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Preparing a Linux guest for an installation of 11gR2 (11.2.0.3) Database on Linux on z

Session 197

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Objective of this session

- to share experiences of setting up a Linux guest on System z for an 11gR2 (11.2.0.3) Database installation

Use the latest versions of Oracle and Linux

Read the latest MOS notes and follow the community group



History of setting up Linux Guests for Oracle Database on IBM System z

- 2002 – 2009 - which rpms are needed - main topic of questions/issues
 - Install ALL Linux rpms – took a lot of disk storage
 - My Oracle Support notes with list of rpms needed
 - RPM checker to verify
 - Slight differences between RedHat and SLES
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Linux Guests for Oracle Database 11gR2 on IBM System z

- Red Hat RHEL5 (Update 4 or later)
 - Note – Red Hat 4 Update 8 is certified as well but Red Hat 5 is recommended
- SUSE SLES10 (SP3)
- SUSE SLES11 (SP1)





Linux Guests for Oracle Database on IBM System z – Plans for 2012

- See www.redbooks.ibm.com
 - Using Silent Install Process for Oracle – REDP9131
 - Components of IBM Cloud on System z – REDP4711

- Test and document Provisioning tools
 - Tivoli Provisioning Manager
 - Tivoli Service Automation Manager

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Planning questions

- Disk
 - FCP or CKD (CKD for VM and Linux, FCP for Oracle data)
 - ASM or ext3
 - RAC – Shared disk
- Network
 - IPs for internet access
 - IPs for Interconnect for Grid Infrastructure
 - SCAN IDs
 - RAC Interconnect
- Multiple Guests
 - Cloning method for Linux
 - Provisioning Oracle Binaries



Version of Oracle

- 11.2.0.3 is a complete replacement of 11.2.0.2 not just a patch set available at support.oracle.com
- 11.2.0.3 consists of 6 files on My Oracle Support in Patch 10404530
- 11.2.0.3. client consists of 2 files under the 32 bit version
- In January of 2012, the first Patch Set Updates for 11.2.0.3 were released. These patch set updates are issued quarterly. You can download these to update the database to the latest level. These are the April 2012 patches that bring it to the 11.2.0.3.2 level:
 - 11.2.0.3.2 Patch Set Update (PSU) Patch:13696216
 - 11.2.0.3.2 Grid Infrastructure Patch Set Update (GI PSU) Patch:13696251



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Oracle Database 11gR2 -Redpapers

- You may find valuable information in the IBM Redpaper "Installing Oracle 11gR2 RAC on Linux on System z" <http://www.redbooks.ibm.com/abstracts/redp4788.html?Open>
 - Covers installing without ASMLib for RH5
 - Changes in RH6 – will need a new note on this
- A new paper will be available in 2Q 2012 - Experiences with a Silent Install of Oracle Database 11gR2 RAC on Linux on System z (11.2.0.3), REDP9131 <http://www.redbooks.ibm.com/abstracts/redp9131.html?Open>



Oracle Database 11gR2 (11.2.0.3) My Oracle Support Notes

- 1306465.1 - Getting Started - 11gR2 Grid Infrastructure, ASM and DB (IBM: Linux on System z)
- 1290644.1 - Requirements for Installing Oracle 11gR2 on SLES11 on IBM: Linux on System z (s390x)
- 1306889.1 - Requirements for Installing Oracle 11gR2 on RHEL 5 on IBM: Linux on System z (s390x)
- 1308859.1 - Requirements for Installing Oracle 11gR2 RDBMS on SLES 10 SP3 on IBM: Linux on System z (s390x)
- **1086769.1 - Ensure you have prerequisite rpms to install Oracle Database and AS10g(midtier) on IBM: Linux on System z (s390x)**
- 169706.1 - Oracle Database on Unix AIX,HP-UX,Linux,Mac OS X,Solaris,Tru64 Unix Operating Systems Installation and Configuration Requirements Quick Reference (8.0.5 to 11.2)
- Oracle® Database Patch Set Notes 11g Release 2 (11.2.0.3) Patch Set 2 Part Number E26115-01
- Check Release Notes for SUSE Linux Enterprise Server 11 Service Pack 1, specifically IBM System z Architecture Level Set (ALS) preparation to verify your machine type. http://www.novell.com/linux/releasenotes/x86_64/SUSE-SLES/11-SP1/#s390x
- **Community forum is a great place to share experiences Database – IBM zSeries Platform**



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Cleanup options for Oracle Database 11gR2 (11.2.0.3)

- – Note 1413787.1 How to remove 11.2 Grid Infrastructure, CRS and/or Oracle Restart - IBM: Linux on System z

Cloning Options

- – Note 1413846.1 How to Clone an 11.2 Grid Infrastructure Home and Clusterware - IBM: Linux on System z





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Your Experiences

- Lessons learned
- Suggestions for chapters in new Redbook
 - Installation- Linux, Oracle 11.2.0.3, Tuning
 - Provisioning with IBM Cloud
 - Oracle Enterprise Manager with agent
 - Live Guest Relocation – Database node down