Oracle E-Business Suite
Install and Cloning Best Practices

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Program Agenda

- Installing E-Business Suite
- Cloning Techniques
- Best Practices
Installing
E-Business Suite
Oracle E-Business Suite R12.1.1
Architecture
Installing E-Business Suite R12.1.1

Rapid Install

- E-Business Suite Installation Tool
  - Install a New System
  - Upgrade an Existing System
  - Install Latest Technology Stack
Rapid Install
Install a New System

- Standard Install
- Express Install
Rapid Install
Upgrade an Existing System

- Create Upgrade File System
- Configure Upgraded Release 12.1.1 Instance
Rapid Install
Upgrade Considerations

- 11gR1 Database
- Autoconfig Enabled on Database Tier and Applications Tier
- Consistent Net Services Topology Data Model
Rapid Install
Install Latest Technology Stack

- Database Technology Stack (11.1.0.7 RDBMS)
- Applications Technology Stack (10.1.2.3 AS + 10.1.3.4 AS)
Cloning Techniques
Cloning Techniques

- Cloning is the process used to create a copy of an existing E-Business Suite System
Cloning Techniques

- Command Line Process
- Requires User Interaction
- Note 406982.1 (Standard Clone)
- Note 559518.1 (RAC)

- Automated Process
- Provides Data Scrambling
- Allows Image Creation
- Leveraging EM Grid Control
Cloning Techniques

Rapid Clone

- Prepare Source System
- Copy Bits
- Configure Target System

Rapid Clone
Cloning Techniques
Prepare Source System

1. Database Tier

- RDBMS
- ORACLE_HOME
- clone

- adpreclone.pl dbTier

- Obtains Database Information
- Creates OH/appsutil/clone directory
- Creates adcrdbclone.sql
Cloning Techniques
Prepare Source System

2 Applications Tier

adpreclone.pl appsTier

Creates $COMMON_TOP/clone directory
Cloning Techniques

Copy Bits
Cloning Techniques
Configure Target System

Database Tier

RDBMS
ORACLE_HOME
clone

adcfgclone.pl dbTier

Create Context File
Register Oracle Home
Relink Oracle Home
Configure Oracle Home
Recreate Control File
Configure Database
Start SQL*Net Listener
Cloning Techniques
Configure Target System

2  Applications Tier

Allocate Space
Clone

APPL_TOP
TOOLS ORACLE_HOME
INST_TOP
WEB ORACLE_HOME
COMMON_TOP
clone

adcfgclone.pl appsTier

Create Context File
Register Oracle Homes
Relink Oracle Homes
Configure Oracle Homes
Create INST_TOP
Configure APPL_TOP
Start Apps Processes
Cloning Techniques
Other Configuration Commands

1. Database Tier

- `adcfgclone.pl dbTechStack`
- `adcfgclone.pl dbconfig`
- `adcfgclone.pl database`

**RDBMS ORACLE_HOME**

**Clone**

- Create Context File
- Register Oracle Home
- Relink Oracle Home
- Configure Oracle Home
- Start SQL*Net Listener
- Recreate Control File
- Configure Database
- Start SQL*Net Listener
Cloning Techniques
Other Configuration Commands

2 Applications Tier

* Create Context File
* Register Oracle Homes
* Relink Oracle Homes
* Configure Oracle Homes
* Create INST_TOP
* Start SQL*Net Listener

* Configure APPL_TOP
* Create INST_TOP
* Start SQL*Net Listener

`adcfgclone.pl atTechStack`
Cloning Techniques
Other Configuration Commands

1. Database Tier
2. Applications Tier

adclonectx.pl

- Clone Context File
- Allows Automation
Cloning Techniques
Application Management Pack (AMP) Clone

Application Management Pack

- Source-to-Target
- Source-to-Image
- Image-to-Target
- Hot Cloning
- RAC Cloning
- Data Scrambling
Cloning Techniques
Source-Image-Target

Source System

Image

AMP

Target System
Cloning Techniques
Image-To-Target

Dev System

Test System

Image

Pre-Production System

AMP
Cloning Techniques
Hot Cloning

Source System
Live Database
RMAN
Hot Backup
dbTeckStack
appsTier
Image
AMP
Target System
Cloning Techniques
RAC Cloning

Source System

RMAN
Hot Backup

dbTier
Primary Node

appsTiers

Image

Target System

AMP
Cloning Techniques
Data Scrambling

Source System

Scramble Data
Repackage Database

Image

AMP

Target System
Cloning Techniques

Custom Cloning
Cloning Techniques
Source-to-Target Refreshing

- Source-Target direct Synchronization
- Ideal for refreshing environments
- Rsync use for faster copy

Source System
- Database
- dbTechStack
- appsTechStack
- APPL_TOP
- COMMON_TOP

Copy Portion

Target System
- Database
- dbTechStack
- appsTechStack
- APPL_TOP
- COMMON_TOP

Data Scrambling
Rapid Clone Configuration
Cloning Techniques
Standby System

- Maximum Availability Techniques

[Diagram showing source system and standby system with rsync and redo log apply processes]
Cloning Techniques
Oracle Virtual Machine Cloning

- **OracleVM Cloning**
  - Functional VM Templates (i.e. ERP VM)
  - Technical VM Templates (i.e. 11i/11g+RUP6 Template)
Best Practices
Installation Best Practices

Documentation – startCD

• Documentation
  – Oracle Applications Installation Guide
  – Oracle Applications Release Notes
  – R12 Installation and Upgrade Notes
  – 11g Installation Guide

• startCD Version
  – startCD Continuously Updated
  – Latest startCD Information published in the Release Notes
Installation Best Practices
Media vs. Stage

• Media
  – Slow
  – Extensive User Intervention
  – Does not Require Disk Space
  – Might Require Special Privileges to Mount/Umount DVDs
  – For the Current Machine only

• Stage
  – Fast
  – Minimum User Intervention
  – Requires 30 Gb
  – Created with adautostg.pl
  – Does not Require Special Privileges
  – Same Stage can be Mounted on Several Machines
Installation Best Practices
Remote Installations

• Different Methods
  – Virtual Network Computing (VNC)
  – Third Party X Display Servers

• Considerations
  – Must be Able to Render OUI Fonts
  – JDK 1.6 Compliant
  – Must Support the Network Traffic Required by the OUI
  – DISPLAY Configuration
Installation Best Practices
Operating System Requirements

• Fully Qualified Host
  – Static IP Address
  – Hostname.domain included on /etc/hosts
    • <IP> hostname.domain hostname

• Default File Permissions
  – Rapid Wizard should be able to create Files and Directories with Correct User/Group Permissions
  – File Creation Mask (i.e.: umask 022)
Installation Best Practices
Operating System Requirements

• Resource Limits
  – Set ulimit Parameters to Maximum Allowable Value
  – Maxproc: Number of Processes Per User
  – Openfiles: Number of Open Files per Process
  – Datasize: Amount of Memory Available to each Process

• Kernel Parameters
  – Requirements posted on E-Business Suite Documentation
  – Shared Memory (SHMALL, SHMMAX, SHMMNI)
  – Semaphores (SEMMSL, SEMMNS, SEMOPM, SEMMNI)
  – File Handles (file-max)
Installation Best Practices
Operating System Requirements

• Temporary Directories
  – /tmp
  – /tmp/.oracle
  – /var/tmp/.oracle

• Swap Space
  – 1Gb or Twice the size of RAM

• Shutdown Running Processes

• If having problems Verify If 11g can be Installed
Technology Stack Registration
Technology Stack Registration

Applications Tier

Oracle Applications Database

Database Tier

oralinventory/ContentsXML/inventory.xml

Global Inventory
Technology Stack Registration

Global Inventory

oralinventory/ContentsXML/inventory.xml

Global Inventory

oralInst.loc

inventory_loc=/etc/oralInventory
Technology Stack Registration
Multiple Inventories

oralInst.loc
inventory_loc=/PROD/oralInventory
Installation Best Practices
Cleaning Environments

- Clean Global Inventory
- Clean Temporary Directories
- Delete Database Technology Stack
- Delete Applications Database
- Delete Applications Technology Stack
- Delete Application File System
For More Information

search.oracle.com

or

oracle.com
Related Documentation

- [Oracle Applications Installation Guide](#): Using Rapid Install Release 12.1.1
- [803214.1](#): Now Available: Oracle E-Business Suite R12.1.1
- [798258.1](#): Oracle Applications Release Notes Release 12.1.1
- [380482.1](#): R12 Technology Stack Documentation Roadmap
- [405565.1](#): Oracle Applications Release 12 Installation Guidelines
- [394692.1](#): Oracle Applications Release 12 Documentation Resources
- [406138.1](#): R12 Downloading Rapid Install Software with Oracle E-Delivery
- [406982.1](#): Cloning Oracle Applications Release 12 with Rapid Clone
- [559518.1](#): Cloning Oracle Applications Release 12 with Rapid Clone on RAC Systems
- [783188.1](#): Certified RAC Scenarios for E-Business Suite Cloning
- [760637.1](#): Manually Cloning Oracle Applications Release 11i with 10g
- [438086.1](#): Migrating to Linux with Oracle Applications Release 12
- [387859.1](#): Using AutoConfig to Manage System Configurations in R12
Appendix
Related Sessions: Ownership

Tuesday (13th October)

- Ten Things to Reduce the Total Cost of Ownership of Oracle E-Business Suite (S309540)
  Time: 14.30 – 15.30
  Venue: Moscone West L2 (RM 2008)
- Oracle Application Change Management Pack for Oracle E-Business Suite (S309527)
  Time: 16.00 – 17.00
  Venue: Moscone West L2 (RM 2008)

Wednesday (14th October, 2009)

- Oracle Application Management Pack for Oracle E-Business Suite: Customer Case Study (S309526)
  Time: 11.45 – 12.45
  Venue: Moscone West L2 (RM 2008)

Thursday (15th October 2009)

- Oracle E-Business Suite Install and Cloning Best Practices (S309545)
  Time: 12.00 – 13.00
Hands-On-Lab

Oracle Application Management Pack for Oracle E-Business Suite (S310493)
- Date: 12th October 2009 (Monday)
  Time: 13.00 – 14.00
- Date: 14th October 2009 (Wednesday)
  Time: 10.15 – 11.10

Oracle E-Business Suite Integrated SOA Gateway (S311615)
- Date: 12th October 2009 (Monday)
  Time: 16.00 – 17.00
- Date: 13th October 2009 (Tuesday)
  Time: 16.00 – 17.00

Oracle E-Business Suite integration with Secure Enterprise Search (S309543)
- Date: 14th October 2009 (Wednesday)
  Time: 11.45 – 12.45

ALL HOL Venue: Marriott Hotel Golden Gate A1
Demo Ground: Moscone South

SOA-Enablement of Oracle E-Business Suite

S44

Native Service Enablement
Integrated SOA Gateway
Oracle SOA Suite

Application Management Pack for Oracle E-Business Suite
Application Change Management Pack for Oracle E-Business Suite
Rapid Install & Rapid Clone

End-to-End Management of Oracle E-Business Suite

Oracle Applications Framework Improvements
Desktop Integration through Web ADI
Secure Enterprise Search

Enabling Web 2.0 and Enhanced User Experience

S45

S46
Oracle E-Business Suite R12.1.1
Architecture

E-Business Suite System

Database Tier
- RDBMS
  - ORACLE_HOME

Applications Tier
- APPL_TOP
- TOOLS
- ORACLE_HOME
- COMMON_TOP
- WEB
- ORACLE_HOME
Application Management Pack

Versions

- 2.0
- 2.0.1
- 2.0.2
- 3.0.0

- 10.2.0.3
- 10.2.0.4
Rapid Clone
Preclone dbTier

adpreclone.pl dbTier

adclone.pl

StageDBTier.java

StageDatabase.java
StageDBTechStack.java
Rapid Clone
Preclone appsTier

adpreclone.pl appsTier

adclone.pl

StageAppsTier.java

StageApplTop.java

StageAppsTechStack.java
Rapid Clone
Configclone dbTier

adcfgclone.pl dbTier

adclone.pl

ApplyDBTier.java

CloneContext.java

ApplyDatabase.java

ApplyDBTechStack.java
Rapid Clone
Configclone appsTier

adcfgclone.pl appsTier
- adclone.pl
  - ApplyAppsTier.java
  - ApplyAppITop.java
  - ApplyAppsTechStack.java

adclonectx.pl
- CloneContext.java
Provides enterprise-wide status of clone jobs
A Cloned Image is a snapshot of an Applications System. A Clone Operation can be performed on a Source Applications System to create a Cloned Image. A Cloned Image can be deployed to create a Target Applications System.

Deploy images on to a target system and Clone Source to Image
## AMP Clone

**Clone Dashboard: Procedure View**

Contains predefined procedures defined by Oracle

Provides ability to run a specific clone procedure

Provides ability to view a specific procedure and create copies

### Clone Oracle Applications

Cloning Procedures are best practices provided by Oracle for cloning Oracle Applications. Procedures created by Oracle cannot be edited, but can be copied using Create Like, so that you can customize the procedure to fit your environment. You can run a Cloning Procedure to start a Clone Operation.

<table>
<thead>
<tr>
<th>Select</th>
<th>Procedure</th>
<th>Type</th>
<th>Description</th>
<th>Created By</th>
<th>Version</th>
<th>Last Updated</th>
<th>Simple Wizard</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Test Register Image only</td>
<td>Clone Oracle Applications</td>
<td>Source to Image</td>
<td>SYSMAN</td>
<td>1.0</td>
<td>04:03:01 PM Aug 20 2006 PDT</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Clone Source to Image</td>
<td>Clone Oracle Applications</td>
<td>Source to Image</td>
<td>Oracle</td>
<td>1.0</td>
<td>06:52:07 PM Jul 30 2006 PDT</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Clone Source to Target</td>
<td>Clone Oracle Applications</td>
<td>Source to Target</td>
<td>Oracle</td>
<td>1.0</td>
<td>06:52:05 PM Jul 30 2006 PDT</td>
<td>[ ]</td>
</tr>
<tr>
<td></td>
<td>Deploy Image to Target</td>
<td>Clone Oracle Applications</td>
<td>Image to Target</td>
<td>Oracle</td>
<td>1.0</td>
<td>03:46:31 PM Jul 11 2006 PDT</td>
<td>[ ]</td>
</tr>
</tbody>
</table>
# AMP Clone

## Clone Procedures

<table>
<thead>
<tr>
<th>Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stop Application Nodes</td>
<td>Job</td>
<td>Stop Application Nodes</td>
</tr>
<tr>
<td>Stop Database</td>
<td>Parallel</td>
<td>Stop the Database and Listener on Database Nodes</td>
</tr>
<tr>
<td>Start Database</td>
<td>Parallel</td>
<td>Start Database</td>
</tr>
<tr>
<td>Start Application Nodes</td>
<td>Job</td>
<td>Start Application Nodes</td>
</tr>
<tr>
<td>Copy Stage to Shared Location</td>
<td>Job</td>
<td>Copy Staged Node contents to a specified shared filesystem location</td>
</tr>
<tr>
<td>Stop Applications</td>
<td>Parallel</td>
<td>Stop Applications Services on Application Nodes</td>
</tr>
<tr>
<td>Stage Applications</td>
<td>Parallel</td>
<td>Stage contents of each Application Nodes</td>
</tr>
<tr>
<td>Stage Applications Nodes</td>
<td>Job</td>
<td>Stage Applications Nodes</td>
</tr>
<tr>
<td>Copy Stage to Shared Location</td>
<td>Job</td>
<td>Copy Staged Node contents to a specified shared filesystem location</td>
</tr>
<tr>
<td>Start Database</td>
<td>Parallel</td>
<td>Start Database</td>
</tr>
<tr>
<td>Start Application Nodes</td>
<td>Job</td>
<td>Start Application Nodes</td>
</tr>
<tr>
<td>Transfer Staged Nodes</td>
<td>Parallel</td>
<td>Transfer contents of Staged Nodes</td>
</tr>
<tr>
<td>Transfer Stage</td>
<td>Job</td>
<td>Transfer Stage</td>
</tr>
<tr>
<td>Custom Transfer Staged Nodes</td>
<td>Parallel</td>
<td>Insert Custom Transfer steps in this Phase</td>
</tr>
<tr>
<td>Transfer Stage Manually</td>
<td>Manual</td>
<td>Transfer Stage Manually</td>
</tr>
<tr>
<td>Transfer Stage</td>
<td>Job</td>
<td>Transfer Stage</td>
</tr>
<tr>
<td>Clone Context</td>
<td>Rolling</td>
<td>Generate Target System Context Files</td>
</tr>
<tr>
<td>Generate Context Files for Target</td>
<td>Job</td>
<td>Generate Context Files for Target System Nodes</td>
</tr>
</tbody>
</table>
AMP Clone
Clone Procedures: Creating a Custom Procedure
AMP Clone
Data Scrambling

- Protecting Sensitive Data while cloning Production systems
- Business Drivers:
  - Application Testing
  - Data Sharing
- Key Capabilities
  - Supports scrambling both 11i and Release 12 systems
  - Scramble / Purge sensitive database
  - In-build validations of scrambling configuration
  - Scrambled Image or System (when used with cloning)
  - Notifications on failure
Technology Stack Registration

Components

- `oralInst.loc`
  - Under `/etc` on Linux and AIX
  - Under `/var/opt/oracle` on Solaris and HP-UX
  - Registry entry Inst_Loc on MS Windows
  - `Inventory_loc` points to Global Inventory Location

- **Global Inventory**
  - Registers each `ORACLE_HOME`
  - `oraInventory/ContentsXML/inventory.xml`
Technology Stack Registration
Components

- `oraInventory/ContentsXML/inventory.xml`

```xml
<?xml version="1.0" standalone="yes" ?>
<!-- Copyright (c) 2002 Oracle Corporation. All rights Reserved -->
<!-- Do not modify the contents of this file by hand. -->
<INVENTORY>
  <VERSION_INFO>
    <SAVED_WITH>10.1.0.5.0</SAVED_WITH>
    <MINIMUM_VER>2.1.0.6.0</MINIMUM_VER>
  </VERSION_INFO>
  <HOME_LIST>
    <HOME NAME="TEST_DB__u04_TEST_db_tech_st_10_2_0" LOC="/u04/TEST/db/tech_st/10.2.0" TYPE="O" IDX="1"/>
    <HOME NAME="TEST_WEBOH__u04_TEST_apps_tech_st_10_1_3" LOC="/u04/TEST/apps/tech_st/10.1.3" TYPE="O" IDX="2"/>
    <HOME NAME="TEST_TOOLS__u04_TEST_apps_tech_st_10_1_2" LOC="/u04/TEST/apps/tech_st/10.1.2" TYPE="O" IDX="3"/>
  </HOME_LIST>
</INVENTORY>
```
Technology Stack Registration
Global Inventory vs. Multiple Inventories

• Global Inventory
  – All the E-Business Suite Environments Share the same oraInventory
  – ORACLE_HOMEs must be unregistered with OUI
  – oraInst.loc remains the same

• Multiple Inventories
  – Each E-Business Suite Environment has its own oraInventory
  – Global Inventory can be deleted
  – oraInst.loc must be switched
Technology Stack Registration
Cleaning Inventory

• Global Inventory
  – Verify inventory_loc on oraInst.loc
  – Verify write permissions on oraInventory
  – Un-Install each ORACLE_HOME with its own OUI
  – Verify <HOME NAME> on oraInventory/ContentsXML/inventory.xml

• Multiple Inventories
  – Verify inventory_loc on oraInst.loc
  – Verify write permissions on oraInventory
  – Delete oraInventory
Technology Stack Registration
Registration Considerations

- Consider using Global or Multiple Inventories
- Verify that oraInst.loc exists
- Verify inventory_loc on oraInst.loc
- Point inventory_loc to a new oralInventory Location
- Verify write permissions on oralInventory
- Verify ORACLE_HOME duplications
- Verify Inventory Corruptions (I.e: opatch Isinventory)
# Installation Log Files

Rapid Install

<table>
<thead>
<tr>
<th>Log</th>
<th>Detail</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>/tmp/&lt;MMDDHHMM&gt;/&lt;MMDDHHMM&gt;.log</code></td>
<td>Runtime Rapid Install Log</td>
</tr>
</tbody>
</table>
## Installation Log Files
### Database Technology Stack

<table>
<thead>
<tr>
<th>Log</th>
<th>Detail</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>&lt;ORACLE_HOME&gt;/appsutil/log/$CONTEXT_NAME/&lt;MMDDHHMM&gt;.log</code></td>
<td>Main Database Tier</td>
</tr>
<tr>
<td><code>&lt;ORACLE_HOME&gt;/appsutil/log/$CONTEXT_NAME/dbInstall.log</code></td>
<td>10g Unzip &amp; Pre Configuration</td>
</tr>
<tr>
<td><code>&lt;ORACLE_HOME&gt;/appsutil/log/$CONTEXT_NAME/ohclone.log</code></td>
<td>10g Registration</td>
</tr>
<tr>
<td><code>&lt;ORACLE_HOME&gt;/appsutil/log/$CONTEXT_NAME/make_&lt;MMDDHHMM&gt;.log</code></td>
<td>10g Relink</td>
</tr>
<tr>
<td><code>&lt;ORACLE_HOME&gt;/appsutil/log/$CONTEXT_NAME/ApplyDBTechStack_&lt;MMDDHHMM&gt;.log</code></td>
<td>10g Configuration</td>
</tr>
</tbody>
</table>
## Installation Log Files
### Database

<table>
<thead>
<tr>
<th>Log</th>
<th>Detail</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>&lt;ORACLE_HOME&gt;/appsutil/log/$CONTEXT_NAME/&lt;MMDDHHMM&gt;.log</code></td>
<td>Main Database Tier</td>
</tr>
<tr>
<td><code>&lt;ORACLE_HOME&gt;/appsutil/log/$CONTEXT_NAME/installdbf.log</code></td>
<td>Database Unzip &amp; Pre-Configuration</td>
</tr>
<tr>
<td><code>&lt;ORACLE_HOME&gt;/appsutil/log/$CONTEXT_NAME/adcrdb_&lt;SID&gt;.log</code></td>
<td>Recreate Control File</td>
</tr>
<tr>
<td><code>&lt;ORACLE_HOME&gt;/appsutil/log/$CONTEXT_NAME/ApplyDatabase_&lt;MMDDHHMM&gt;.log</code></td>
<td>Database Configuration</td>
</tr>
<tr>
<td><code>&lt;ORACLE_HOME&gt;/appsutil/log/$CONTEXT_NAME/&lt;MMDDHHMM&gt;/adconfig.log</code></td>
<td>Autoconfig</td>
</tr>
<tr>
<td><code>&lt;ORACLE_HOME&gt;/appsutil/log/$CONTEXT_NAME/&lt;MMDDHHMM&gt;/NetServiceHandler.log</code></td>
<td>DB Net Configuration</td>
</tr>
</tbody>
</table>
## Installation Log Files

### Applications Technology Stack

<table>
<thead>
<tr>
<th>Log</th>
<th>Detail</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>&lt;INST_TOP&gt;/logs/&lt;MMDDHHMM&gt;.log</code></td>
<td>Main Applications Tier Log</td>
</tr>
<tr>
<td><code>&lt;APPL_TOP&gt;/admin/&lt;CONTEXT_NAME&gt;/log/ApplyAppsTechStack.log</code></td>
<td>10.1.2/10.1.3 Unzip &amp; Pre-Configuration</td>
</tr>
<tr>
<td><code>&lt;INST_TOP&gt;/admin/log/ohclone.log</code></td>
<td>10.1.2 / 10.1.3 Registration</td>
</tr>
<tr>
<td><code>&lt;INST_TOP&gt;/logs/ora/10.1.2/install/make_&lt;MMDDHHMM&gt;.log</code></td>
<td>10.1.2 Relink</td>
</tr>
<tr>
<td><code>&lt;INST_TOP&gt;/logs/ora/10.1.3/install/make_&lt;MMDDHHMM&gt;.log</code></td>
<td>10.1.3 Relink</td>
</tr>
<tr>
<td><code>&lt;INST_TOP&gt;/admin/log/ApplyAppsTechStack.log</code></td>
<td>Technology Stack Configuration</td>
</tr>
</tbody>
</table>
# Installation Log Files

## Applications File System

<table>
<thead>
<tr>
<th>Log</th>
<th>Detail</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>&lt;INST_TOP&gt;/logs/&lt;MMDDHHMM&gt;.log</code></td>
<td>Main Applications Tier Log</td>
</tr>
<tr>
<td><code>&lt;APPL_TOP&gt;/admin/$CONTEXT_NAME/log/installAppl.log</code></td>
<td>APPL_TOP Unzip &amp; Pre-Configuration</td>
</tr>
<tr>
<td><code>&lt;APPL_TOP&gt;/admin/$CONTEXT_NAME/log/ApplyAppltop_&lt;MMDDHHMM&gt;.log</code></td>
<td>APPL_TOP Configuration</td>
</tr>
<tr>
<td><code>&lt;APPL_TOP&gt;/admin/$CONTEXT_NAME/log/&lt;MMDDHHMM&gt;/adconfig.log</code></td>
<td>Autoconfig Log</td>
</tr>
<tr>
<td><code>&lt;APPL_TOP&gt;/admin/$CONTEXT_NAME/log/&lt;MMDDHHMM&gt;/NetServiceHandler.log</code></td>
<td>Apps Net Configuration</td>
</tr>
</tbody>
</table>
## Installation Log Files

### Technology Stack Registration

<table>
<thead>
<tr>
<th>Log</th>
<th>Detail</th>
</tr>
</thead>
<tbody>
<tr>
<td>oraInventory/logs/cloneActions&lt;MMDDHHMM&gt;.log</td>
<td>ORACLE_HOME Clone</td>
</tr>
<tr>
<td>oraInventory/logs/oraInstall&lt;MMDDHHMM&gt;.log</td>
<td>runInstaller</td>
</tr>
<tr>
<td>oraInventory/logs/silentInstall&lt;MMDDHHMM&gt;.log</td>
<td>runInstaller Silent Run</td>
</tr>
</tbody>
</table>
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