/* .txt > /

ON_ERROR,10,50

ON_ERROR,10,50

Saltos de líneas



Properties

General Command Advanced Memo Version Privileges

OdiOSCommand

Select a parameter for more information about it.

Step name

Command \r\n

Parameter

Command to execute

Output file

Error file

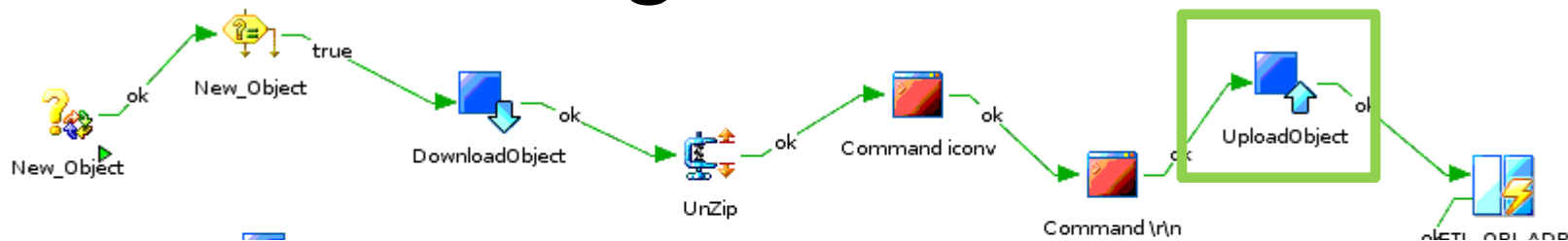
Append to output file

Working directory

Value

sed ':a;N;\$!ba;s/\r\n//g' /home/oracle/Files/AE_PROCESS/EA_PROC_COD.txt >> /home/oracle/Files/AE_PROCES

Cargue Archivo



Properties

General Command Advanced Memo Version Privileges

OdiObjectStorageUpload

Select a parameter for more information about it.

Step name

UploadObject

Parameter

Target Logical Schema

Source Logical Schema

File Names Filter

Overwrite

Retry On Error

Retry Interval Seconds

Value

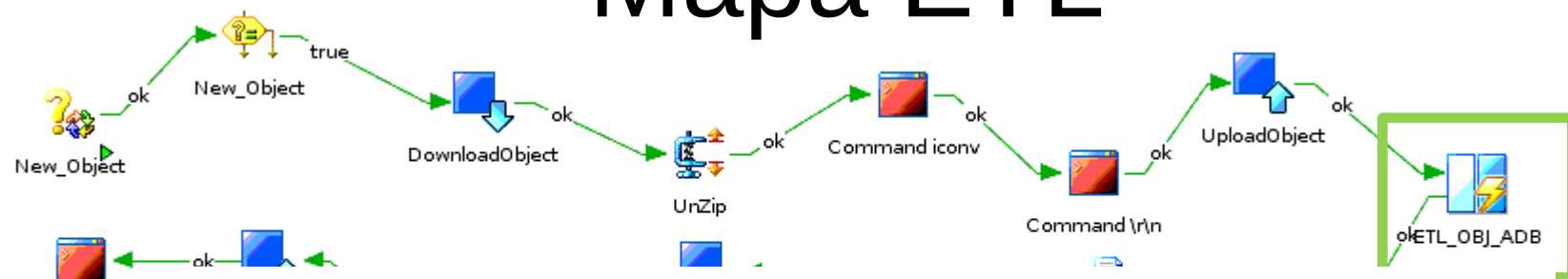
bucket_smece

Archivo local

AE_PROCESS/EA_PROC.txt

Yes

Mapa ETL

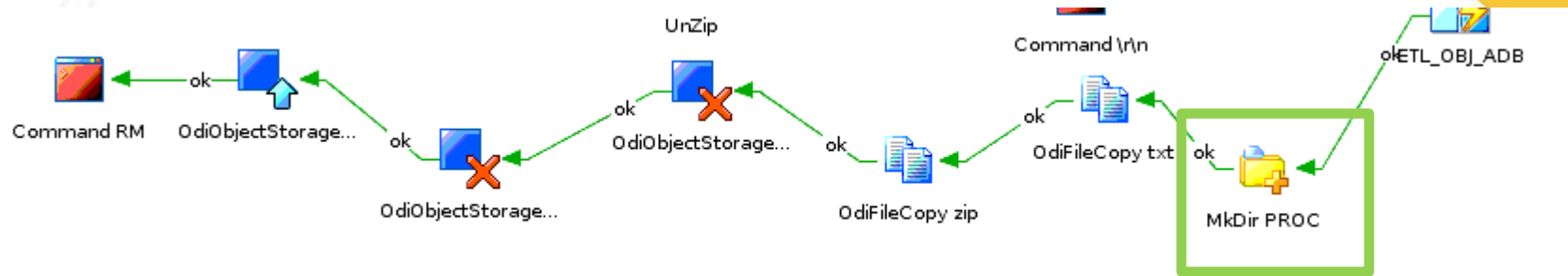


Command RM

	PR
S ANO	➡
S ETC	➡
S ESTADO	➡
S JERARQUIA	➡
S INSTITUCION	➡
S DANE	➡
S CALENDARIO	➡
S SECTOR	➡
S SEDE	➡
S CODIGO_DANE_SEDE	➡
S CONSECUTIVO	➡
S ZONA_SEDE	➡
S JORNADA	➡
S GRADO_COD	➡
S GRUPO	➡

	AE
V ID_ROWNUM	➡
V ANO	➡
V ETC	➡
V ESTADO	➡
V JERARQUIA	➡
V INSTITUCION	➡
V DANE	➡
V CALENDARIO	➡
V SECTOR	➡
V SEDE	➡
V CODIGO_DANE_SEDE	➡
V CONSECUTIVO	➡
V ZONA_SEDE	➡
V JORNADA	➡
V GRADO_COD	➡

Crear Carpeta Proc



General Command Advanced Memo Version Privileges

OdiMkdir

Select a parameter for more information about it.

Step name

Mkdir PROC

Parameter

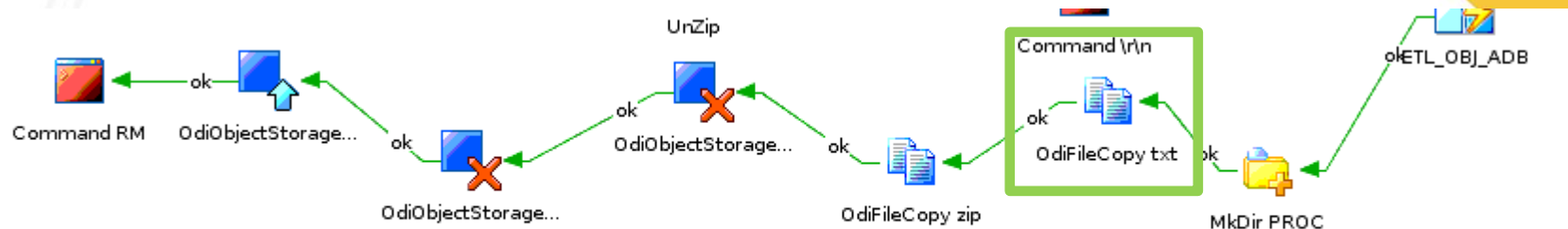
Directory

Target Logical Hadoop Schema

Value

/home/oracle/Files/AE_PROCESS/PROC

Mover Archivo txt



Properties

General Command Advanced Memo Version Privileges

OdiFileCopy

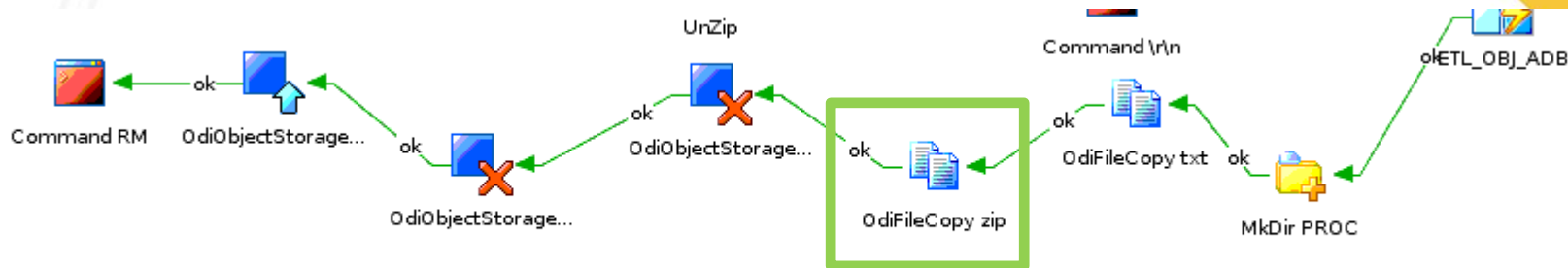
Select a parameter for more information about it.

Step name

OdiFileCopy txt

Parameter	Value
Source Directory	
Source File	/home/oracle/Files/AE_PROCESS/EA_PROC.txt
Target Directory	
Target File	/home/oracle/Files/AE_PROCESS/PROC/#SMECE_AE_ALUMNO.New_Object.txt
Copy Sub-directories	Yes

Mover Archivo zip



Properties

General Command Advanced Memo Version Privileges

OdiFileCopy

Select a parameter for more information about it.

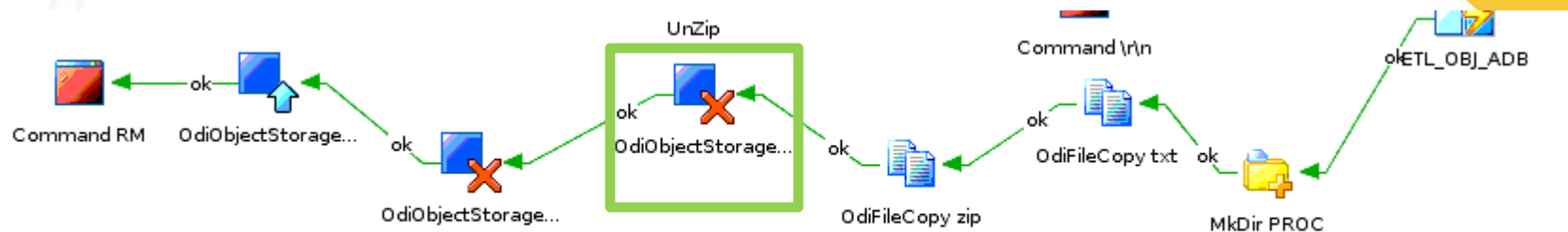
Step name

OdiFileCopy zip

Parameter

Parameter	Value
Source Directory	
Source File	/home/oracle/Files/AE_PROCESS/#SMECE_AE_ALUMNO.New_Object.zip
Target Directory	
Target File	/home/oracle/Files/AE_PROCESS/PROC/#SMECE_AE_ALUMNO.New_Object.zip
Copy Sub-directories	Yes

Cambia de ruta Archivo txt



Properties

General Command Advanced Memo Version Privileges

OdiObjectStorageDelete

Select a parameter for more information about it.

Step name

OdiObjectStorageDelete txt

Parameter

Target Logical Schema

File Names Filter

Retry On Error

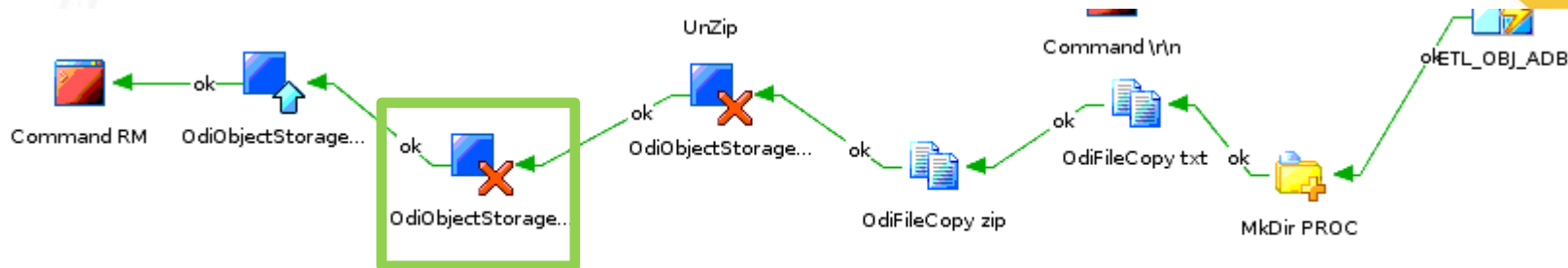
Retry Interval Seconds

Value

bucket_smece

AE_PROCESS/EA_PROC.txt

Cambia de ruta Archivo zip



Properties

General Command Advanced Memo Version Privileges

OdiObjectStorageDelete

Select a parameter for more information about it.

Step name

OdiObjectStorageDelete zip

Parameter

Target Logical Schema

File Names Filter

Retry On Error

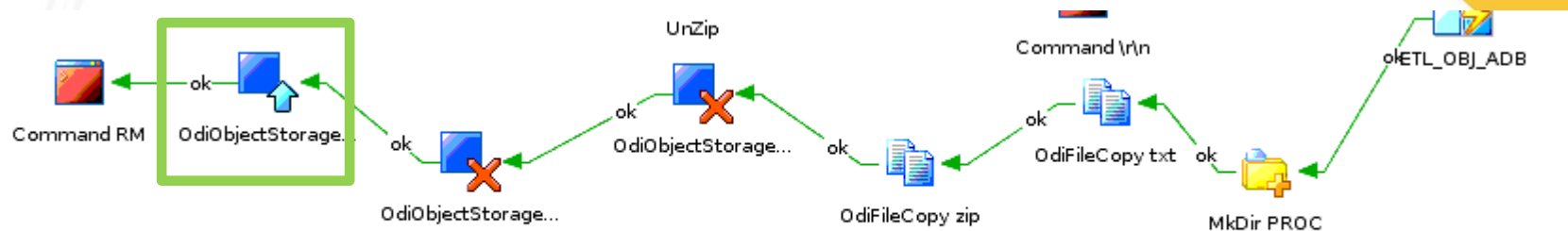
Retry Interval Seconds

Value

bucket smece

AE_PROCESS/#SMECE_AE_ALUMNO.New_Object.zip

Actualizar Archivo Proc



Properties

General Command Advanced Memo Version Privileges

OdiObjectStorageUpload

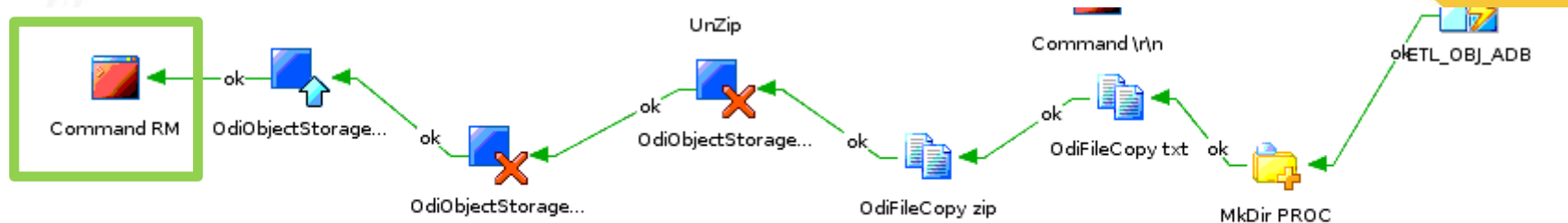
Select a parameter for more information about it.

Step name

OdiObjectStorageUpload PROC

Parameter	Value
Target Logical Schema	bucket_smece
Source Logical Schema	Archivo local
File Names Filter	AE_PROCESS/PROC/*.*
Overwrite	Yes
Retry On Error	

Eliminar Archivo Proc Local



Properties

General Command Advanced Memo Version Privileges

OdiOSCommand

Select a parameter for more information about it.

Step name

Command RM

Parameter

Command to execute

Output file

Error file

Append to output file

Working directory

Value

rm -r /home/oracle/Files/AE_PROCESS

Object Storage as File System



```
-rw-r--r--. 1 root root 276 Feb 16 2021 oracle-softwarecollection-ol7.repo
-rw-r--r--. 1 root root 252 Feb 16 2021 oci-included-ol7.repo
-rw-r--r--. 1 root root 226 Jun 9 2021 virt-ol7.repo
-rw-r--r--. 1 root root 2587 Jun 9 2021 uek-ol7.repo
-rw-r--r--. 1 root root 4836 Feb 22 19:14 oracle-linux-ol7.repo
-rw-r--r--. 1 root root 1041 Feb 22 19:21 oraclelinux-developer-ol7.repo
-rw-r--r--. 1 root root 488 Feb 22 19:21 ksplice-ol7.repo
-rw-r--r--. 1 root root 252 Aug 23 02:09 oracle-epel-ol7.repo
[opc@oracle-odi-inst-h9gm yum.repos.d]$ pwd
/etc/yum.repos.d
```

```
[ol7_developer_EPEL]
name=Oracle Linux $releasever EPEL Packages for Development ($basearch)
baseurl=https://yum$ociregion.$ocidomain/repo/OracleLinux/OL7/developer_EPEL/$basearch/
gpgkey=file:///etc/pki/rpm-gpg/RPM-GPG-KEY-oracle
gpgcheck=1
enabled=1
```

Object Storage as File System



```
[root@oracle-odi-inst-h9gm yum.repos.d]# sudo yum install s3fs-fuse
Loaded plugins: langpacks, ulninfo
Resolving Dependencies
--> Running transaction check
--> Package s3fs-fuse.x86_64 0:1.91-1.el7 will be installed
--> Processing Dependency: mailcap for package: s3fs-fuse-1.91-1.el7.x86_64
--> Running transaction check
--> Package mailcap.noarch 0:2.1.41-2.el7 will be installed
--> Finished Dependency Resolution

Dependencies Resolved

=====
Package           Arch           Version           Repository        Size
=====
Installing:
s3fs-fuse         x86_64         1.91-1.el7        ol7_developer_EPEL 257 k
Installing for dependencies:
mailcap           noarch         2.1.41-2.el7      ol7_latest        30 k
=====

Transaction Summary
=====
Install 1 Package (+1 Dependent package)

Total download size: 287 k
Installed size: 698 k
Is this ok [y/d/N]: y
Downloading packages:
(1/2): mailcap-2.1.41-2.el7.noarch.rpm | 30 kB 00:00
(2/2): s3fs-fuse-1.91-1.el7.x86_64.rpm | 257 kB 00:00
-----
Total                               778 kB/s | 287 kB 00:00
Running transaction check
```

Object Storage as File System



Resources

[Groups](#)[API Keys](#)[Auth Tokens](#)[Customer Secret Keys](#)[Database Passwords](#)[OAuth 2.0 Client Credentials](#)[SMTP Credentials](#)

Customer Secret Keys

[Generate Secret Key](#)

Name	Access Key	Created	
FILE_SYSTEM	...d26593	Tue, Aug 23, 2022, 01:50:59 UTC	⋮
Displaying 1 Secret Key			



Object Storage as File System

```
[root@oracle-odi-inst-h9gm ~]# echo 74f643cddaca4f28f6c62c4d84e6412a05d26593:M91
yoZpgkP3Fxbhj5sabh6eOfxmv/JopYAGlmrQoPJVO= > ${HOME}/.passwd-s3fs
[root@oracle-odi-inst-h9gm ~]# chmod 600 .passwd-s3fs
```

```
[root@oracle-odi-inst-h9gm /]# s3fs bucket-SMECE /mnt -o passwd_file=${HOME}/.passwd-s3fs -o url=https://idrakybqkmr9
-o nomultipart -o use_path_request_style -o endpoint=us-ashburn-1
[root@oracle-odi-inst-h9gm /]# ls -ltr
total 41
```

```
[root@oracle-odi-inst-h9gm yum.repos.d]# cd /mnt/
[root@oracle-odi-inst-h9gm mnt]# ls -ltr
total 1208604
-rw-r-----. 1 root root 101804352 Jul 25 20:43 proc7028129AnonAnsi.zip
-rw-r-----. 1 root root 566728469 Aug 14 14:11 proc7028129AnonAnsi.txt
drwxr-x---. 1 root root 0 Aug 20 00:33 AE_PROCESS
-rw-r-----. 1 root root 569076044 Aug 20 01:55 proc7028129AnonAnsi_1.txt
[root@oracle-odi-inst-h9gm mnt]#
```


Bogotá D.C., 10 de octubre de 2022

**CERTIFICACIÓN DE CUMPLIMIENTO DEL PAGO DE APORTES AL SISTEMA DE SEGURIDAD SOCIAL INTEGRAL Y PARAFISCALES Y DE CUMPLIMIENTO DEL SISTEMA DE GESTIÓN DE SEGURIDAD Y SALUD EN EL TRABAJO - SG SST
(Ley 789 de 2002 y Decreto 052 de 2017)**

Yo Rosa Yaneth Borda Romero, identificada con cedula de ciudadanía No. 52.433.000, en mi calidad de REVISORA FISCAL de la empresa TECH AND KOWLEDGE SAS con NIT: 900.529.191-5 (en adelante "la empresa") manifiesto bajo la gravedad del juramento que la empresa ha cumplido durante los seis (6) meses anteriores a la fecha de entrega de la presente certificación, con los pagos al sistema de seguridad social en salud, pensiones y riesgos profesionales y con los aportes parafiscales correspondientes a todos sus empleados vinculados por contrato de trabajo, por lo que declaro que se encuentra a PAZ Y SALVO con las Empresas Promotoras de Salud -EPS-, Fondos de Pensiones, Administradoras de Riesgos Profesionales - ARP-, Caja de Compensación Familiar, Instituto Colombiano de Bienestar Familiar -ICBF- y Servicio Nacional de Aprendizaje -SENA-.

A handwritten signature in black ink, appearing to read 'Rosa Yaneth Borda Romero', with a horizontal line underneath.

Rosa Yaneth Borda Romero
CC. 52.433.000
Revisora Fiscal.

**EL SUSCRITO REVISOR FISCAL DE
COMWARE S.A
NIT: 860.045.379-1**

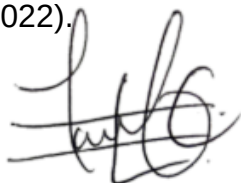
CERTIFICA:

Que la sociedad **COMWARE S.A.**, da estricto cumplimiento con el pago de salarios, prestaciones sociales y las obligaciones con los sistemas de salud, riesgos laborales, pensiones y aportes a las Cajas de Compensación Familiar, Instituto Colombiano de Bienestar Familiar y Servicio Nacional de aprendizaje-Sena, dando cumplimiento con la Ley 1607 de Diciembre 26 de 2012, y Decreto 0862 de Julio 26 de 2013, y en la fecha se encuentra a paz y salvo por dichos conceptos, durante la vigencia de la sociedad, incluyendo los últimos seis (6) meses, teniendo en cuenta los plazos establecidos en el Decreto 1670 de 2007.

De igual manera certifico que a partir del 1ro de septiembre de 2013, la compañía realiza la autorretención del impuesto sobre la renta para la equidad-CREE presentada en los plazos establecidos, lo anterior fue modificado y reemplazado por la autorretención especial de Renta en la Ley 1819 de diciembre de 2016.

Esta certificación se expide para dar cumplimiento con lo ordenado en el Artículo 50 de la Ley 789 de Diciembre 27 de 2.002, y Art. 1º de la Ley 828 de 2003.

Dada en Bogotá, D.C., a los (04) cuatro días del mes de octubre de dos mil veintidós (2022).



FABIAN BEDOYA SILVA

Revisor Fiscal

TP. 232226-T

Rubio Samacá Asociados S.A.S.

RV: [SED] - Informe Septiembre OK**RODRIGO BERNAL ABRIL** <rbernala1@educacionbogota.gov.co>

Mié 12/10/2022 3:04 PM

Para: Alexandra Gómez <alexandra.gomez@takcolombia.com>

CC: JOHANNA CAMILA SANABRIA OJEDA <jsanabriao@educacionbogota.gov.co>; JAIR SIERRA MERCHAN <jsierra@educacionbogota.gov.co>; JHONN EDWIN ORTIZ VARGAS <jeortizv@educacionbogota.gov.co>

 9 archivos adjuntos (9 MB)

Informe de Actividades Septiembre SED.pdf; DocumentoArquitectura-Instalacion-ODI-SED_ Septiembre.pdf; ODI_sesion_PKG_MAPAS.pdf; ODI_Azure.pdf; ODI_Perfil.pdf; ODI_Agent.pdf; ODI_sesion_1.pdf; Pass.xlsx; ODI_KEYS.zip;

Buenas tardes Alexandra, se procede a revisar documentación sin novedad, por favor seguir con la facturación con los soportes correspondientes. Quedo atento a cualquier inquietud.

Cordialmente,

RODRIGO BERNAL ABRILOficina de Tecnologías de la Información
y las Comunicaciones -OTIC

Carrera 28 A No. 62 - 46

Código postal: 111311

PBX: (601) 343 6870www.educacionbogota.edu.co**Información:** Línea 195

De: Alexandra Gómez <alexandra.gomez@takcolombia.com>**Enviado el:** martes, 11 de octubre de 2022 11:39 a. m.**Para:** RODRIGO BERNAL ABRIL <rbernala1@educacionbogota.gov.co>**Asunto:** [SED] - Informe Septiembre

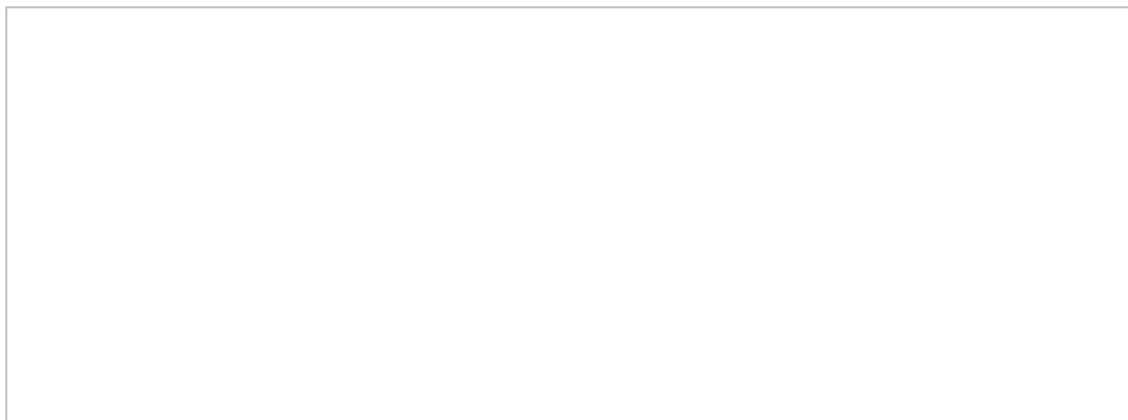
Buen día Rodrigo,
Espero te encuentres muy bien

Adjunto envío el informe de las horas ejecutadas en el mes de Septiembre, adicional adjunto la siguiente documentación para ODI:

1. Documento de arquitectura.
2. Presentación de las sesiones ODI (Los últimos ajustes solicitados se documentaron en el documento ODI_Azure)
3. La carpeta ODI_Keys con todas las llaves de acceso.
4. Archivo Pass con todas las contraseñas utilizadas.

Tu colaboración con la revisión y aprobación de las horas ejecutadas para poder proceder con la facturación.

Quedamos muy atentos a cualquier duda o comentario,
Saludos



Por favor evita imprimir, a menos que sea estrictamente necesario, al preferir el uso de documentos digitales se ahorra agua, energía y recursos forestales.

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UNION TEMPORAL TAKCW

NIT 901327023-2
Régimen Responsable del impuesto sobre las ventas –IVA
Resolución DIAN N° 18764035961266
Fecha 12/09/2022 - 12/09/2023
Autorización de Facturación Electrónica del FEV1 al
FEV50

Departamento	Fecha		
Bogotá	13	10	2022

FACTURA ELECTRÓNICA
DE VENTA

N° FEV3

Cliente: SECRETARIA DE EDUCACION DEL DISTRITO CAPITAL
Dirección: El Dorado 66 63
Email: bibiana.ferrucho@comware.com.co
Vencimiento: Noviembre 11 del 2022
Fecha de pago: 11/11/2022
Total de Lineas: 2

NIT: 899999961
Departamento: Bogotá
Tipo negociación: Crédito
Hora emisión: 11:14:30

Fecha de firmado: 13/10/2022 11:14:32
Teléfono: 3105667187
Medio de pago: Transferencia Crédito
Moneda: COP Colombia, Pesos

#	CÓDIGO	CANT	DESCRIPCIÓN	UNIDAD MEDIDA	VR UNIT.	TOTAL
1	1	33,00	Experto Senior	94	\$104.335,50	\$3.443.071,50
2	1	9,00	Experto Junior	94	\$100.824,28	\$907.418,52

SON: (CINCO MILLONES CIENTO SETENTA Y SIETE MIL OCHENTA Y TRES PESOS DOCE CENTAVOS)
CUFE: a5ecf1354f145ea2f39e2d0442aa4245df658d83fabf4f1163028a2c4e6c1e1803ad675582ad33a0343e270b3643cd32

NOTAS:
Miembros integrantes de la Unión Temporal: COMWARESA, NIT860.045.379-1 // 80% Gran Contribuyente y Autoretenedor (Resols. # 0223 de fecha 30 Noviembre 1994)-Favor no practicarle retefuente ni reteiva Tech And Knowledge S.A.S Nit 900.529.191-5 9 // 20% Responsable impto. a las ventas

SUBTOTAL:	\$4.350.490,02
IVA	\$826.593,10
TOTAL:	\$5.177.083,12

IMPUESTO	BASE	TARIFA	IMPORTE
IMPUESTOS			
01 IVA	\$4.350.490,02	19,00%	\$826.593,10

Firma Digital: hsbpH2gVr3eR9wr6ztYUYO2ACKfgkUabbSk0EbF1WOwzxhWnaeQZx/8NypsbBbpK X9Hv2RnaBNm8LHT9jmF1B16iAZRALDvmf09fZE5liZyV3vIL
0z6iz8kDO7T23M UDnhUwdmuAYYebXlbuPipJONHey6RguvtWBSAbuZAIsgXnpRxxYjY6kXANgssUjX 6QqGL4PJXQoR7BD8qN3KlhpQEzo6fkxvAP
19636/EP65Fkulz0BjxcumSTTGU AVEDLX4K2tsGG+Ho4E5YVBoIM5mYwYcCilBRsK77CmMfRCm7JwHKsqlyUoDV3Os+ RuOdPcx66NK9PPKUM/S
mA==

Esta factura es un título valor de acuerdo al art. 774 del C.C. y una vez aceptada declara haber recibido los bienes y servicios a satisfacción.

Representación Gráfica de la Factura de Venta Electrónica.

