

Инсталлирование инфраструктуры OAS 10g (OracleAS Infrastructure)

Цели

После завершения этого урока Вы должны получить навыки:

- **Определять требования к инсталляции инфраструктуры сервера приложений (OracleAS Infrastructure)**
- **Описывать типы инсталляций для инфраструктуры сервера приложений (OracleAS Infrastructure)**
- **Инсталлировать инфраструктуру сервера приложений (OracleAS Infrastructure)**
- **Осуществлять запуск и останов инфраструктуры сервера приложений (OracleAS Infrastructure)**

Службы и компоненты инфраструктуры OAS 10g (OAS 10g Infrastructure)

Служба	Описание	Компонент(ы)
Product Metadata service Продукт, портал, wireless	Схемы для таких компонентов, как портал и wireless	• OAS 10g метадата репозиторий
Identity Management service Управление доступом	Непротиворечивая модель защиты для всех приложений Единый источник защиты метаданных, содержащий все администрирование и привилегии пользователя	• Oracle Internet Directory • OracleAS Single Sign-On • Oracle Delegated Administration Services • Oracle Directory Integration and Provisioning • OracleAS Certificate Authority
Configuration Management service Управление конфигурацией	Схемы, включающие конфигурацию для инстансов OAS 10g	• OAS 10g метадата репозиторий

Инсталляция инфраструктуры (OracleAS Infrastructure): Обзор

Инсталляция инфраструктуры состоит из следующих шагов:

- **Преинсталляционные задачи:**
 - Проверка Metalink (<http://metalink.oracle.com>), installation guide и release notes.
 - Проверка требований к аппаратной платформе и операционной системе, внесение необходимых изменений.
 - Создание требуемых пользователей операционной системы и групп, как необходимо для инсталляции
- **Инсталляция:**
 - Выбор типа инсталляции и компонент для конфигурации.
 - Постинсталляционные задачи и тестирование конфигурации.

Минимальные требования к инсталляции инфраструктуры сервера приложений

	Solaris	Windows	Linux
CPU	296 MHz SPARC	Pentium 450 MHz	Pentium 450 MHz
Disk	2.6 GB	3.9 GB	2.6 GB
Memory	1 GB	1 GB	1 GB
Swap/Page	Swap 700 MB	Page 1GB	Swap 700 MB
Temporary	512 MB	512 MB	512 MB
Monitor	256 Color	256 Color	256 Color
Operating System	Solaris 8 or 9	Windows NT, 2000	Red Hat Linux AS 2.1

Oracle Application Server 10g также будет доступен на других платформах, таких как: HP-UX, AIX и т.п.

Установка переменных окружения

- Параметры ядра операционной системы (Linux, Unix)
- Переменные окружения:
 - TMP
 - DISPLAY
 - ORACLE_HOME, ORACLE_SID (убрать их, если они установлены)
- /etc/hosts файл
- Портом по умолчанию для metadata repository listener является порт 1521.

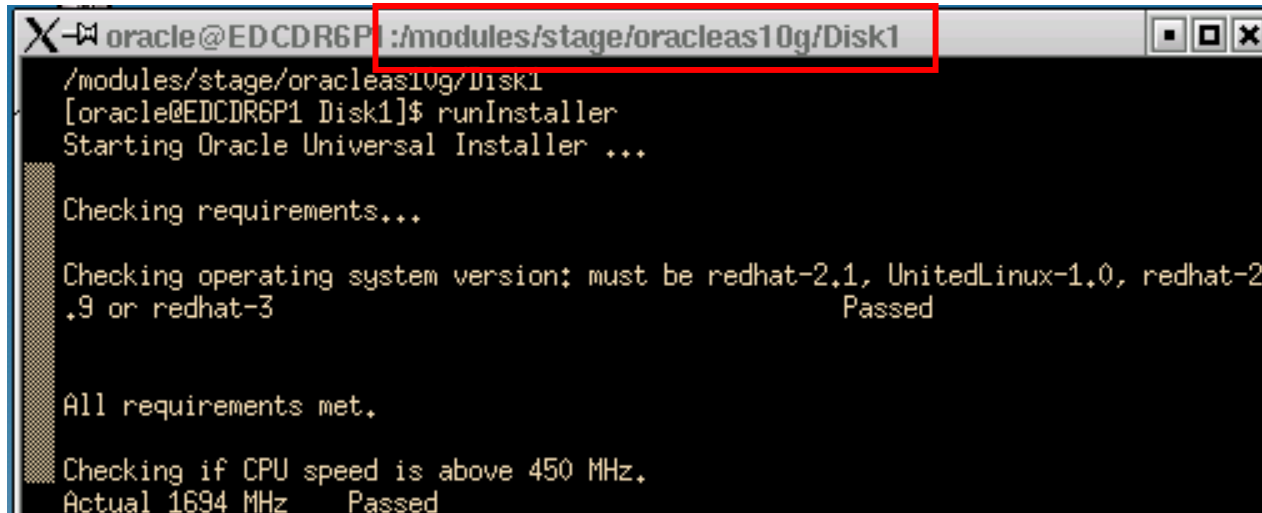
OracleAS Инфраструктура: шаги по инсталляции

- 1. Welcome**
- 2. Inventory Location**
- 3. File Location**
- 4. Product to Install**
- 5. Installation Type**
- 6. Preinstallation Requirement**
- 7. Configuration Option**
- 8. Identity Management Realm**
- 9. Certificate Authority**
- 10. Database Identification**
- 11. Infrastructure instance**

Запуск инсталляции

Для запуска инсталляции на UNIX/Linux системах:

- Вставьте Ваш Oracle Application Server 10g Release 9.0.4 медиа в CD-ROM (DVD-ROM) drive.
- Смонтируйте Ваш инсталляционный CD-ROM (DVD-ROM) drive.
- Запустите в shell Oracle Universal Installer с медиа.

A terminal window titled 'oracle@EDCDR6P1' with the current directory set to '/modules/stage/oracleas10g/Disk1'. The user has entered the command 'runInstaller', and the Oracle Universal Installer is running. The output shows the installer checking requirements, including the operating system version (Red Hat 2.1, UnitedLinux 1.0, Red Hat 2.9 or 3) and CPU speed (1694 MHz), both of which are passed.

```
X oracle@EDCDR6P1 /modules/stage/oracleas10g/Disk1
/modules/stage/oracleas10g/Disk1
[oracle@EDCDR6P1 Disk1]$ runInstaller
Starting Oracle Universal Installer ...

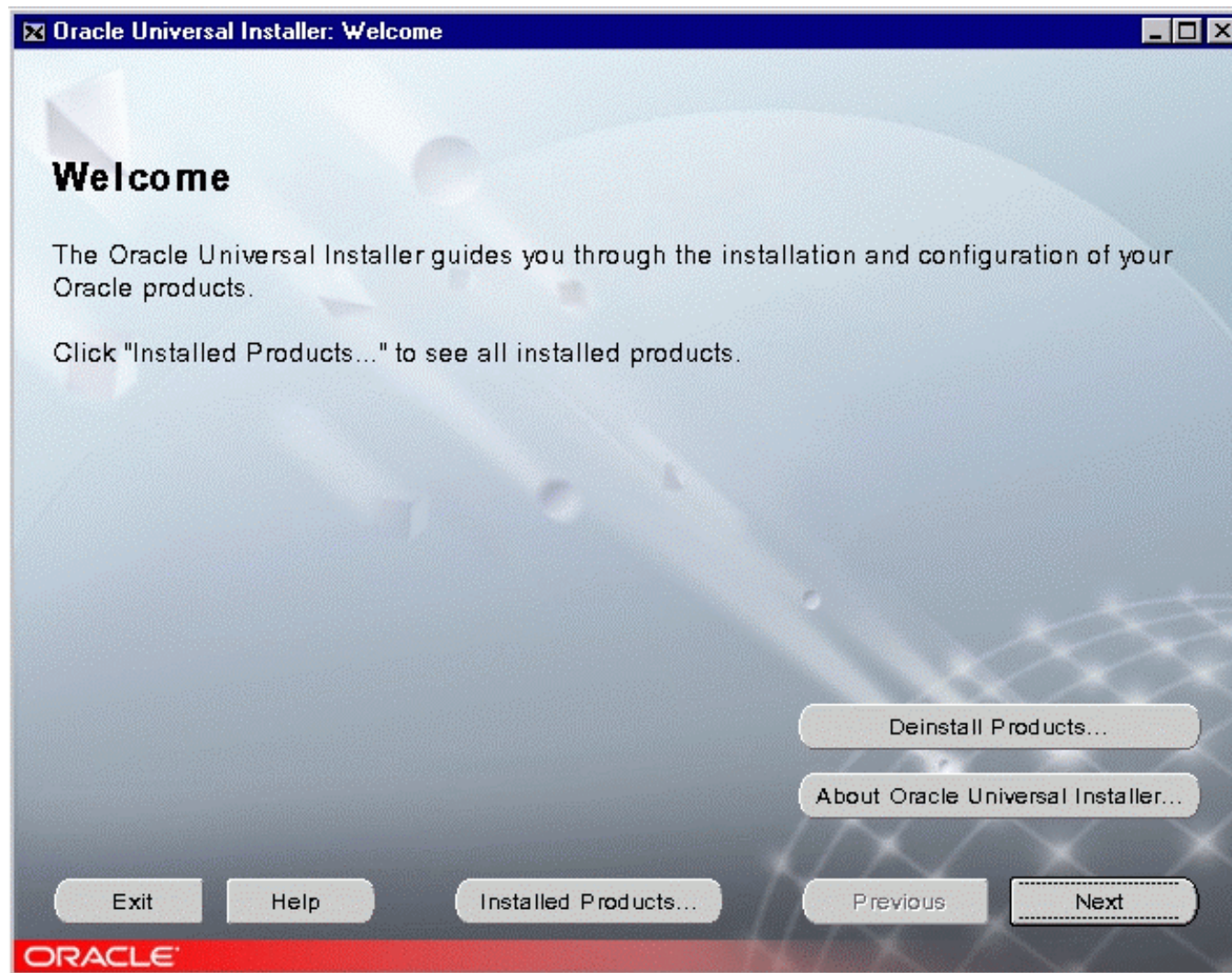
Checking requirements...

Checking operating system version: must be redhat-2.1, UnitedLinux-1.0, redhat-2.9 or redhat-3
                                     Passed

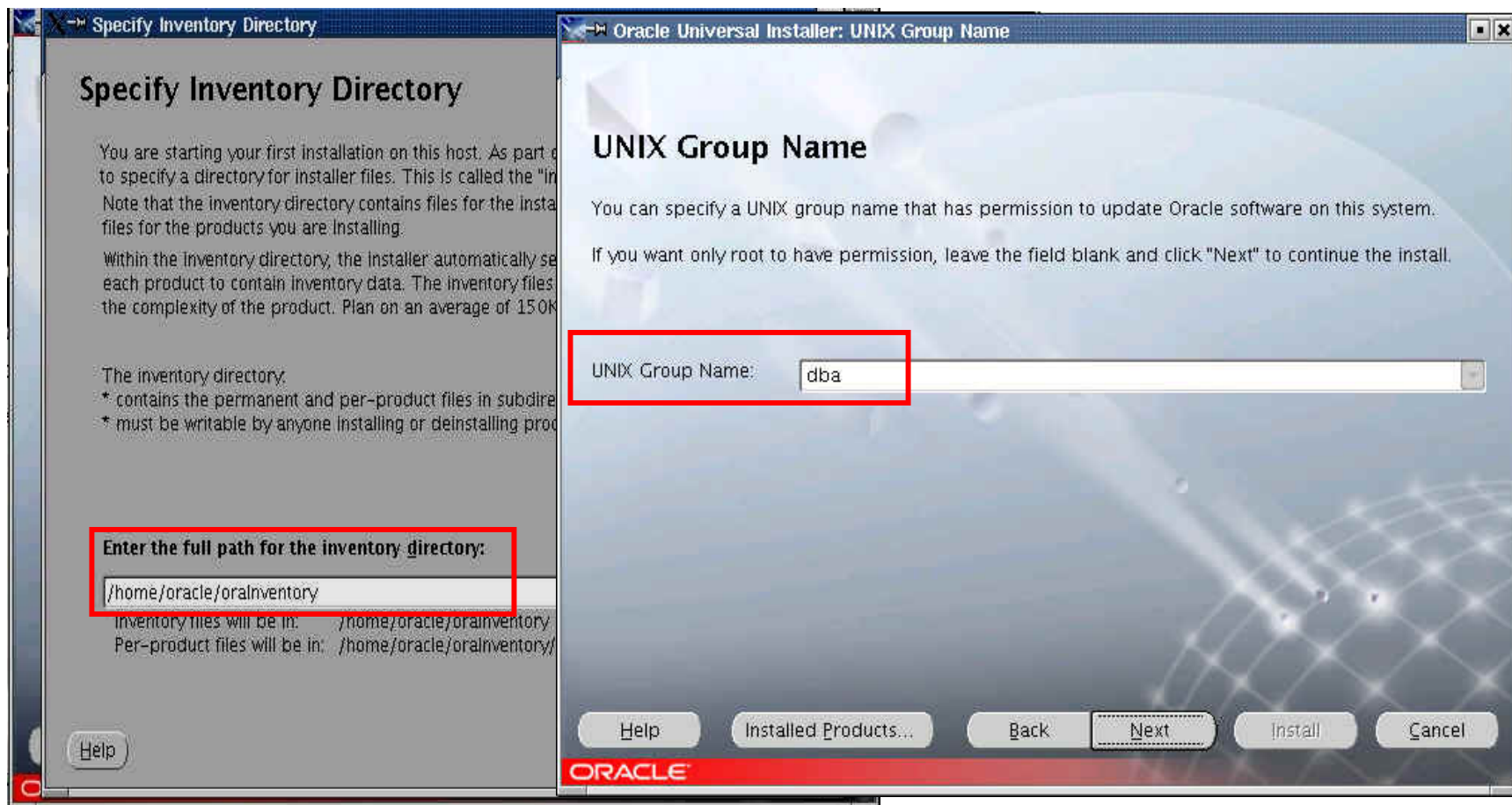
All requirements met.

Checking if CPU speed is above 450 MHz.
Actual 1694 MHz    Passed
```

Oracle Universal Installer запустился



В случае первой инсталляции Oracle продукта на данном хосте введите месторасположение Inventory и группу пользователей, имеющих право производить изменения с software



“Specify File Locations” Окно

Oracle Universal Installer: Specify File Locations

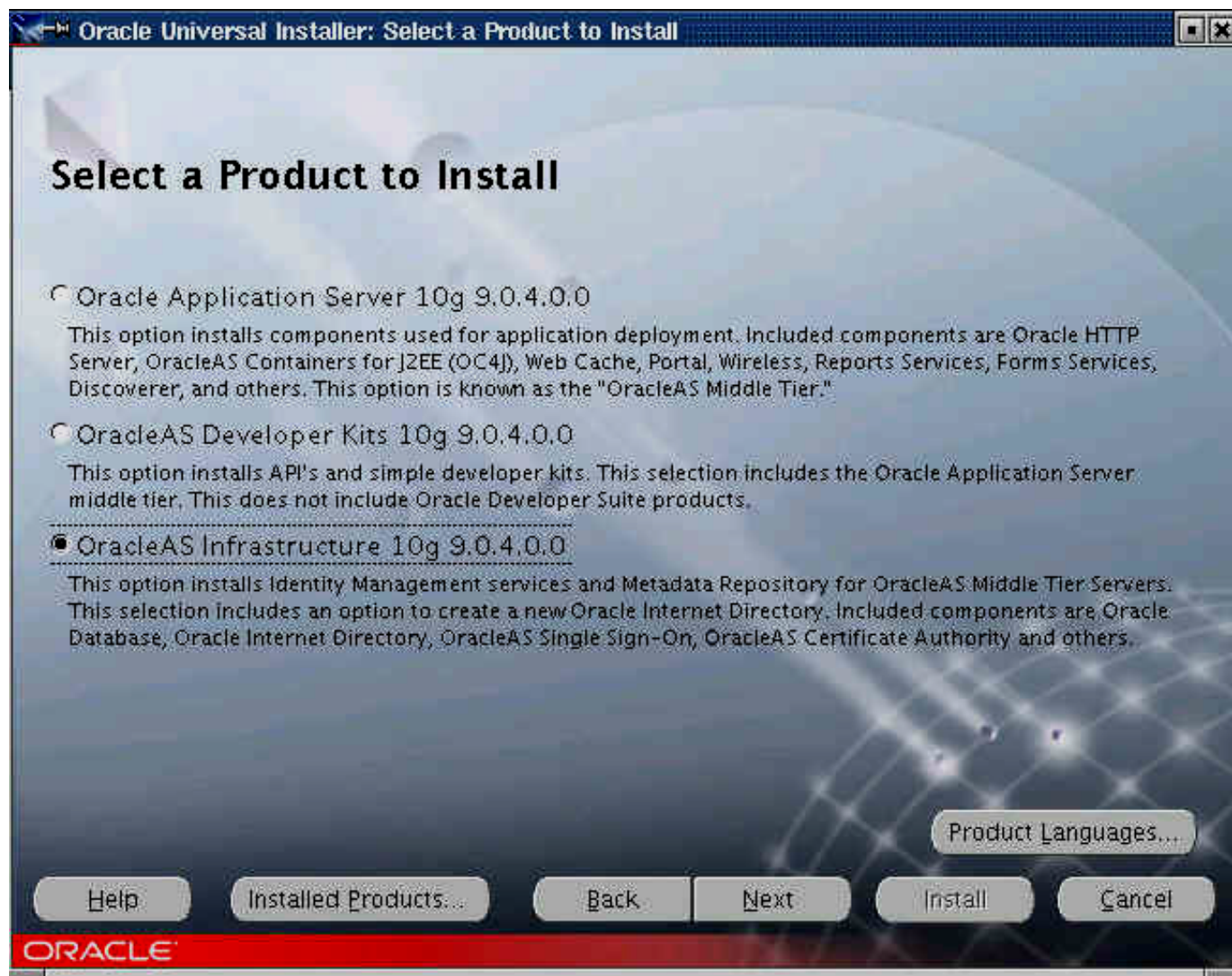
Specify File Locations

Source
Enter the full path of the file representing the product(s) you want to install:
Path:

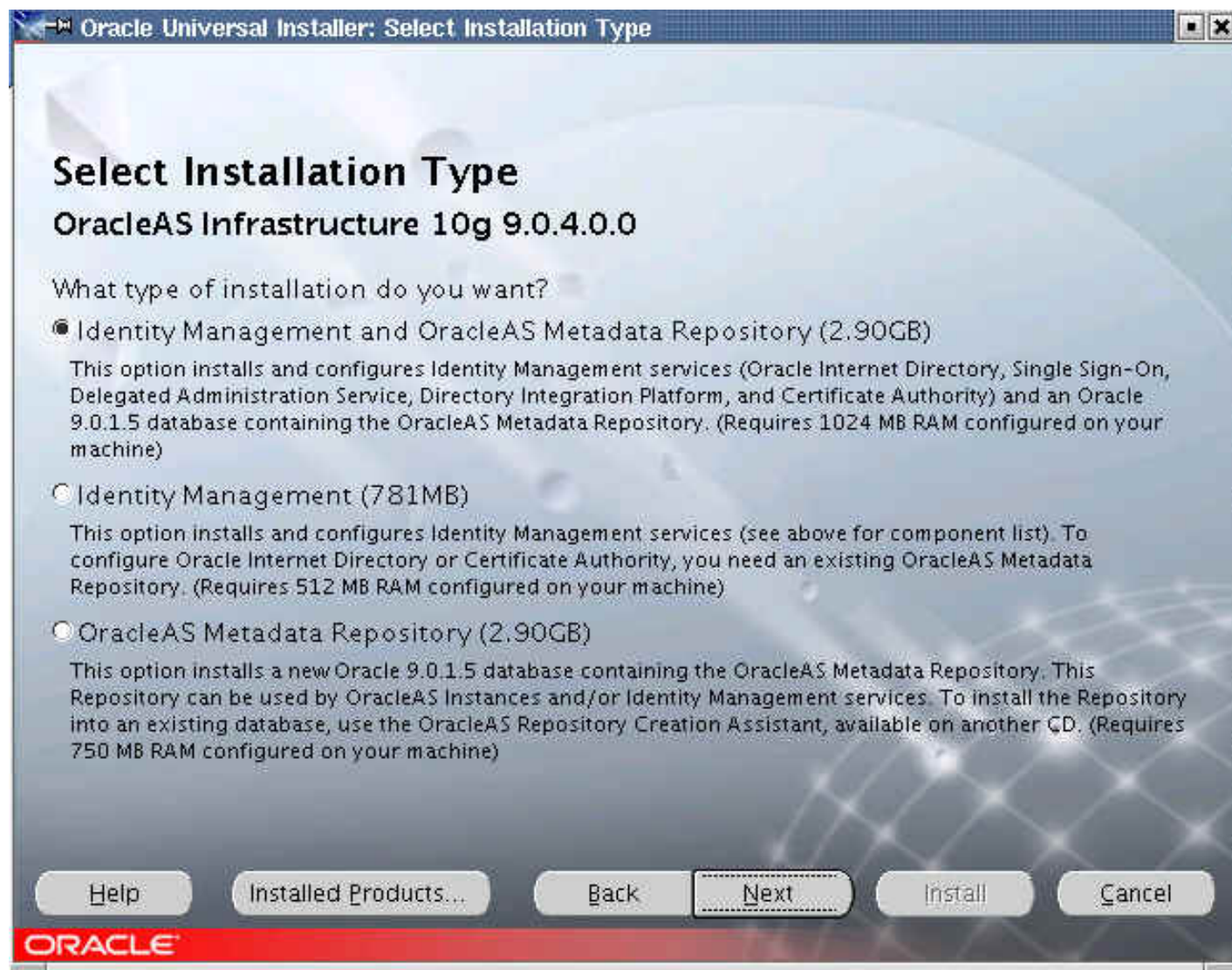
Destination
Enter or select an Oracle Home name and its full path:
Name:
Path:

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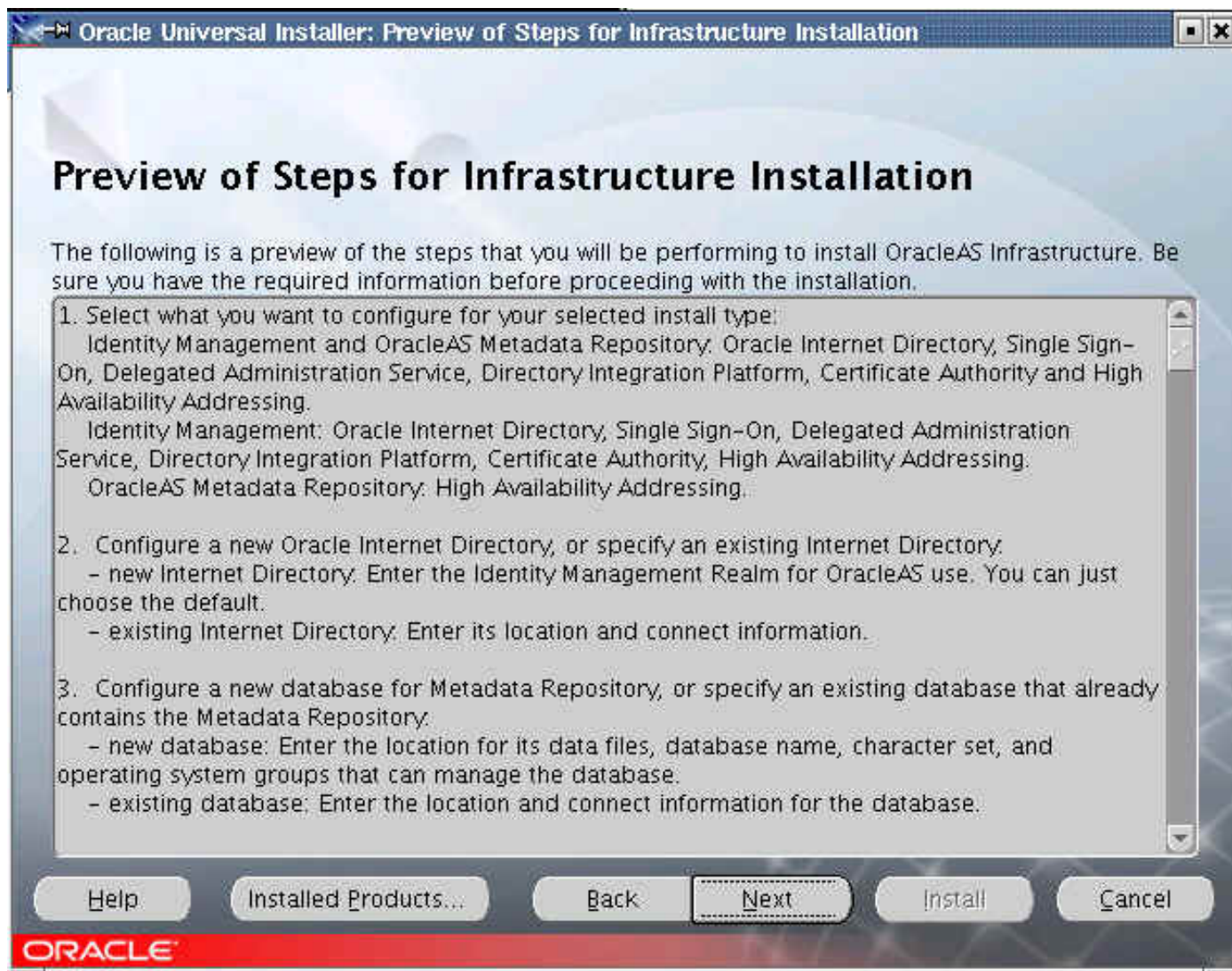
Выберите продукт для инсталляции



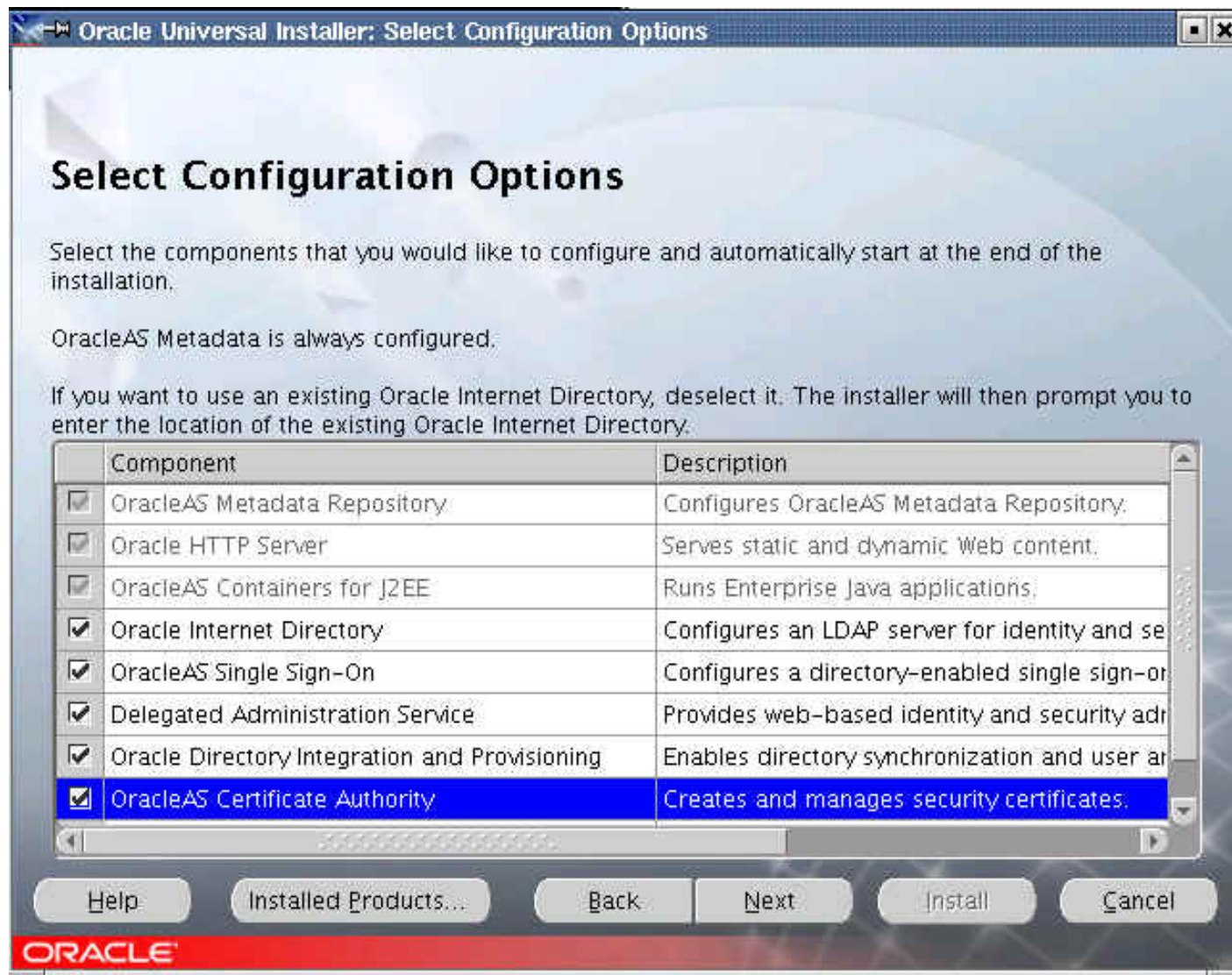
Выберите тип инсталляции



Окно описания шагов инсталляции



“Select Configuration Options”



“Specify Identity Management Realm”

The screenshot shows a window titled "Oracle Universal Installer: Specify Identity Management Realm". The window has a blue header bar with the Oracle logo and title. The main area has a light blue background with a globe graphic. The title "Specify Identity Management Realm" is in bold. Below it, a paragraph explains that the user should specify the root location of their Identity Management Realm in Oracle Internet Directory, which is an area for administering user identities and groups. There are two radio button options: "Default Location" (selected) and "Custom Location". The "Default Location" option has a text field containing "dc=us,dc=oracle,dc=com". The "Custom Location" option has a text field with an example "dc=acme,dc=com" below it. At the bottom, there are several buttons: "Help", "Installed Products...", "Back", "Next" (highlighted with a mouse cursor), "Install", and "Cancel". The Oracle logo is in the bottom left corner.

Specify Identity Management Realm

Specify the root location of your Identity Management Realm in Oracle Internet Directory. The Identity Management Realm is an area in Oracle Internet Directory where you administer user identities and groups. Oracle products look for users and groups in this area.

☒ Default Location

☐ Custom Location

Example: dc=acme,dc=com

Help Installed Products... Back **Next** Install Cancel

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“OracleAS Certificate Authority”

Oracle Universal Installer: Specify OCA Distinguished Name

Specify OCA Distinguished Name

To issue digital certificates OracleAS Certificate Authority must have a unique identifier in the form of a Distinguished Name(DN) based on the X.500 standard.

Enter the DN you want OracleAS Certificate Authority to use. You can enter a typical set of DN components, or you can specify a custom DN.

☒ Typical DN:

Common Name (CN):

Organizational Unit (OU):

Organization (O)*:

Country (C):

☐ Custom DN:

Example DN: CN=Acme Certificate Authority,OU=American Division,O=Acme Corporation,

Help Installed Products... Back Next Install Cancel

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“Database Identification”

Oracle Universal Installer: Database Identification

Database Identification

An Oracle9i database is uniquely identified by a Global Database Name, typically of the form "name.domain". Enter the Global Database Name for this database.

Global Database Name:

A database is referenced by at least one Oracle9i instance which is uniquely identified from any other instance on this computer by an Oracle System Identifier (SID). A suggested SID has been entered which you can accept or change to a value you prefer.

SID:

[Help](#) [Installed Products...](#) [Back](#) [Next](#) [Install](#) [Cancel](#)

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“Passwords and Database File Location”

Set SYS and SYSTEM Passwords

Enter SYS password.

SYS password:

Confirm password:

Enter SYSTEM password.

SYSTEM password:

Confirm password:

Database File Location

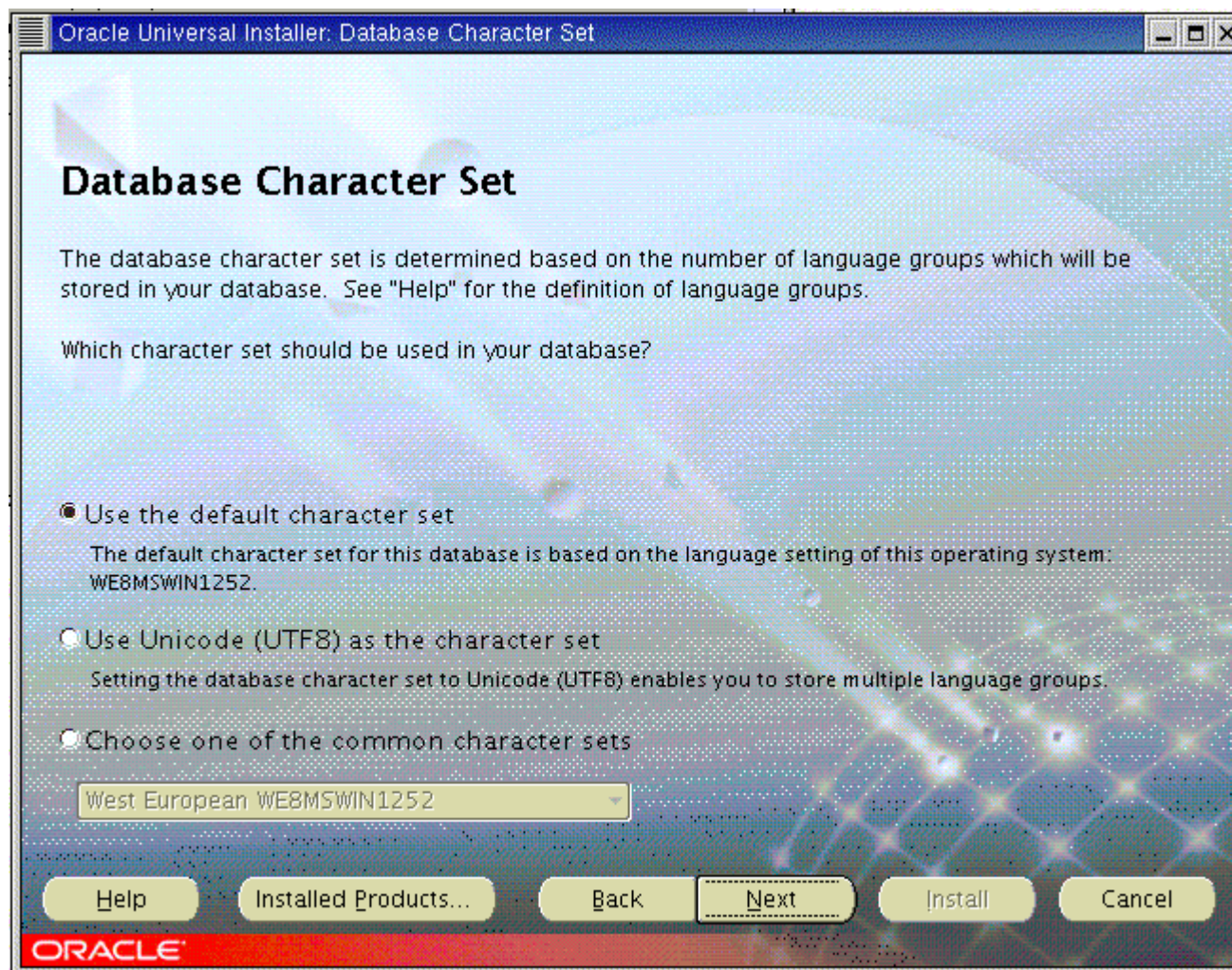
For best database organization and performance, Oracle recommends installing database files and Oracle software on separate disks. The database software should be installed in Oracle Home on one disk, and the database content including datafiles, control files, and redo logs should reside on a different disk.

Directory for Database Files:

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Help Installed Products... Back **Next** Install Cancel

“Database Character Set”



“Specify Instance Details”

Specify Instance Name and ias_admin Password

All OracleAS instances installed on a host must have unique names. The hostname and domain name of the host are appended to the instance name.

Each OracleAS instance has its own password, regardless of which user performed the installation. Passwords are not shared across instances, even if the instances were installed by the same user.

By default, the password must have a minimum of 5 alphanumeric characters, and at least one of the characters must be a number.

Administrator Username: ias_admin

Instance Name:

ias_admin Password:

Confirm Password:

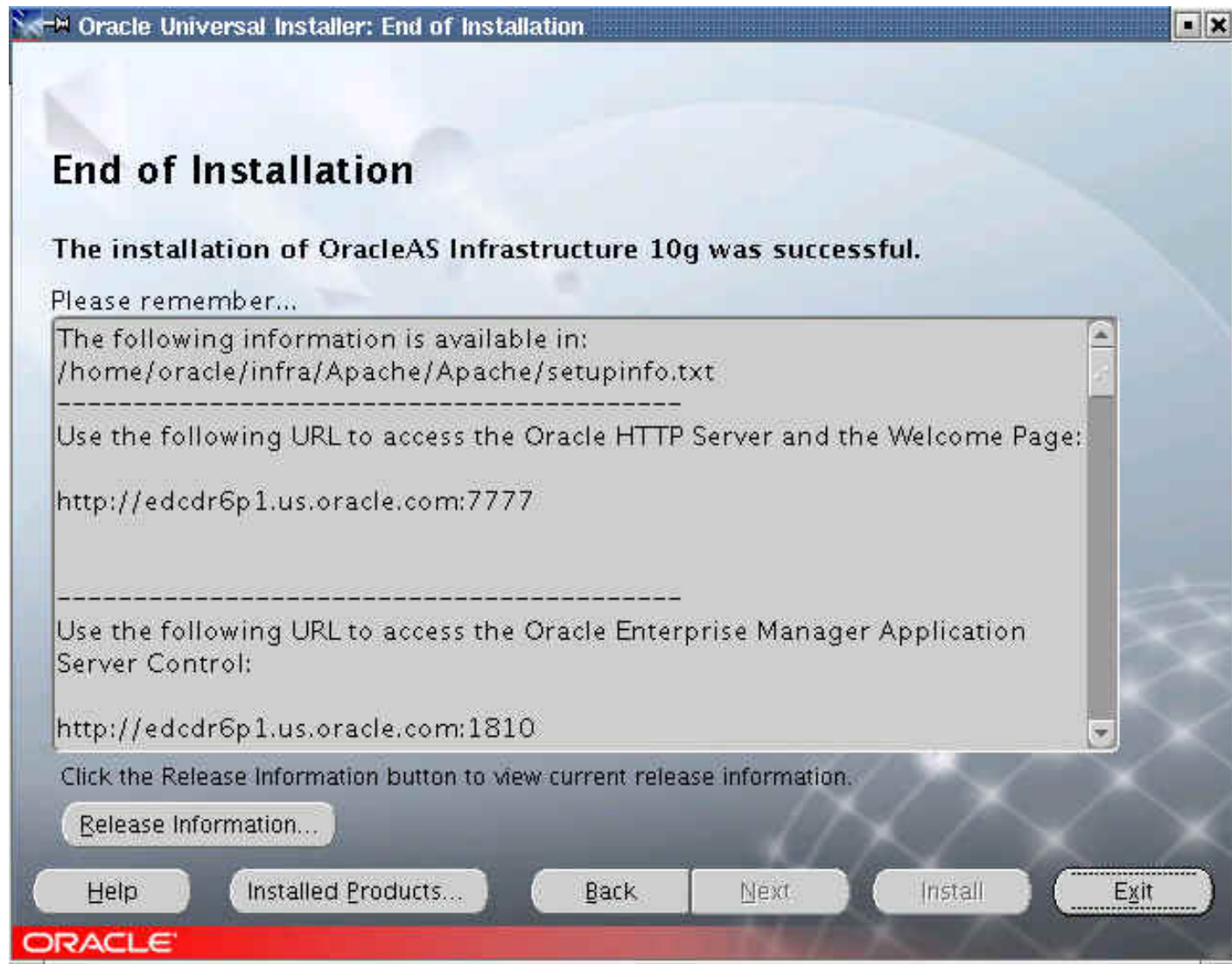
[Help](#) [Installed Products...](#) [Back](#) [Next](#) [Install](#) [Cancel](#)

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“Summary of Installation”



“End of Installation” Окно



Постинсталляционные задачи

- Установка переменных окружения `ORACLE_HOME` и `ORACLE_SID`.
- Добавление `$ORACLE_HOME/bin` в Ваш `$PATH`.
- Проверка статуса:
 - Infrastructure database и listener
 - OracleAS Infrastructure инстанс и компоненты
 - Application Server Control
- Проверьте и сохраните таблицу мапирования портов для Вашей инсталляции.
- Напишите скрипты запуска и останова инфраструктуры. При желании добавьте их в rc.

Доступ к инстансу OracleAS



The screenshot shows a Mozilla browser window with the title "Oracle Application Server - Welcome - Mozilla {Build ID: 2002110510}". The address bar contains the URL "http://edcdr6p1.us.oracle.com:7777/". The page content includes a header with "Oracle Application Server" and navigation tabs for "Welcome", "Demonstrations", and "New Features". The main content area has a "Welcome to Oracle Application Server" section, an "Overview" section with a description of Oracle Application Server 10g, and a "Documentation" section. On the right side, there are three yellow boxes: "Release Notes", "Oracle Enterprise Manager Application Server Control" (highlighted with a red border), and "New Features".

Oracle Application Server - Welcome - Mozilla {Build ID: 2002110510}

File Edit View Go Bookmarks Tools Window Help

http://edcdr6p1.us.oracle.com:7777/

Oracle Application Server

Welcome Demonstrations New Features

Welcome to Oracle Application Server

Overview

Oracle Application Server 10g is an integrated, standards-based software platform that allows organizations of all sizes to be more responsive to changing business requirements.

It provides all the middleware services you need to deploy and manage applications and Web services, deliver personalized applications through enterprise portals and mobile devices, provide real-time business intelligence, integrate applications, and automate business processes. It is optimized to take full advantage of cluster computing and enterprise grid deployment architectures.

Documentation

The Oracle Application Server documentation set consists of the documentation library.

Release Notes

Read the latest Release Notes on Oracle Technology Network for important information about Oracle Application Server 10g.

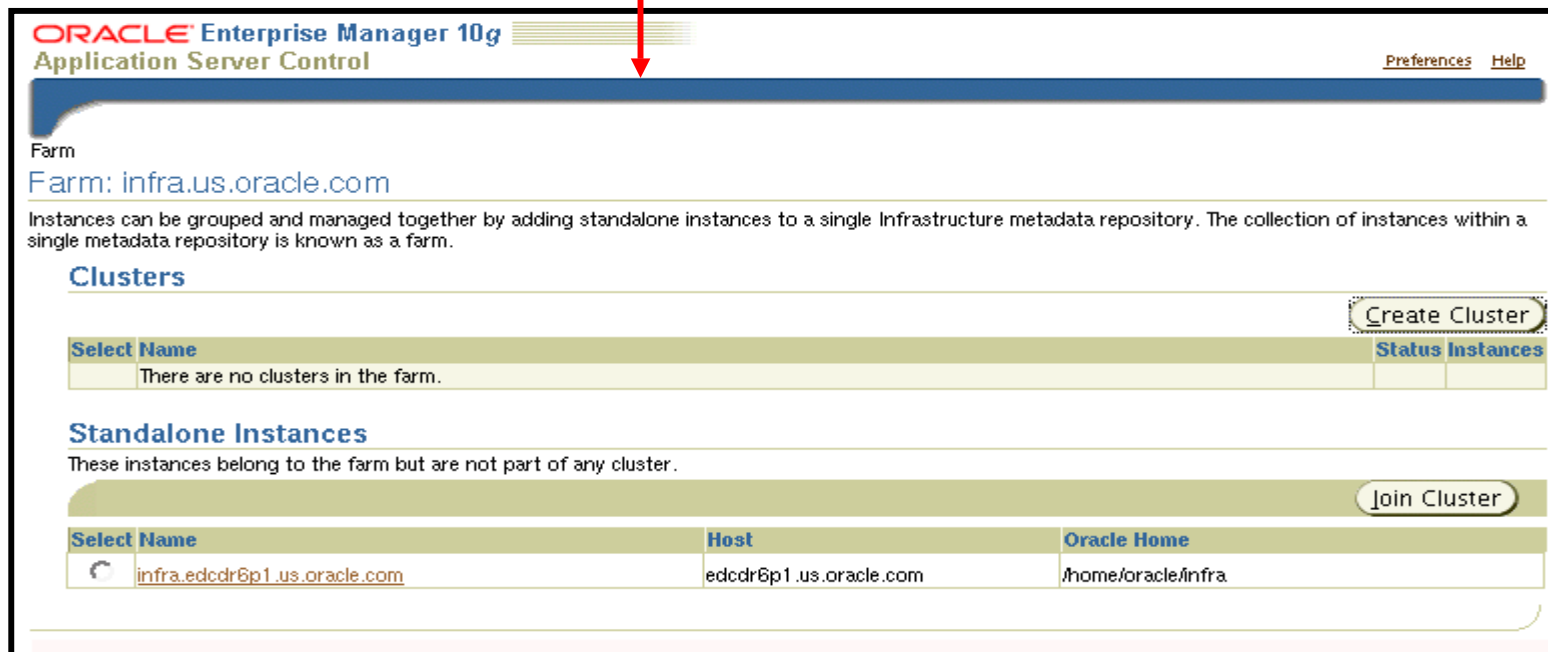
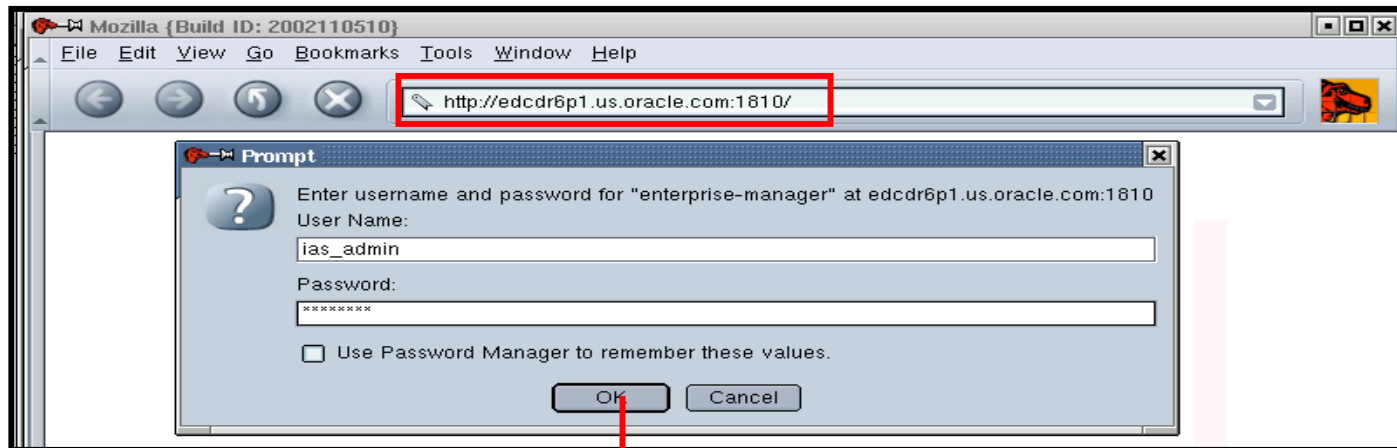
Oracle Enterprise Manager Application Server Control

Log on to Oracle Enterprise Manager Application Server Control to manage and monitor Oracle Application Server.

New Features

- J2EE, Web Services and Internet Applications
- Portal
- Wireless
- Caching
- Business Intelligence
- E-Business Integration

Доступ к Application Server Control



Проверка функционирования OID Server

ORACLE Enterprise Manager 10g
Application Server Control

Logs Preferences Help

Farm > Application Server: infra.edcdr6p1.us.oracle.com > OID

Oracle Internet Directory

Page Refreshed Nov 12, 2003 11:40:12 AM

General



Status **Up**
Version **9.0.4.0.0**
Repository **edcdr6p1.us.oracle.com:1521:infra**
CPU Usage (%) **0**
Memory Usage (MB) **7.73**

Stop Restart

Status

[Security Alerts](#)
[LDAP Metrics](#)
[Directory Integration](#)
[Directory Replication](#)

Directory Server Instances

Start New Instance

Restart Stop View Load View Operations

Select	Instance Number	Host Name	Port Number	Start Time	Downtime Count	Configuration Set Number	Status
	1	EDCDR6P1	3060	12 NOV 2003 10:34:22	0	0	

Related Links

[Oracle Internet Directory Self Service Console](#)
[Deployment Delegation Console](#)

Доступ к SSO серверу

[Logout](#)

SSO Server Administration

Configure partner and external applications for authentication through the SSO Server, and edit the SSO Server configuration.

Access Partner Applications

The following partner applications have delegated authentication to the SSO Server. Click on one of the links to access the corresponding application.

Partner Application Name	Administrator
The SSO Server (orasso)	
infra.edcdr6p1.us.oracle.com	cn=orcladmin
oca.edcdr6p1.us.oracle.com	

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Запуск и останов OracleAS Infrastructure

- Для запуска OracleAS Infrastructure стартуйте **компоненты в следующем порядке:**

1. Старт database listener (%lsnrctl start)
2. Старт metadata repository database
(%sqlplus /nolog)
3. Старт процессов OracleAS Infrastructure
(%opmnctl startall)
4. Старт Application Server Control
(%emctl start iasconsole)

- Для останова OracleAS Infrastructure **останавливайте компоненты в следующем порядке:**

1. Останов Application Server Control (%lsnrctl stop)
2. Останов процессов OracleAS Infrastructure.
(%opmnctl stopall)
3. Останов metadata repository database.
(%sqlplus /nolog....)
4. Останов database listener.
(%lsnrctl stop)

Заключение

В этом уроке вы научились:

- **Определять требования к установке инфраструктуры сервера приложений (OracleAS Infrastructure)**
- **Описывать типы установок OracleAS Infrastructure**
- **Устанавливать OracleAS Infrastructure**
- **Осуществлять процедуры запуска и остановки OracleAS Infrastructure**

Информация для контактов по техническим вопросам:

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