#### Мастер-класс по Установке 3DEXPERIENCE 2020x

версия v1 / 11.11.2019

#### **Oracle 12c**

SAULT | The **3DEXPERIENCE**" Company



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#### **3DEXPERIENCE**<sup>®</sup>

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**3D** 

#### Общие положения

#### Допущения и ограничения

- Данный материал представляет собой описание процесса установки 3DEXPERIENCE Platform 2020х\*
- Данный материал был подготовлен на основе следующих источников:
  - User Assistance официальной документации по продуктам Dassault Systémes (см. раздел Installation and Setup | Install | 3DEXPERIENCE Platform и др.) https://www.3ds.com/support/documentation/users-guides/
  - Program Directory содержит описание требований к Аппаратной и Программной части инфраструктуры
     3DEXPERIENCE Platform, список закрыты и закрытых исправлений, обзор новых функций продуктов и т.д. https://www.3ds.com/support/documentation/program-directories/
  - Best Practices официальные лучше практики по установке и апгрейду 3DEXPERIENCE Platform <u>https://www.3ds.com/support/documentation/best-practices/</u>
- Данный материал является справочным, может содержать ошибки и не является прямой инструкцией по применению при апгрейде **3D**EXPERIENCE Platform, развернутой у заказчика





Можеронскандаранализация изучением официальных источников информацию (Друменленле, Курды аратсаля аотсработкандараторов D6 White Papers/Best Practices) подходов к обновлению Платформы на тестовой среде



#### Общие положения

#### Допущения и ограничения

- Апгрейд и установка компонентов **3D**EXPERIENCE Platform в соответствии с данным материалом подходит как для Физических Машин, так и для Виртуальных: протестировано для VMWare ESXi (6.0.2, 6.5.0, 6.7.0)
- Для простоты выполнения процедуры апгрейда и последующего администрирования серверной инфраструктуры 3DEXPERIENCE Platform, рекомендуется выполнять все действия на виртуальной машине в среде гипервизора VMWare ESXi или Microsoft Hyper-V
- Апгрейд и установка всех компонентов **3D**EXPERIENCE Platform и любого другого ПО производится из под встроенного аккаунта Administrator (имя пользователя должно быть на латинице)
- Запуск любых установщиков, ярлыков, командной строки CMD осуществляется с помощью "Run as Administrator" через контекстное меню
- Пакетные \*.bat файлы рекомендуется запускать из командной строки СМD







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Help



 Выбираем установку Enterprise Edition

🙆 Oracle Database 12c Release 2 In	nstaller - Step 3 of 10	– 🗆 X	📓 Oracle Database 12c Release 2 I	nstaller - Step 4 of 10 — 🗆 🗙
Select Database Installation	n Option		Select Database Edition	
Configure Security Updates Installation Option Database Installation Options Database Edition Oracle Home User Installation Location Prerequilite Checks Summary Install Product Finish	Select the type of database installation you want to perform.          Single instance database installation         Oracle Real Application Clusters database installation         Oracle RAC Ong Node database installation		Configure Security Updates Installation Ontion Database Installation Options Database Edition Oracle Home User Installation Location Prerequisite Checks Summary Install Product Finish	Which database edition do you want to install? <ul> <li>Enterprise Edition (6.0GB)</li> <li>Oracic Database 122 Enterprise Edition is a self-managing database that has the scalability, performance, high availability, and security features required to run the most demanding, mission-critical applications.</li> <li>Standard Edition 2 (5.5GB)</li> <li>Oracic Database 122 Standard Edition 2 is a full-featured data management solution ideally suited to the needs of medium-sized businesses. It includes Oracle Real Application Clusters for enterprise-class availability and comes complete with its own Oracle Clusterware and storage management capabilities.</li> </ul>
	< <u>Back</u>	Next > Install Cancel	Help	<back next=""> Install Cancel</back>





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Пользоват	ель Windows для Oracle:				
⊳ Имя: orac	le12c				
⊳ Пароль: Е	novia123.				
⊳ Должен с маленьку огасtе Database 12c Кецевский огасtе Database 12c Кецевский	одержать большую букву, ю букву, цифру, спец. символ.				
Specify Oracle Home User					
Configure Security Updates Installation Option Database Edition Oracle Home User Installation Location Perceputate Checks	For enhanced security, you may choose to run Windows Services from this Oracle home with a non-administrator account. Oracle recommends that you choose a Virtual Account or specify a standard Windows User Account Use Yirtual Account Use Existing Windows User User Name: Password:				
Summary Install Product Finish	Create New Windows User Uger Name:     oracle12c      Pgssword:     Confrm Password     The newly created user is denied Windows logon privileges.				
В зависимости от настроек политики безопасности ОС установщик может сообщить, что запрещено использовать одинаковое имя пользователя и пароль. В таком случаем					

можно указать пароль Enovia123 или изменить соответствующую политику в ОС

🕌 Oracle Database 12c Release 2 Inst	taller - Step 6 of 10 —	
Specify Installation Location		12 <sup>c</sup>
Configure Security Updates Installation Option Database Edition Oracle Home User Installation Location Prerequise Checks Summary Install Product Pinish	Specify a path to place all Oracle software and configuration-related files installed by this installation This location is the Oracle base directory for the installation owner. Qracle base: C:\Oracle Specify a location for storing Oracle database software files separate from database configuration to Oracle base directory. This software directory is the Oracle database home directory. Software location: C:\Oracle\product\12.2.0\dbhome_1	owner. Browse Browse
Help	< <u>Back</u> _install	Cancel

 Изменяем предложенный путь установки ПО C:\Oracle



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4	Oracle Database 12c Release 2 In	staller - Step 7 of 10 — 🗆 🗙	🚳 Oracle Database 12c Release 2 Ir	Installer - Step 8 of 10 >	<
Pe	rform Prerequisite Check		Summary		;
0-0	Configure Security Updates Installation Option Database Installation Options Database Edition Oracle Home User Installation Location Prerequisite Checks Summary Install Product Finish	Verifying that the larget environment meets minimum installation and configuration requirements for products you have selected. This can take time. Please wait.           0%           Preparing to perform checks	Configure Security Updates Installation Option Database Installation Option Database Edition Oracle Home User Installation Location Prerequisite Checks Summary Instal Product Finish	Oracle Database 12c Release 2 Installer     Global settings     Disk space: required 6.0 GB available 21.23 GB [Edit]     Oracle Home User: oracle12c [Edit]     Source location: C12020X112.2.0 IdatabaseVinstalittstagetproducts.xml     Database edition: Enterprise Edition (Install database software only) [Edit]     Oracle base: C10racle [Edit]     Software location: C107acleViroduct12.2.0Vdbhome_1 [Edit]     OraMTS Port Number: 49152	
	Во время уста сообщение об такое происхо встроенной уч	новки ПО БД установщик может выдать ошибке "Failed to create Oracle home user" – дит, если установка выполняется не из под етной записи Administrator		Save Response File	
	Help	< <u>Back</u> Next > Install Cancel	Help	< <u>Back</u> <u>Next</u> > Install Cance	0



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🙆 Oracle Database 12c Release 2 In	nstaller - Step 9 of 10	– 🗆 ×	🚳 Oracle Database 12c Release 2	Installer - Step 10 of 10	- 🗆 ×
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Help	< <u>B</u> ack	Next > Install Cancel	Help	< <u>B</u> ack	Next > Install Close







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	Network Address Protocol: TCP/IP Host #422-if/we Port 1521 Show Advanced		No database services explicitly configured for this listener. Oracle8i release 8.1 databases will dynamically register with the listener.
	Add Address Remove Address Help		Add Database Remove Database Help



Si Oracle Net Manager - C:\Or	racle\product\12.1.0\dbhome_1\NETWORK\ADMIN\
Elle Edit Command Help	Database Services         Database1         Global Database Name:         Oracle Home Directory:         SiD:             FWECDE              SiD:
	Add Database Remove Database Help



- Global Database Name: IFWECDB
- ► SID: IFWECDB







Стартуем службу Oracle Listener

C:\> Isnrctl start

oracle12c



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-Administrator: Command Prompt C:4. Connecting to <DESCRIPTION=<ADDRESS=<PROTOCOL=TCP><HOST=r422-ifwe><PORT=1521>>> The command completed successfully Вводим пароль (Enovia123.) для пользователя C:\Users\Administrator>lsnrctl start LSNRCTL for 64-bit Windows: Version 12.1.0.2.0 - Production on 28-NOV-2019 16:53 :34 Copyright (c) 1991, 2014, Oracle. All rights reserved. Starting tnslsnr: please wait... TNSLSNR for 64-bit Windows: Version 12.1.0.2.0 - Production System parameter file is C:\Oracle\product\12.1.0\dbhome\_1\network\admin\listene r.ora Log messages written to C:\Oracle\product\12.1.0\dbhome\_1\log\diag\tnslsnr\r422ifwe\listener\alert\log.xml Listening on: (DESCRIPTION=(ADDRESS=(PROTOCOL=tcp)(HOST=r422-ifwe)(PORT=1521))) Connecting to (DESCRIPTION=<ADDRESS=<PROTOCOL=TCP><HOST=r422-ifwe><PORT=1521>>) STATUS of the LISTENER Alias LISTENER TNSLSNR for 64-bit Windows: Version 12.1.0.2.0 - Produ Version ction Start Date 28-NOU-2019 16:53:39 Uptime O days O hr. O min. 8 sec Frace Level off **ON:** Local OS Authentication Security SNMP OFF Listener Parameter File C:\Oracle\product\12.1.0\dbhome\_1\network\admin\listen er.ora istener Log File C:\Oracle\product\12.1.0\dbhome\_1\log\diag\tnslsnr\r42 2-ifwe\listener\alert\log.xml istening Endpoints Summary... (DESCRIPTION=(ADDRESS=(PROTOCOL=tcp)(HOST=r422-ifwe)(PORT=1521))) Services Summary... Service "IFWECDB" has 1 instance(s). Instance "IFWECDB", status UNKNOWN, has 1 handler(s) for this service... The command completed successfully C:\Users\Administrator>





#### Файлы listener.ora & tnsnames.ora

C:\Oracle\product\12.1.0\dbhome_1\NETWORK\ADMIN\listener.ora - Notepad++ [A		
<pre>File Edit Search View Encoding Language Settings Tools Macro Run Plugins Window ?</pre>	🔐 C:\C	Dracle\product\12.1.0\dbhome_1\NETWORK\ADMIN\listener.ora - Notepad++ [A 💶 🗖 🗙
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Database Configuratio	n Assistant - Create 'orcl' database - Step 1 of 14 M		Select Database Configuration	Assistant - Create a database - Step 2 of 14 Mode	04	
Database Operation     Creation Mode     Desponsent Type     Database Identification     Satrage Option     Satrage Option     Database Options     Configuration Options     User Credentiats     Creation Option     Summary     Progress Page     Finish	Select the operation that you want to perform. <ul> <li>Grade a dabbase</li> <li>Configure an existing database</li> <li>Delete database</li> <li>Manage templates</li> <li>Manage Europable databases</li> <li>Oracle RAC database Instance management</li> </ul>		Database Operation     Creation Mode     Deployment True     Database Identification     Storage Option     Fast Recovery Option     Database Options     Configuration Options     Wanagement Options     User Credentials     Creation Option     Summary     Progress Page     Finisth	● Upical configuration         Global database name:       □VOIPWE         Blorage type:       File System         Database files location:       (ORACLE_BASE)         Fgst Recovery Area (FRA):       (ORACLE_BASE)         Database gharacter set:       AL32UTF8 - Unio         Administrative password:       □         Oracle home yser password       □         Ørade home yser password       □         Ørade ac Container database       Pluggable database name:         ③ Adganced configuration       □	oradatal(DB_UNICUE_NAME) fast_recovery_areal(DB_UNICUE_NAME) de UTF-8 Universal character set	Browse.     B
Help		< Back Next > Einish Cancel	Help		< <u>B</u> ack Net	xt> Einish Cancel



**Interview Configuration Assistant - Create a database - Step 3 of 14** × DRACLE 170 Select Database Deployment Type DATABASE Select the type of database you want to create. Creation Mode Database type: Oracle Single Instance database Deployment Type Database Identification Select a template for your database. Templates that include datafiles contain pre-created databases. They allow you to create a new database quickly. Use templates without datafiles only when necessary, such as when you need to change attributes like block size that cannot be altered after database creation. Template name Include datafiles Details Data Warehouse Yes View details General Purpose or Transaction Processing Yes View details Custom Database No View details Change.. Template location: C:\Oracle\product\12.2.0\dbhome 1\assistants\dbca\templates Help < Back Next > Cancel



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#### L'INSTRUCTOR OF ANNAL:

Oracle      Database Configuration	SID: IFWECDB	Database Configuration	n Assistant - Create 'DVDCDB' database - Step 5 of 14 — 🗆 🔅
Specify Database Identifica	ation Details	Select Database Storage	Option CRACLE 12
Database Operation Creation Mode Deteloyment Tite Database Mentification Storae Option Fast Recovery Options Configuration Options Management Options User Creation Options Summary Progress Page Finish	Provide a unique database identifier information. An Oracle database is uniquely identified by a Global database name, typically of the form 'name.domain'.  Global database name: FVECODE SID: FVECOB SiD: FVECOB Signice name C  C greate as Container database A Container database A Container database (COB) can have zero or more pluggable databases (PDB).  C Use Local Undo tablespace for PDBs C Greate an empty Container database C Greate a Container database C Greate a Container database C Greate an empty Container database C Greate an empty Container database C Greate an empty Container database C Greate a Container database C Greate an empty Container database C Greate an empty Container database C Greate an empty Container database C Greate a Container database C Greate a Container database C Greate an empty Container database C Greate an empty Container database C Greate a Container database C Greate an empty Container database C Greate an empty Container database C Greate an empty Container database C Greate a Container database C Greate C Container database C Greate C Container database C G Greate C Container database C G Greate C Container database C G Greate C C G G G C Container G G G G G G G G G G G G G G G G G G G	Database Operation     Creation Mode     Deployment Type     Database Identification     Storage Option     East Recovery Option     Database Options     Management Options     User Ordentials     Creation Option     Summary     Progress Page     Finish	Use template file for database storage attributes Storage type and location for database files will be picked up from the specified template (General Purpose or Transaction Processing). Use Grade-Managed files will be put at the specified tocation below. You can customize the name and location of each datafile in the subsequent screen. Database files storage type: File System Database files option will enable Oracle to automatically generate the names of the datafiles for simplified database management. Use Grade-Managed Files (OMF) File location yariables File Storage Files
Help	< <u>Back</u> <u>Next&gt;</u> <u>Finish</u> Cancel	Help	<back next=""> Einish Canc</back>



# Создание БД для компонентов Платорормы

⊳ Парс	оль: Enovia123.		
Database Configuada	льдля Окасleь Ноте / User: – 🗆 🗙	🔬 Database Configuration	n Assistant - Create 'DVDCDB' database - Step 7 of 14 X
Select Fast Recovery Option		Specify Network Configur	ration Details
Database Operation Creation Mode Deployment Type Database Identification Storace Option Fast Recovery Option Database Option Configuration Options User Credentials Creation Options User Credentials Creation Option Summary Progress Page Finish	Choose the recovery options for the database.          Specify East Recovery Area         Recovery files glorage hype:         Fast Recovery Area size:         05461         Image: The State of the Stateo	Database Operation Creation Mode Deployment Type Database identification Storage Option East Recovery Option Configuration Configuration Options User Oredentitals Creation Option Summary Progress Page Finish	Listener selection         Listeners from current Oracle home are listed below. Specify the listener name and port to create a new listener in current Oracle home.         V       LISTENER         1521       C:10racle@product12.2.0/dbhome_1         Up       Up
Help	< <u>Back</u> <u>Next&gt;</u> Einish Cancel	Help	<back next=""> Elnish Cancel</back>





•	J Database Configuration Assistant - Create DVDCDB Gatabase - Step 8 01 15		
S	lect Oracle Data Vault Config Option		LE P
	Database Operation         Creation Mode         Deployment Type         Database Identification         Storage Option         Fast Recovery Option         Network Configuration         Data Vauit Option         Configure Oracle Database Yault         Database Identification         Data Vauit Option         Network Configuration         Data Vauit Option         Configure Oracle Label Security         Management Options         Summary         Progress Page         Finish	Confirm password:	





# 

ланного материала

🛓 Database Configuration Assistant - Create 'DVDCDB' database - Step 9 of 15	- 🗆 X	Database Configuration Assistant - Create 'DVDCDB' database	- Step 9 of 15 X
Specify Configuration Options		Specify Configuration Options	
Database Operation       Memory       Sting       Character sets       Connection mode       Sample         Deprovement Type       Deprovement Type       Soft area Option       Storage Option       Storage Option       Storage Option       Description       Storage Option       Oute Manual Shared Memory Management         Data Value Cetoon       Data Value Cetoon       Shared option State       Description       Description         Maaagement Cetions       Use Creation Options       Use Creation Option       Shared pool size       Data Value Cetions         User Creation Option       State       Data Value Cetions       Definition       Definition         Progress Page       Finish       Total memory for database 0 MB       Use Automatic Memory Management         Memory target:       0143/MB       0143/MB       Description	g schemas 300 8045 15358 0 ♀ 445 0 ♀ 445 0 ♀ 445 300 €443 15358 39%	Database Operation Creation Mode Deployment Type Database Kennification Storage Option Fast Recovery Option Network Configuration Data Yauli Cotions Configuration Options Case Credentias Creation Option Summary Progress Page Finits	annection mode Sample schemas location and for I/O. It cannot be changed once the database is created. system user processes that can be simultaneously connected to this database. The value of s and the Oracle background processes.
Help	<back next=""> Finish Cancel</back>	Help	< <u>Back</u> <u>N</u> ext> <u>Einish</u> Cancel







< Back Next >

Cancel

Установите параметры строго в соответствии с

- Параметр Database Character Set должен быть строго Use Unicode (AL32UTF8), его нельзя изменить впоследствии
- Default Language и Territory может быть изменен в реестре после создания БД при необходимости (UTF8, English USA, USA)

Ta pa	Database Configuration A BKAЯ ЯЗЫКС ecify Configuration Optio B3ДЕЛИТЕЛ	Аззізталт - Create 'DVD ОВАЯ НАС' Я в БД (Т	෦෦ඁ෦ඁඁ෦ඁ෯෯ඁඁ෫ඁ෦෦ඁ෯෯ ючка и запятая)	× 12 <sup>c</sup>
Ŷ	Database Operation	Memory Sizing C	haracter sets Connection mode Sample schemas	
	Creation Mode Deployment Type Database Identification Storage Option Fast Recovery Option Network Configuration	Use Unicode (AL32L Setting character set     Use OS gharacter set     Character set is bas	ser determines now character data is store on the database. JTF8) to Unicode (AL32UTF8) enables you to store multiple language groups. It (WEBMSWIN1252) ed on the language setting of this operating system.	
Ļ	Data Vault Option	O Choose from the list	of character sets	
	Configuration Options		AL32UTF8 - Unicode UTF-8 Universal character set	Ŧ
<b>9</b> -0-0-0-0-0	Management Options User Credentials Creation Option Summary Progress Page Finish	National character set: Default janguage: Default jerritory:	Show recommended character sets only      UTF8 - Unicode 3.0 UTF-8 Universal character set, CESU-8 compliant     American     United States	•





ORACLE

Help

# Создание БД для компонентов Платоромы

- ⊳ Пароль: Enovia123.
- ▷ Пароль для Oracle Home User : Enovia123.

🛓 Database Configuration	Assistant - Create 'DVDCDB' database	- Step 11 of 15		- 🗆 X	(
Specify Database User Cre	dentials			DATABASE 12	С
<ul> <li>Database Operation</li> </ul>	You must specify passwords for the follow	ing user accounts in the new o	database for security reasons.		
Creation Mode	Use different administrative passwords				
Deployment Type	Password		Confirm password		
<ul> <li>Database Identification</li> </ul>	SYS				
Storage Option	SYSTEM				
<ul> <li>Fast Recovery Option</li> </ul>	0_01Lm				
Network Configuration	PDBADMIN				
Data Vault Option		l for all accounts			
Management Options	Password:	Confi	firm password: •••••••		1
User Credentials					1
Creation Option	The database Oracle home is installed w run as Oracle home user account.	ith a Oracle home user (oracle	e12c). Windows service for the o	database will be configured to	
Summary	Oracle home user password:				
Progress Page					-
5 Finish					
Help			< Back N	ext > Einish Cancel	



DATABASE

# расположения файлов БД

 Нажмите на All Initialization Parameters, чтобы посмотреть расположение будущих файлов данных

🛓 Database Configuratio	on Assistant - Create 'DVDCDB' database - Step 12 of 15	- 0	>
Select Database Creatio			2
Patabase Operation	Select the database creation options.		
Creation Mode	✓ Create database		
Deployment Type	Specify the SQL scripts you want to run after the database is created. The scripts are run in the order listed be	elow.	
Database Identification Storage Option	Post DB crgation scripts:	Brow	vse
Fast Recovery Option	Save as a database template		
Network Configuration	Template name: dbra template 2020.02.11 12-28.40.PM		
Data Vault Option	Template [ocation: C:\Oracle\product12.2.0idbhome_1\assistants\dbcallemplates\	Brow	
Management Options	Description:		
User Credentials			
Creation Option	Generate database creation scripts		
Summary	Destination directory: [ORACLE_BASE]\admin\[DB_UNIQUE_NAME]\scripts	Brow	<u>/</u> Se
Progress Page			
Finish	Following advanced configuration options can be used to configure initialization parameters and customize data	base storage loca	tion
	All Initialization Parameters	ze Storage Locatio	ons
Help	< Back Next >	Einish	ar



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ref.:

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## 

 Необходимо изменить значения 5 параметров, приведенных в таблице в соответствии с рисунками

Creation Mode Deployment Type	Create database				
Deployment Type					
	Specify the SQL scripts	you want to run after the databa	ase is created. The scripts :	are run in the order listed l	below.
Database Identification	Post DB creation script	(a) an experimental second			
	r oscob cigation script	all initialization para	ameters		
				and Defects the Own	
	ave as a database jen	each initialization param	parameters only when it is leter and its valid set of valu	required. Relef to the Orac	se documentation to ream m
	Template name: db	e de la manual de la manuel de la			
Data Vault Option		(Storage related parameter(s)	value is shown in MB)		Show advanced
Configuration Options		Name A	Value	Include in spfile	Category
	Description	optimizer_adaptive_reporti	FALSE		Optimizer
		optimizer_adaptive_statistics	FALSE		Optimizer
User Credentials	Conorate database groa	optimizer_capture_sql_pla	FALSE		Optimizer
Creation Option	Generate database crea	optimizer_dynamic_sampli	2		Optimizer
	Destination directory:	optimizer_features_enable	12.2.0.1		Optimizer
summary	-	optimizer_index_caching	99	×	Optimizer
		optimizer_index_cost_adj	1	V	Optimizer
	Following advanced config	optimizer_inmemory_aware	TRUE		Optimizer
	Tonowing advanced comig	optimizer_mode	choose	V	Optimizer
	All Initialization Parameter	optimizer_secure_view_me	TRUE		Optimizer
		optimizer_use_invisible_in	FALSE		Optimizer
		optimizer_use_pending_st	FALSE		Optimizer
		opumizer_use_sql_plan_b	TRUE		Optimizer
		os_autnent_pretix	opsa FALOF		Security and Auditing
		os_roles	PALSE		Security and Auditing
		oubound doink brotocols	ALL		Distributed, Reblication an
		Description:			
		ontimizer index caching Adi	usts the cost-based ontimi	zer's assumptions for what	at nercentage of index blocks
		expected to be in the buffer ca	che for nested loons joins	This affects the cost of ex	recuting a nested loons join )
		copected to be in the building	some for medica reaps joints.	This directs the cost of es	county a neoted toopo join a
		on index is used Setting this	norometer to a higher value	a makes nested loons joir	a look lace expensive to the

Name	Value	Override Def
query_rewrite_integrity	trusted	Yes
session_cached_cursors	100	Yes
optimizer_mode	choose	Yes
optimizer_index_caching	99	Yes
optimizer_index_cost_adj	1	Yes

				-
Name	Value	Include in spfile	Category	4
db_create_file_dest	{ORACLE_BASE}\oradata\{	V	File Configuration	Ľ
db_name	DVDCDB	$\checkmark$	Database Identification	2
diagnostic_dest	{ORACLE_BASE}	V	Diagnostics and Statistics	
dispatchers	(PROTOCOL=TCP) (SERVI	$\checkmark$	Shared Server	
local_listener	LISTENER_DVDCDB	$\checkmark$	Network Registration	
nls_language	AMERICAN	V	NLS	
nls_territory	AMERICA		NLS	
open_cursors	300	$\checkmark$	Cursors and Library Cache	
optimizer_index_caching	99	$\checkmark$	Optimizer	
optimizer_index_cost_adj	1	$\checkmark$	Optimizer	
optimizer_mode	choose	$\checkmark$	Optimizer	
pga_aggregate_target	2012	$\checkmark$	Sort, Hash Joins, Bitmap Indexes	
processes	500	$\checkmark$	Processes and Sessions	
query_rewrite_integrity	trusted	V	Optimizer	
remote_login_passwordfile	EXCLUSIVE	$\checkmark$	Security and Auditing	
session cached cursors	100	V	Cursors and Library Cache	



ORACLE

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ORACLE DATABASE

Платформы

B- Database Configuration Assistant

SID: DVDCDR

Initialization Parameters

audit trail: db - compatible: 12.2.0

db name: DVDCDB diagnostic dest (ORACLE BASE) dispatchers: (PROTOCOL=TCP) (SERVICE=DVDCDBXDB) local\_listener: LISTENER\_DVDCDB nis language: AMERICAN nis territory AMERICA open cursors: 300 optimizer\_index\_caching: 99 optimizer index cost adi: 1 optimizer\_mode: choose pga\_aggregate\_target\_2012 MB processes: 500 query\_rewrite\_integrity: trusted remote\_login\_passwordfile: EXCLUSIVE session\_cached\_cursors: 100 sga\_target 6034 MB undo\_tablespace: UNDOTBS1 - Character sets

- Global database name: DVDCDB

Create as Container database: Yes

Number of Pluggable Databases: 1

Template name: Ceneral Purnose

db block size: 8192 BYTES

Database character set AL32UTF8 National character set: UTF8

- Data Files

Pluggable Database Name: DVDPDB

Database Files Storage Type: File System

Configuration type: Oracle Single Instance database

- Memory Configuration Type: Automatic Shared Memory Management

audit\_file\_dest {ORACLE\_BASE}\admin\{DB\_UNIQUE\_NAME}\adump

db create file dest (ORACLE BASE)/oradata//DB UNIQUE NAME)/

FILE (ONE EVENIN DATAEILE) Tablespace EVENIN STORE 400

< Back

Einish

Global Settings

Summary

Database Operation

Deployment Type

Database Identification

Fast Recovery Option

Network Configuration

Configuration Options

Management Options

Data Vault Option

User Credentials

Creation Option Summary

Help

Creation Mode

Storage Option





DATABASE

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DATABASE

Настройка (coal panips в Oracle (thsnames.ora) Проверьте файл thsnames.ora. Путь: C:\Oracle\product\12.1.0\dbhome\_1\NETWORK\A DMIN

При необходимости отредактируйте файл

IFWEPDB =
(DESCRIPTION =
(ADDRESS_LIST =
(ADDRESS = (PROTOCOL = TCP) (HOST = r422-ifwe) (PORT = 1521))
)
(CONNECT_DATA =
(SERVICE_NAME = IFWEPDB)
)

	C:\Oracle\product\12.1.0\dbhome_1\NETWORK\ADMIN\tnsnames.ora - Notepad++ [Administrator]	x
File Edit	Search View Encoding Language Settings Tools Macro Run Plugins Window ?	Х
	] 🖻 🔓 🕼 🌡 🔏 🛅 🚺 🤉 🕊 🗰 🍢 🤏 👒 🖫 🖫 🖬 🎼 1 🎼 💷 ಖ 🖾 🔊 🔍 🔍 💷 🕬 🔤	
🔚 hosts 🔀	📄 listener.ora 🔀 📄 Insnames.ora 🖾 📄 new 1 🖾 📄 ORACLE_LOG.bd: 🗵 🚍 ORACLE_LOG_2020x.bd: 🗷 📄 httpd://ornf 🔀 📄 httpd/mpm.conf 🔀	155 < >
1 #	tnsnames.ora Network Configuration File:	^
C	:/Oracle/product/12.1.0/dbhome_1/network/admin/tnsnames.ora	
2 #	Generated by Oracle configuration tools.	
3		
4 I	JISTENER_IFWECDB =	
5	(DESCRIPTION =	
6	(ADDRESS_LIST =	
7	(ADDRESS = (PROTOCOL = TCP)(HOST = r422-ifwe)(PORT = 1521))	
8	)	
9	(CONNECT_DATA =	=
10	(SERVICE_NAME = LISTENER_IFWECDB)	
11	)	
12	)	
13		
14 I	FWEPDB =	
15	(DESCRIPTION =	
16	(ADDRESS_LIST =	
17	(ADDRESS = (PROTOCOL = TCP) (HOST = r422-ifwe) (PORT = 1521))	
18	·	
19	(CONNECT_DATA =	
20	(SERVICE_NAME = IFWEPDB)	
21	1	~
Normal text	tfile length: 551 lines: 24 Ln: 7 Col: 15 Sel: 0   0 Windows (CR LF) UTF-8	INS
U <sub>10</sub>		1 - 40

)



#### 

Настройте тип запуска службы Startup type в "Automatic", перезапустить службу OracleOraDB12Home1TNSListener Настройте тип запуска службы Startup type в "Automatic", перезапустить службу OracleServiceR422IFWE

Из командной строки CMD выполнить следующие команды C:\> Isnrctl status C:\> tnsping IFWEPDB

#### C:\> sqlplus system/Enovia123@IFWEPDB

#### pooft Window

Administrator: Command Prompt

\_ **D** X

Microsoft Windows [Version 6.3.9600] (c) 2013 Microsoft Corporation. All rights reserved.

C:\Users\Administrator>tnsping IFWEPDB

INS Ping Utility for 64-bit Windows: Version 12.1.0.2.0 - Production on 26-NOV-2 019 14:01:49

Copyright (c) 1997, 2014, Oracle. All rights reserved.

Used parameter files: C:\Oracle\product\12.1.0\dbhome\_1\network\admin\sqlnet.ora

Used INSNAMES adapter to resolue the alias Attempting to contact (DESCRIPTION = (ADDRESS\_LIST = (ADDRESS = (PROTOCOL = TCP) (HOST = r422-ifwe)(PORT = 1521))) (CONNECT\_DATA = (SERUICE\_NAME = IFWEPDB))) OK (O msec)

C:\Users\Administrator>

Contra Co	Administrator. command Prompt	
Microsoft Windows [Versic (c) 2013 Microsoft Corpo	on 6.3.9600] Pation. All rights reserved.	
C:\Users\Administrator>ls	enretl status	
LSNRCTL for 64-bit Windou :50	vs: Version 12.1.0.2.0 - Production on 26-NO	V-2019 13:48
Copyright (c) 1991, 2014,	. Oracle. All rights reserved.	
Connecting to (DESCRIPTIC STATUS of the LISTENER	DN={ADDRESS={PROTOCOL=TCP}{HOST=r422-ifwe}{P	ORT=1521>>>
Alias	LISTENER	
Version	TNSLSNR for 64-bit Windows: Version 12.1.0	.2.0 - Produ
ction		
Start Date	26-NOU-2019 13:29:43	
Uptime	0 days 0 hr. 19 min. 11 sec	
Trace Level	off	
Security	ON: Local OS Authentication	
SNMP	OFF	16 11 11 12 12 13
Listener Parameter File	C:\Oracle\product\12.1.U\dbhome_1\network\	admin\listen
er.ora		
Listener Log File	C:\Uracle\product\12.1.U\abhome_1\log\alag	VLUS TEUL / 42
Z-1rwellistenerlaiertlio	J . XM1	
<pre>CDESCRIPTION=CADDRESS= (DESCRIPTION=CADDRESS= (DESCRIPTION=CADDRESS= wallet_directory=C:\ORAC DESCRIPTION=CADDRESS= Wallet_directory=C:\ORAC</pre>	rry PROTOCOL=tcp)(HOST=r422-ifwe)(PORT=1521))) (PROTOCOL=tcps)(HOST=r422-ifwe)(PORT=5500))( LLE\admin\IFWECDB\xdb_wallet))(Presentation=	Security=(my HTTP)(Sessio
Semuices Summanu		
Service "IFWECDB" has 1	instance(s).	
Instance "ifwecdb", sta	atus READY, has 1 handler(s) for this servic	e
Service "IFWECDBXDB" has	1 instance(s).	
Instance "ifweedb", sta	atus READY, has 1 handler(s) for this servic	e
Service "IFWEPDB" has 2 Instance "IFWEPDB", sta Instance "ifweedb", sta	instance(s). tus UNKNOWN, has 1 handler(s) for this serv tus READY, has 1 handler(s) for this servic	ice
The command completed suc	ccessfully	
C:\Users\Administrator>		



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C:4.

DATABASE



Необходать взмени в срокте и в редоля, который по умолчанию составляет 180 дней. C:\> sqlplus system/Enovia123@IFWEPDB SQL> ALTER PROFILE DEFAULT LIMIT PASSWORD\_LIFE\_TIME UNLIMITED;

> Administrator: Command Prompt - sciplus system/Enovia123@IFWEPDB Cit. C:\Oracle\product\12.1.0\dbhome\_1\network\admin\sqlnet.ora Used TNSNAMES adapter to resolve the alias Attempting to contact (DESCRIPTION = (ADDRESS\_LIST = (ADDRESS = (PROTOCOL = TCP) (HOST = r422-ifwe)(PORT = 1521)) (CONNECT\_DATA = (SERVICE\_NAME = IFWEPDB))) OK (0 msec) C:\Users\Administrator>sglplus\_system/Enovia123@IFWEPDB SQL\*Plus: Release 12.1.0.2.0 Production on Tue Nov 26 14:03:30 2019 Copyright (c) 1982, 2014, Oracle. All rights reserved. Last Successful login time: Tue Nov 26 2019 13:57:07 +03:00 Connected to: Oracle Database 12c Enterprise Edition Release 12.1.0.2.0 - 64bit Production With the Partitioning, OLAP, Advanced Analytics and Real Application Testing opt ions SQL> ALTER PROFILE DEFAULT LIMIT PASSWORD\_LIFE\_TIME UNLIMITED; Profile altered. SQL>





nmand Prompt	- sqlplus / as	sysdba	- • ×	Необход	цимо увеличить число соединений/сессий в Oracle:
0] 1 rights res	erved.		^	Sqlplus	/ as sysdba
is susdba				SQL> SE	ET lines 200 pages 1000
ation on Had	1	2-02 2010		SQL> SE	ELECT *
lection on wea	JUL 10 18-2	3-03 2019	=	FROM	My\$resource_limit
All rights	reserved.			WHE	RE resource name='processes':
tion Release	12.1.0.2.0 s and Real A	- 64bit Prod	uction	SQL> sh	now parameter sessions
1997 - 1997 - 1997 - <b>1</b> 997 - 199 - 1997 - 199 - 1997 - 19		e entre statistic de la se		SQL- SI	low parameter processes
				SQL> sh	now parameter transactions
cesses';				SQL> alt	ter system set processes=500 scope=spfile; ter system set sessions=555 scope=spfile:
RENT_UTILIZA VALUE	TION MAX_UTI	LIZATION INI	TIAL_ALLOC CON_ID	SQL> alt	ter system set transactions=610 scope=spfile;
200	67	77	300		Administration Command Descent collabor / commether
300					
				C:\USePS\Ha	ministrator/sqipius / as sysaba
TYPE	VALUE			SQL*Plus: R	Release 12.1.0.2.0 Production on Wed Jul 10 18:26:03 2019
integer	0			Copyright (	c) 1982, 2014, Oracle. All rights reserved.
integer	0				
integer				Connected t	
integer	472			Uracle Data	base 12c Enterprise Edition Release 12.1.U.2.U - 64bit Production
integer				ions	reletioning, ouni, navancea margeres and hear apprication reserv
				SOL> alter	sustem set nyoresses=500 scone=snfile:
TYPE	VALUE			Sustem alte	wed
integer	1				i na 2000. Na 2010 da la casa da casa na 1999 serang menang ang 1999 serang da sa mang sa sa tao sa
integer	1			SQL> alter :	system set sessions=555 scope=spfile;
integer	1			System alte	red.
integer	1000			o yo oon a coo	
integer	4			SQL> alter :	
1100901					system set transactions=610 scope=spfile;
integer	300			System alte:	system set transactions=blU scope=spfile; pred.
integer	300 VALUE			System alte: SQL> ALTER :	system set transactions=b10 scope=spfile; red. SYSTEM SET "_NLJ_BATCHING_ENABLED" = 0;
TYPE	300 VALUE			System alte: SQL> ALTER = System <u>alte</u> :	system set transactions=b10 scope=spfile; red. SYSTEM SET "_NLJ_BATCHING_ENABLED" = 0; ered.
	mmand Prompt 1001 11 rights res as sysdba action on Wed All rights ition Release nced Analytic pocesses'; RRENT UTILIZA UALUE 300 TYPE integer	mmand Prompt - sqlplus / as 101 11 rights reserved. as sysdba action on Wed Jul 10 18:2 All rights reserved. ition Release 12.1.0.2.0 nced Analytics and Real A bocesses'; ARENT_UTILIZATION MAX_UTI UNLUE 	mmand Prompt - sqlplus / as sysdba	<pre>mmand Prompt - sqlplus / as sysdba pol ll rights reserved. as sysdba action on Wed Jul 10 18:23:03 2019 All rights reserved. ition Release 12.1.0.2.0 - 64bit Production need Analytics and Real Application Testing opt ition Release 12.1.0.2.0 - 64bit Production need Analytics and Real Application Testing opt pocesses'; RRENT UTILIZATION MAX_UTILIZATION INITIAL_ALLOC UNLUE </pre>	mmand Prompt - sqlplus / as sysdba       Image: Constraint of the product of the produ

DASSAULT

#### laothonu

Для предотвращения возникновения ошибок ORA-0600, связанных с включенной настройкой \_NLJ\_BATCHING\_ENABLED = 1 выполните следующие команды в sqlplus: Sqlplus / as sysdba SQL> ALTER SYSTEM SET "\_NLJ\_BATCHING\_ENABLED" =0 scope=both; SQL> ALTER SYSTEM SET "\_optimizer\_batch\_table\_access\_by\_rowid"=FALSE scope=both;





Так же можно включить возможность подключаться к БД с помощью Oracle Enterprise Management, для этого необходимо выполнить команды: Sqlplus / as sysdba SQL> exec dbms\_xdb\_config.setglobalportenabled(TRUE);

#### После этого перейдите по адресу https://r422-ifwe.3dx.ds:5500/em

И введите логин и пароль пользователя



EM Express - Database Home × +     → C* ☆     Most Visited → VMware ESXi ♥ vSphere UI Ø v	ps://r422-ifwe. <b>3dx.ds</b> :5500/em/shell#/dbl Sphere Web Client 🔹 Портал Инженера Те.	home/show_regions •	- □ ••• ▽☆ III\ @ & Dash ② RUI Space ✔ mos-ru-exi-1
DRACLE Enterprise Manager Database	Express 12c		Help 🕶 📔 🎎 SYS 🛛 Log Out
Database Home	ge 👻 💑 Security 👻 🚧 Performance 👻	Page Refreshed 1:52:53 PM	GMT+0300 Auto Refresh 1 Minute V
Up Time 47 days, 10 minutes, 57 seconds Type Snole instance (fivecdb) CDB (1 PDB) Version 12.1.0.2.0 Enterprise Edition Database Name IF/VECDB Instance Name (fivecdb Platform Name Microsoft Windows x86 64-bit Host Name 4222FIVE Oracle Home C:[Oracle[product]12.1.0]@bhome_1 Thread 1 Loging Enterprise	Activity Class Services Contail	1:15 PM 1:25 PM 1:35 PM	Wait User 1/0 CPU 1/45 DM
Archiver Stopped	Host CPU	Active Sessions	Memory
✓ Running Jobs           In         Contal         Owner         Name         El         Started	1.6% - Other .8% - Instance(s) .4%	1	10 GB         PGA           8 GB         Ober SGA           6 GB         Shared 1/0 Pool           6 GB         Java Pool           4 GB         Lang-Pool           2 GB         Shared Pool           0 GB         Buffer Cache
No Running Jobs	SQL Monitor - Last Hour (20 max)	ID User	Parallel Database Time S.



Проверьте созданную контейнерную базу данных. Sqlplus / as sysdba SQL> column name format A30 SQL> show con name; SQL> select con id,name,open mode from v\$pdbs; Administrator: C:\Windows\system32\cmd.exe - sqlplus / as sysdba X SQL> column name format A30 SQL> show con name CON NAME CDB\$ROOT SQL> select con id,name,open mode from v\$pdbs; CON ID NAME OPEN MODE 2 PDB\$SEED READ ONLY 3 IFWEPDB MOUNTED SOL>

Первоначально, ее состояние должно быть указано как MOUNTED Чтобы открыть доступ к этой базе данных для сервисов платформы, необходимо открыть ее.

Sqlplus / as sysdba SQL> alter pluggable database DVDPDB open read write;

SQL> alter pluggable database DVDPDB save state;

Select Administrator: C:\Windows\system32\cmd.exe - sqlp	lus / as sysdba	(157)	×
SQL> alter pluggable database DVDPDB open r	ead write;		^
Pluggable database altered.			
SQL> alter pluggable database DVDPDB save s	tate;		
Pluggable database altered.			
SQL> select con_id,name,open_mode from v\$pd	bs;		
CON_ID NAME 0	PEN_MODE		
2 PDB\$SEED R	EAD ONLY		
3 IFWEPDB R	EAD WRITE		
SQL>			~



# Создание табличных пространств и пользователей для сервисов Платформы



Сервис 3DX	3DPassport	3DSpace	3DDashboard
Табличное пространство в Oracle	x3dpassadmin_ts x3dpasstokens_ts	space_data_ts space_index_ts	x3ddashadmin_ts
Пользователь в Oracle	x3dpassadmin x3dpasstokens	spaceuser	x3ddashadmin

Для создания экземпляров БД, схем и пользователей в рамках мастер-класса могут быть использованы соответствующие SQLкоманды (см. далее в этой презентации). Данные команды могут быть использованы для создания демонстрационных и тестовых установок 3DX Platform. Не гарантируется оптимальная работоспособность и быстродействие БД. Всегда сверяйтесь с Program Directories и DS Doc на предмет па поддерживаемой версии БД, параметров скриптов/команд, рекомендаций по оптимизации работы БД



# Создание табличных пространств и пользователей для сервисов Платформы



Сервис 3DX	3DSwym	3DComment	3DNotification
Табличное пространство в Oracle	x3dswym_social_ts x3dswym_media_ts x3dswym_widget_ts	x3dcomment_ts	x3dnotif_ts
Пользователь в Oracle	x3dswym x3dswym_media x3dswym_widget	x3dcomment	x3dnotif





# Создание табличных пространств для 3DPassport

 1. Создание табличных пространств в Oracle для 3DPassport

 Создание табличных пространств (Tablespace) выполняется из командной строки SQLPlus

 C:\> sqlplus / as sysdba

 SQL> ALTER SESSION SET CONTAINER=IFWEPDB;

 SQL> CREATE TABLESPACE x3dpassadmin\_ts

 DATAFILE 'C:\Oracle\oradata\IFWECDB\IFWEPDB\X3DPASSADMIN\_TS.DBF' SIZE 10M

 AUTOEXTEND ON NEXT 10M MAXSIZE UNLIMITED

 EXTENT MANAGEMENT LOCAL

 SQL> CREATE TABLESPACE x3dpasstokens\_ts

 DATAFILE 'C:\Oracle\oradata\IFWECDB\IFWEPDB\X3DPASSTOKENS\_TS.DBF' SIZE 10M

 AUTOEXTEND ON NEXT 10M MAXSIZE UNLIMITED

EXTENT MANAGEMENT LOCAL SEGMENT SPACE MANAGEMENT AUTO;



#### Создание пользователей для

3 D Pogas Gonsonare Тей в Oracle для 3DPassport

Создание табличных пространств (Tablespace) выполняется из командной строки SQLPlus C: > sqlplus / as sysdba

SQL> ALTER SESSION SET CONTAINER=IFWEPDB;

SQL> CREATE USER x3dpassadmin IDENTIFIED BY Qwerty12345; ALTER USER x3dpassadmin DEFAULT TABLESPACE x3dpassadmin\_ts; ALTER USER x3dpassadmin QUOTA UNLIMITED ON x3dpassadmin\_ts; GRANT CREATE SEQUENCE TO x3dpassadmin; GRANT CREATE SESSION TO x3dpassadmin; GRANT CREATE SYNONYM TO x3dpassadmin; GRANT CREATE TABLE TO x3dpassadmin; GRANT UNLIMITED TABLESPACE TO x3dpassadmin;

SQL> CREATE USER x3dpasstokens IDENTIFIED BY Qwerty12345; ALTER USER x3dpasstokens DEFAULT TABLESPACE x3dpasstokens\_ts; ALTER USER x3dpassadmin QUOTA UNLIMITED ON x3dpasstokens\_ts; GRANT CREATE SEQUENCE TO x3dpasstokens; GRANT CREATE SESSION TO x3dpasstokens; GRANT CREATE SYNONYM TO x3dpasstokens; GRANT CREATE TABLE TO x3dpasstokens; GRANT UNLIMITED TABLESPACE TO x3dpasstokens;



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# Создание табличных пространств для 3DDashboard

3. Создание табличных пространств в Oracle для 3DDashboard

C:\> sqlplus / as sysdba

```
SQL> ALTER SESSION SET CONTAINER=IFWEPDB;
```

SQL> CREATE TABLESPACE **x3ddashadmin\_ts** DATAFILE 'C:\Oracle\oradata\IFWECDB\IFWEPDB\X3DDASHADMIN\_TS.DBF' SIZE 10M AUTOEXTEND ON NEXT 10M MAXSIZE UNLIMITED EXTENT MANAGEMENT LOCAL SEGMENT SPACE MANAGEMENT AUTO;



#### Создание пользователей для

### 

C:\> sqlplus / as sysdba

SQL> ALTER SESSION SET CONTAINER=IFWEPDB;

SQL> CREATE USER **x3ddashadmin** IDENTIFIED BY **Qwerty12345**; ALTER USER x3ddashadmin DEFAULT TABLESPACE x3ddashadmin\_ts; ALTER USER x3dpassadmin QUOTA UNLIMITED ON x3ddashadmin\_ts; GRANT CREATE SESSION TO x3ddashadmin; GRANT RESOURCE TO x3ddashadmin; GRANT UNLIMITED TABLESPACE TO x3ddashadmin;





### Создание табличных пространств для



#### 

C:\> sqlplus / as sysdba

SQL> ALTER SESSION SET CONTAINER=IFWEPDB;

SQL> CREATE TABLESPACE **space\_data\_ts** DATAFILE 'C:\Oracle\oradata\IFWECDB\IFWEPDB\SPACE\_DATA\_TS01.DBF' SIZE 1024M AUTOEXTEND ON NEXT 100M MAXSIZE UNLIMITED EXTENT MANAGEMENT LOCAL SEGMENT SPACE MANAGEMENT AUTO;

SQL> CREATE TABLESPACE **space\_index\_ts** DATAFILE 'C:\Oracle\oradata\IFWECDB\IFWEPDB\SPACE\_INDEX\_TSO1.DBF' SIZE 1024M AUTOEXTEND ON NEXT 100M MAXSIZE UNLIMITED EXTENT MANAGEMENT LOCAL SEGMENT SPACE MANAGEMENT AUTO;



# Создание пользователей для 3DSpace



#### 6. Создание пользователей в Oracle для 3DSpace

```
C:\> sqlplus / as sysdba
```

```
SQL> ALTER SESSION SET CONTAINER=IFWEPDB;
```

SQL> CREATE USER spaceuser IDENTIFIED BY Qwerty12345; ALTER USER spaceuser DEFAULT TABLESPACE space\_data\_ts; GRANT CONNECT TO spaceuser; GRANT RESOURCE TO spaceuser; GRANT CREATE VIEW TO spaceuser; GRANT UNLIMITED TABLESPACE TO spaceuser;

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### Создание табличных пространств для



#### - Создание табличных пространств в Oracle для 3DSwym

C:\> sqlplus / as sysdba

SQL> ALTER SESSION SET CONTAINER=IFWEPDB;

SQL> CREATE TABLESPACE **x3dswym\_social\_ts** DATAFILE 'C:\Oracle\oradata\IFWECDB\IFWEPDB\X3DSWYM\_SOCIAL\_TS.DBF' SIZE 10M AUTOEXTEND ON NEXT 10M MAXSIZE UNLIMITED EXTENT MANAGEMENT LOCAL SEGMENT SPACE MANAGEMENT AUTO;

SQL> CREATE TABLESPACE **x3dswym\_media\_ts** DATAFILE 'C:\Oracle\oradata\IFWECDB\IFWEPDB\X3DSWYM\_MEDIA\_TS.DBF' SIZE 10M AUTOEXTEND ON NEXT 10M MAXSIZE UNLIMITED EXTENT MANAGEMENT LOCAL SEGMENT SPACE MANAGEMENT AUTO;

SQL> CREATE TABLESPACE **x3dswym\_widget\_ts** DATAFILE 'C:\Oracle\oradata\IFWECDB\IFWEPDB\X3DSWYM\_WIDGET\_TS.DBF' SIZE 10M AUTOEXTEND ON NEXT 10M MAXSIZE UNLIMITED EXTENT MANAGEMENT LOCAL SEGMENT SPACE MANAGEMENT AUTO;



### Создание пользователей для 3DSwym



8. Создание пользователей в Oracle для 3DSwym

C:\> sqlplus / as sysdba

SQL> ALTER SESSION SET CONTAINER=IFWEPDB;

SQL> CREATE USER **x3dswym** IDENTIFIED BY **Qwerty12345**; SQL> ALTER USER x3dswym DEFAULT TABLESPACE x3dswym\_social\_ts; SQL> GRANT CREATE SEQUENCE, CREATE SESSION, CREATE TABLE, CREATE VIEW TO x3dswym; SQL> GRANT CREATE PROCEDURE, CREATE TRIGGER, UNLIMITED TABLESPACE TO x3dswym;

SQL> CREATE USER x3dswym\_media IDENTIFIED BY Qwerty12345; SQL> ALTER USER x3dswym\_media DEFAULT TABLESPACE x3dswym\_media\_ts; SQL> GRANT CREATE SEQUENCE, CREATE SESSION, CREATE TABLE, CREATE VIEW TO x3dswym\_media; SQL> GRANT CREATE PROCEDURE, CREATE TRIGGER, UNLIMITED TABLESPACE TO x3dswym media;

SQL> CREATE USER x3dswym\_widget IDENTIFIED BY Qwerty12345; SQL> ALTER USER x3dswym\_widget DEFAULT TABLESPACE x3dswym\_media\_ts; SQL> GRANT CREATE SEQUENCE, CREATE SESSION, CREATE TABLE, CREATE VIEW TO x3dswym\_widget; SQL> GRANT CREATE PROCEDURE, CREATE TRIGGER, UNLIMITED TABLESPACE TO x3dswym widget;





# Создание табличных пространств для 3DComment

9. Создание табличных пространств в Oracle для 3DComment

C:\> sqlplus / as sysdba

```
SQL> ALTER SESSION SET CONTAINER=IFWEPDB;
```

SQL> CREATE TABLESPACE **x3dcomment\_ts** DATAFILE 'C:\Oracle\oradata\IFWECDB\IFWEPDB\X3DCOMMENT\_TS.DBF' SIZE 10M AUTOEXTEND ON NEXT 10M MAXSIZE UNLIMITED EXTENT MANAGEMENT LOCAL SEGMENT SPACE MANAGEMENT AUTO;



# Создание пользователей для 3DComment

```
10. Создание пользователей в Oracle для 3DComment
```

```
C:\> sqlplus / as sysdba
```

```
SQL> ALTER SESSION SET CONTAINER=IFWEPDB;
```

SQL> CREATE USER x3dcomment IDENTIFIED BY Qwerty12345; ALTER USER x3dcomment DEFAULT TABLESPACE x3dcomment\_ts; ALTER USER x3dcomment QUOTA UNLIMITED ON x3dcomment\_ts; GRANT CREATE SEQUENCE TO x3dcomment; GRANT CREATE SESSION TO x3dcomment; GRANT CREATE TABLE TO x3dcomment; GRANT CREATE VIEW TO x3dcomment; GRANT CREATE PROCEDURE TO x3dcomment; GRANT CREATE TRIGGER TO x3dcomment; GRANT UNLIMITED TABLESPACE TO x3dcomment;

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11. Создание табличных пространств в Oracle для 3DNotification

C:\> sqlplus / as sysdba

```
SQL> ALTER SESSION SET CONTAINER=IFWEPDB;
```

SQL> CREATE TABLESPACE **x3dnotif\_ts** DATAFILE 'C:\Oracle\oradata\IFWECDB\IFWEPDB\X3DNOTIF\_TS.DBF' SIZE 10M AUTOEXTEND ON NEXT 10M MAXSIZE UNLIMITED EXTENT MANAGEMENT LOCAL SEGMENT SPACE MANAGEMENT AUTO;



#### Создание пользователей для

#### 3 DNotification 12. создание пользователем в огасle для 3DNotification

C:\> sqlplus / as sysdba

SQL> ALTER SESSION SET CONTAINER=IFWEPDB;

SQL> CREATE USER x3dnotif IDENTIFIED BY Qwerty12345; ALTER USER x3dnotif DEFAULT TABLESPACE x3dnotif\_ts; ALTER USER x3dcomment QUOTA UNLIMITED ON x3dnotif\_ts; GRANT CREATE SEQUENCE TO x3dnotif; GRANT CREATE SESSION TO x3dnotif; GRANT CREATE TABLE TO x3dnotif; GRANT CREATE VIEW TO x3dnotif; GRANT CREATE PROCEDURE TO x3dnotif; GRANT CREATE TRIGGER TO x3dnotif; GRANT UNLIMITED TABLESPACE TO x3dnotif; ORACLE

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