***General Document of Technical issues during Patching and their Resolutions***

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# Patching fail due to ORACLE\_HOME not present in Oracle inventory.

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| **Error:-**  Issue came while applying patch on Oracle Home:- /opt/oracle/product/19/MT0\_uat on one node of two node RAC ( though patch was successfully applied on other node)  OPatchSession cannot load inventory for the given Oracle Home /opt/oracle/product/19/MT0\_uat. Possible causes are: No read or write permission to ORACLE\_HOME/.patch\_storage Central Inventory is locked by another OUI instance No read permission to Central Inventory The lock file exists in ORACLE\_HOME/.patch\_storage The Oracle Home does not exist in Central Inventory  UtilSession failed: RawInventory gets null OracleHomeInfo Log file location: /opt/oracle/product/19/MT0\_uat/cfgtoollogs/opatch/opatch2021-08-14\_02-36-25AM\_1.log  **Identification of Problem:-**  Check the Oracle home presence in Oracle inventory:-  **Node 1 ( where Patch was applied, Oracle home was present )**  [oracle@ausyd26db02vcn1 /opt/oracle/oraInventory/ContentsXML>] cat inventory.xml | grep -i MT0\_uat <HOME NAME="OraDB19Home6" LOC="/opt/oracle/product/19/MT0\_uat" TYPE="O" IDX="12"/> <HOME NAME="OraDB12Home5" LOC="/opt/oracle/product/12.2.0/MT0\_uat" TYPE="O" IDX="13"/> [oracle@ausyd26db02vcn1 /opt/oracle/oraInventory/ContentsXML>]  **Node 2 ( where error came during patching, Oracle home was missing in the inventory)**  [oracle@ausyd26db02vcn2 /opt/oracle/oraInventory/ContentsXML>] cat inventory.xml | grep -i MT0\_uat <HOME NAME="OraDB12Home5" LOC="/opt/oracle/product/12.2.0/MT0\_uat" TYPE="O" IDX="13"/> [oracle@ausyd26db02vcn2 /opt/oracle/oraInventory/ContentsXML>]  **Resolution:-**  Execute runInstaller to attach the missing home in Oracle inventory and execute the patch again.  ./runInstaller -silent -attachHome ORACLE\_HOME="/opt/oracle/product/19/MT0\_uat" ORACLE\_HOME\_NAME="OraDB19Home\_MT" |

# Patch fails due to permission issue in the jdk directory ( there could be other reasons as well )

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| **Error:- Patch resume fails due to below error**  The oracle home /opt/oragrid/product/1220/grid has a platform Linux x86-64 that is not one of the supported platform for the giv en patch: [ Generic Platform] OPATCHAUTO-72009: Invalid ARU id for the platform. OPATCHAUTO-72009: ARU id value not recognized as a valid id for the platform. OPATCHAUTO-72009: Check system configuration. OPatchAuto failed.  OPatchauto session completed at Fri Aug 13 09:51:15 2021 Time taken to complete the session 0 minute, 12 seconds  opatchauto failed with error code 42  **Identification of Problem:-**  OPatchauto fails fails due to replacement of jdk directory in ORACLE HOME/ GRID HOME, even in patch analyze the issue would not show up. Please make sure the directory and its contents has right permission or atleast execute permissions on the subdirectories and its contents ( 754 to be safer side)  **Resolution:-**  Lock the grid service again and restart the cluster. Start opatchauto from start.  As the root user execute:  cd /opt/oragrid/product/19.3.0/rdbms/install/ ./rootadd\_rdbms.sh  cd /opt/oragrid/product/19.3.0/crs/install/ ./rootcrs.sh -postpatch |

# Cluster services unable to start due to patch issues giving Oracle Clusterware Release patch level (XXXXX) does not match Software patch level (XXXX).

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| **Error:**  Below error found during starting of cluster services post patching of grid.  [root@usdfw26db09vcn2 ~]# /opt/oragrid/product/19/grid/bin/crsctl start crs CRS-6706: Oracle Clusterware Release patch level ('968217988') does not match Software patch level ('3321908329'). Oracle Clusterware cannot be started. CRS-4000: Command Start failed, or completed with errors.  **Identification of Problem:-**  Above issue normally comes when patching activity failed due to any issue leading the mismatch of patch directories.  **Resolution:-**   1. **Run the following command as the root user to complete the patching set up behind the scenes:**   root@usdfw26db09vcn2:# $GRID\_HOME/bin/clscfg -localpatch  Creating OCR keys for user 'root', privgrp 'root'..  Operation successful.   1. **Run the following command as the root user to lock the GI home:**   root@usdfw26db09vcn2:# cd ../crs/install/  root@usdfw26db09vcn2:# ./rootcrs.sh –lock  root@usdfw26db09vcn2:# /opt/oragrid/product/19/grid/bin/crsctl start crs |

# Patch fails due to corruption in one-off patch of Grid Home

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| **Error:- ( Error came at one node of RAC though in other node patching activity completed without error)**  Patch: /var/oracle/export/JULY2021\_PSU/JUL2021\_psu/GI\_DB\_COMBO\_jul\_19c/32895426/32904851  Log: /opt/oracle/product/19/db/cfgtoollogs/opatchauto/core/opatch/opatch2021-08-14\_04-16-36AM\_1.log  Reason: /var/oracle/export/JULY2021\_PSU/JUL2021\_psu/GI\_DB\_COMBO\_jul\_19c/32895426/32904851 is not required to be applied to oracle home /opt/oracle/product/19/db  OPATCHAUTO-72053: Analysis for the patches failed.  OPATCHAUTO-72053: Command execution failed.  OPATCHAUTO-72053: Please check the summary for more details.  **Identification of Problem:-**  Checked the log file of patching  /opt/oracle/product/19/db/cfgtoollogs/opatchauto/core/opatch/opatch2021-08-14\_04-16-36AM\_1.log  Found below error  Stack Description: oracle.opatch.opatchsdk.OPatchException: Unable to create patchObject  Possible causes are:  ORACLE\_HOME/inventory/oneoffs/32904851 is corrupted.  **Resolution:-**  Issue got resolved after AFTER COPYING 32904851 from NODE 1 (location - /opt/oragrid/product/19/grid/inventory/oneoffs ) |

# opatchauto apply due to permission issue on oui-patch.xml

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| **Error:-**  Patch: /var/oracle/export/JULY2021\_PSU/JUL2021\_psu/GI\_DB\_COMBO\_jul\_19c/32895426/32904851  Log: /opt/oragrid/product/19/grid/cfgtoollogs/opatchauto/core/opatch/opatch2021-08-14\_00-48-19AM\_1.log  Reason: Failed during Patching: oracle.opatch.opatchsdk.OPatchException: ApplySession failed in system modification phase... 'ApplySession::apply failed: java.io.IOException: oracle.sysman.oui.patch.PatchException: java.io.FileNotFoundException: /opt/oragrid/oraInventory/ContentsXML/oui-patch.xml (Permission denied)'  After fixing the cause of failure Run opatchauto resume  ]  OPATCHAUTO-68061: The orchestration engine failed.  OPATCHAUTO-68061: The orchestration engine failed with return code 1  OPATCHAUTO-68061: Check the log for more details.  OPatchAuto failed.  **Identification of Problem:-**  Check the logfile and found below issue:-  /opt/oragrid/product/19/grid/cfgtoollogs/opatchauto/core/opatch/opatch2021-08-14\_00-48-19AM\_1.log  Log  ===  [Aug 14, 2021 12:52:23 AM] [INFO] [OPSR-TIME] Saving patch 32904851 to inventory  [Aug 14, 2021 12:52:24 AM] [WARNING]OUI-67124:ApplySession failed in system modification phase... 'ApplySession::apply failed: java.io.  IOException: oracle.sysman.oui.patch.PatchException: java.io.FileNotFoundException: /opt/oragrid/oraInventory/ContentsXML/oui-patch.xml  (Permission denied)'  [Aug 14, 2021 12:52:24 AM] [INFO] Restoring "/opt/oragrid/product/19/grid" to the state prior to running NApply...  [Aug 14, 2021 12:52:24 AM] [INFO] Restoring files: copy recurse from /opt/oragrid/product/19/grid/.patch\_storage/NApply/2021-08-14\_00  -49-42AM/backup to /opt/oragrid/product/19/grid  **Resolution:-**  SOLUTION NOTE - opatchauto apply Results java.io.FileNotFoundException: <oraInventory>/ContentsXML/oui-patch.xml (Permission denied) Error in Non-OUI Nodes (Doc ID 2582139.1)  Solution - copied oui-patch.xml from node1 to node 2 and provided same ownership and permission and issue got resolved. |