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*The opinions expressed in this presentation are my own and do not necessarily reflect those of Oracle. It is recommended to check the manual and consult ORACLE SUPPORT for any problems encountered. This presentation is for references purposes only.*

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**Silent Install & Opatch Utility on z/OS**

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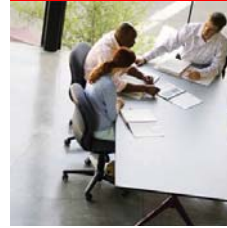
## Scope



- **Silent Install**
  - What is Silent Install
  - Why use Silent install
  - Response File
  - Response File variable that are specific on z/OS
  - Demo
- **Opatch Utility**
  - What is Opatch Utility?
  - Requirements to run Opatch
  - How to run Opatch on z/OS

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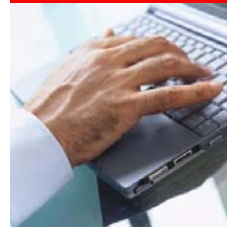
## Silent Installation on z/OS



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## Introduction

- Oracle Universal Installer was introduced in 10g to conform with the generic approach in installing Oracle product.
- There are two ways to install the oracle product:
  - With Graphical User Interface (GUI) which needs a third party x-window application
  - Silent Install which is a command interface installation with the use of a response file



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## What is Silent Install?

- A silent installation runs in the console and does not use the GUI.
- Draw back is interactive dialog that are in GUI are not present or can be seen with the silent install
- It installs the product using a predefined set of options stored in a response file or passed on the command line.
- Progress can be seen in the console
- Other requirements is the same as GUI



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## When to Perform a Silent Install

- If you do not have x-window client
- If you are going to install multiple oracle on different LPARS
- If you want to track installation options that were used the last time the oracle was installed on the system. – this can be checked in the 'response file'

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## How to run Silent Install

The command:

```
$> ./runInstaller -responseFile <filename> <optional  
parameters>
```

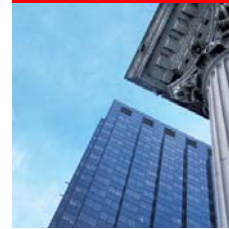
Where

filename – the actual response file. If not in the same directory, specify the whole path directory

optional parameters – these are optional parameters that can be used with the response file. One example is *-nowelcome* which suppresses the welcome dialog box.

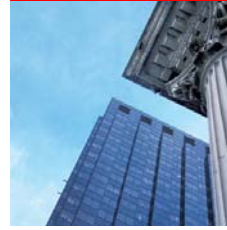
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**Demo**



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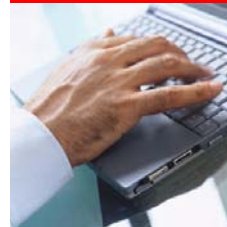
## OPATH Utility on z/OS



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## OPATCH Utility

- OPATCH UTILITY is a tool that allows the application and rollback of *interim* patches to Oracle products.
- It is a supplied utility to assist with the process of applying interim patches to Oracle software.
- It is a Java-based utility which requires the Oracle Universal Installer (OUI) to be installed.
- It is platform independent and runs on all supported operating systems



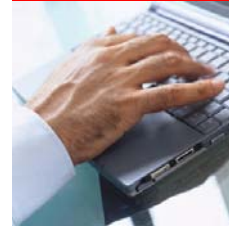
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## OPATCH Utility

The following can be done with OPATCH:

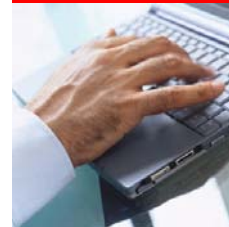
- Apply interim patch
- Rolling back the application of the interim patch
- Detecting conflict when applying an interim patch after previous interim patches have been applied.
- It suggests the best option to resolve a conflict
- Reports on installed products and interim patch



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## Why Opatch on z/OS

- Just like OUI, Oracle's aim is to have a uniform way to install the patches with it's products
- It's the only tool that we can use to apply interim patches on z/OS (and other platforms) starting Oracle10g



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## How to run Opatch?

NEED to meet the following requirements:

- Make sure the ORACLE\_HOME is properly set (environment variable)
- Make sure JDK 1.4.x
  - Problem was seen with JDK 1.5.x, it not advise to use at this time.
- Make sure there is enough system space to accommodate the scripts and new files that will be generated while running opatch
- Make sure the inventory location is correct (/var/opt/oracle/orainst.loc)



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## How to run Opatch?

*<Path\_to\_Opatch>/opatch <option>  
[command\_line\_arguments]*

Where

*Path\_to\_Opatch* – the \$ORACLE\_HOME/patch#

*option* – can be any of the following:

- *apply*
- *lsinventory*
- *query*
- *rollback*
- *Version*

*command\_line\_arguments* – these are extra actions, full list is found in the manual referenced at the end of this presentation



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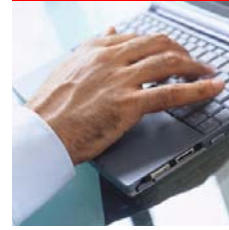
## Where to Get OPATCH

It can be downloaded from Metalink:

[Patch 2617419](#)

Note: This is a GENERIC place holder for **OPATCH**, so in order to conform this generic version, use the command below to unzip it: `unzip -a [filename.zip]`

If unsure whether you have unzip utility, oracle ship it and can be found in: `$ORACLE_HOME/bin/unzip`



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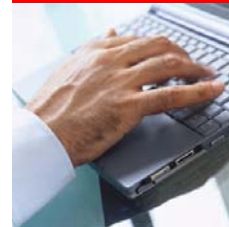
## REFERENCES

Reference Manual:

Oracle Universal Installer and Opatch User's Guide 10g Release 2 (10.2) for Windows and UNIX - Part Number B15227-04

Useful Notes:

[Note.313085.1](#) Interim Patch Installation with OPATCH on USS



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