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| **AZ_RGB_H_COL.PNG**  **Global Installation Instruction** | **OSWatcher Installation guide** | Document Number: 0001 |
| **AZ-DOC-0001** |

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# **Purpose and Scope**

The purpose of this document is to describe step by step instructions that must be followed to consistently perform the installation and configuration of OSWatcher in UNIX servers. This document also describes the tests that must be performed in order to verify that the Infrastructure Component has been installed and configured correctly. These verification tests constitute the Infrastructure Component Installation and Operation Qualification.

# **References**

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| **Document Number** | **Document Title** |
| AZ-Regional-0001 | Regional Component Qualification |
| Oracle Doc: 0001 | OSWatcher Installation guide in LINUX. |
| Oracle/AZ Joint Solutions Centre cookbook | Quick Installation Guide  OSWatcher Installation guide in LINUX. |

# **Definitions**

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| Term | Definition |
| Installation Instruction (II) | Approved and controlled documents that describe how an Infrastructure Component is installed (currently referred to as Cookbooks, Installation Checklists, and Work Instructions). The installation instructions also define the verification tests that are required to confirm that the installation has occurred successfully and that the Infrastructure Component functions as anticipated. |
| Regional Component Qualification Templates | Required information in a template format that are managed by the Infrastructure Standards group and are available in the SharePoint under the Templates category. |
| Role | Roles and responsibilities identified in this document are defined in general terms (objectives), which should not be interpreted as all inclusive (tasks), and are meant as logical groupings of tasks. Several roles might be performed by the same individual or multiple individuals. A role may be split among several individuals. |
| Template | Fixed layout document with blanks for the insertion of information into required fields. Fields cannot be added or deleted, but existing fields/tables can be expanded. |
| AZ SharePoint | AZ SharePoint – A document management system to manage, store and provide access to compliance-related procedure and project documents for AZ staff on the AstraZeneca Account. |
| <> | Used in syntax and command examples to show generic text; these should be replaced by user supplied values e.g. /u001/app/oracle/ or /tmp location |
| Node | A server in a cluster |

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# **Instructions Roles Overview**

Roles and responsibilities identified in this document are defined in general terms (objectives), which should not be interpreted as all inclusive (tasks), and are meant as logical groupings of tasks. Several roles might be performed by the same individual or multiple individuals. A role may be split among several individuals.

The following roles are identified within this document:

## 4.1 Oracle DBA Overall responsibilities for developing Installation Instructions and Regional Component Qualification records.

**5. Instructions**This section lists the basic steps executed to install and configure the Infrastructure component. The installation procedure is divided into the following parts to allow the checks and configurations to be performed incrementally with each step building upon the previous.

## 5.1 Pre-requisites To setup OSWatcher Installation guide on RAC servers to capture the logs in order diagnostic the issues and help us find the root cause of issues if we have any P1/P2 incidents.

## Refer the Doc Id Note – 301137.1

## 5.2 About OSWatcher Black box Oracle OSWatcher Black Box (OSWbb) collects and archives operating system and network metrics that you can use to diagnose performance issues. OSWbb operates as a set of background processes on the server and gathers data on a regular basis, invoking such Unix utilities as vmstat, netstat, iostat, and top.

From release v4.0.0, you can use the OSWbba analyzer to provide information on system slowdowns, system hangs and other performance problems, and also to graph data collected from iostat, netstat, and vmstat. OSWbba requires that you have installed Java version 1.4.2 or higher on your system. You can use yum to install Java, or you can download a Java RPM for Linux from [http://www.java.com](http://www.java.com/).

## OSWbb is particularly useful for Oracle RAC (Real Application Clusters) and Oracle Grid Infrastructure configurations. The RAC-DDT (Diagnostic Data Tool) script file includes OSWbb, but does not install it by default.

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# **6. Installing the OSwbb**

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| Oracle / UNX Team | * 1. Log on to My Oracle Support (MOS) at <http://support.oracle.com>   2. Download the file oswbb601.tar, which is available at below linkClick here to   download OSWatcher for Solaris, Linux and HP-UX. (AIX users see link   below)   3. Copy the file to the directory where you want to install OSWbb, and run the   following command:   # tar xvf oswbb601.tar  Extracting the tar file creates a directory named oswbb, which contains all the   directories and files that are associated with OSWbb, including the   startOSWbb.sh script.   * 1. If the ksh package is not already installed on your system, use yum to install   it.   # yum install ksh   * 1. Create a symbolic link from /usr/bin/ksh to /bin/ksh.   # ln -s /bin/ksh /usr/bin/ksh  This link is required because the OSWbb scripts expect to find ksh in /usr/bin.  6.6 To enable the collection of iostat information for NFS volumes, edit the   OSWatcher.sh script in the oswbb directory, and set the value of nfs\_collect   to 1:nfs\_collect=1 |

# **7. Running OSwbb**

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| IAM Permission Team | 7.1 To start OSWbb, run the startOSWbb.sh script from the oswbb directory.  # ./startOSWbb.sh [frequency duration] (or)  nohup /u01/app/oracle/scripts/startOSW.sh 300 24   & > /u01/app/oracle/scripts//oswatcher.log  7.2 The optional frequency and duration arguments specifying how often in   seconds OSWbb should collect data and the number of hours for which   OSWbb should run. The default values are 30 seconds and 48 hours. The   following example starts OSWbb recording data at intervals of 60 seconds,   and has it record data for 12 hours:    # ./startOSWbb.sh 60 12  Testing for discovery of OS Utilities  .  .  VMSTAT found on your system.  IOSTAT found on your system.  MPSTAT found on your system.  NETSTAT found on your system.  TOP found on your system.  Testing for discovery of OS CPU COUNT  .  .  Starting Data Collection...  oswbb heartbeat: date/time  oswbb heartbeat: date/time + 60 seconds  .  .  . |

# **8. Stopping OSWbb**

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| IAM Permission Team | 8.1 To stop OSWbb prematurely, run the **stopOSWbb.sh** script from   the oswbb directory   # ./stopOSWbb.sh   OSWbb collects data in the following directories under the oswbb/archive   directory: |

# **9. Document Control**

| **DOCUMENT HISTORY** | | |
| --- | --- | --- |
| **Revision Number** | **Revision Date** | **Nature of Change** |
| 1.00 | 11-Apr-2017 | Initial release. |
| 2.00 | XXXXX | Rework of post installation verification section. |

**End of Document**