



EBS Cloning Panel

Panel Moderator: Sandra Vucinic

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Panel Members

- Elke Phelps Humana
- Mike Brown Colibri Limited
- Lynne Paulus Fair Isaac Corporation
- Srini Chavali Cummins
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Agenda

- Case Study 11i Cloning at Cummins
- Case Study 11i Cloning at Humana
- Examples of getting data for the clone
- Q & A





Case Study - 11i Cloning at Cummins

- Multiple 11i instances worldwide
- Corporate has two global single instances, one each for Financials and HR
- Finance is 11.5.10 CU2 ATG6, HR is ATG4
- Finance database size is about 350G, HR is about 200G
- Both have multiple languages enabled Finance has 3 and HR has 14
- Environment is Sun Solaris 9 with DB version 10.2.0.2





Case Study - 11i Cloning at Cummins

- We do not use Oracle's clone methods ③
- Finance was upgraded from 10.7SC and HR from 11.5.5 – rapidclone from these installs has never worked, despite many patches and SRs
- Our philosophy is to keep similar/equal patch levels on our instances
- Cloning work is reduced to copying over the database and running autoconfig
- Inherent risk that must be accepted





Case Study - 11i Cloning at Cummins

- We use profile options "Java Color Scheme" and "Site Name", along with message name "FND_SSO_WELCOME" in FND_NEW_MESSAGES to distinguish between instances
- All non-production workflow notifications are directed to a test email box that necessary folks have access to – this email is set as part of the clone process







- Utilize disk mirroring to create nightly hot backup
 - EMC BCV Technology
 - IBM Flashcopy
- Cloning with disk mirroring steps
 - Set all tablespaces in hotbackup mode
 - Break disk mirror
 - Set all tablespaces out of hotbackup mode







- Run cloning pre-steps
 - Check target filesystem size
 - Shutdown target
 - Remove target filesystem contents
 - Copy filesystem from split disk to target filesystem
- Run adcfgclone.pl
 - MetaLink Note 230672.1
 - Run post-steps







• Clean FND_NODES

- Per MetaLink Note 260887.1 "Steps to Clean Nonexistent Nodes or IP Addresses from FND_NODES"
- Execute following command as apps
- sql>execute fnd_conc_clone.setup_clean;
- Requires executing adconfig to repopulate FND_NODES
- Put concurrent requests on hold
 - sql>update fnd_concurrent_requests
 set hold_flag = 'Y';





Change Application Passwords

FNDCPASS apps/apps 0 Y system/manager ORACLE \ GL PASSWORD FNDCPASS apps/apps 0 Y system/manager USER \ VISION PASSWORDFNDCPASS apps/apps 0 Y system/manager SYSTEM \ APPLSYS PASSWORD

- Additional steps required for APPS and APPLSYS
- MetaLink Note 159244.1





- Change Application Passwords (continued)
 - Patch 4745998 (included in ATG RUP5 and RUP6) update for FNDCPASS
 - Allows a mass change of all E-Biz schemas
 - FNDCPASS apps/apps 0 Y system/manager
 \ ALLORACLE PASSWORD
- Changing Database Passwords (SYS, SYSTEM, etc)
 - -sql>alter user [USERNAME] identified by [PASSWORD];







- Un-enddate Application Responsibilities
 - Easy way to provide additional access to users in test
 - sql> UPDATE FND_USER_RESP_GROUPS SET END_DATE = NULL WHERE responsibility_id in (RESPONSIBILITY_LIST) AND user_id in (ID_LIST)
- Grant additional access to development team
 - \$chmod -R 660 \$APPL_TOP







- Drop database links
 - Required Links
 - APPS APPS_TO_APPS.WORLD
 - APPS EDW_APPS_TO_WH.WORLD
 - Other links are subject to removal
 - Links to other production databases
 - sql>drop [public] database link prod.world;







- Remove log and output files
 - Concurrent Manager log and output files
 - rm \$APPLCSF/\$APPLLOG/*
 - rm \$APPLCSF/\$APPLOUT/*
 - Apache and JVM log files
 - rm \$APACHE_TOP/Apache/logs/*
 - rm \$APACHE_TOP/Jserv/logs/*
 - rm \$APACHE_TOP/Jserv/logs/jvm/*

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Getting the Data for the Clone

- Several methods for copying data
- Assumption: database is down or tablespaces are in backup mode
- OS Utilities
 - rsync
 - Same host
 - Clone will be on same host
 - Network drive (NFS/CIFS from host or NAS device)
 - Network copy







Getting the Data for the Clone

- Disk Level
 - Host based split mirror
 - Disk subsystem level
 - Read/Write Snapshots (warning REDO, UNDO and TEMP)
 - Split Mirrors (e.g. BCVs)
- Combination
 - Split mirror is used for backup, use host based commands to copy split mirror to target for clone
- Dataguard as source







Q & A

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Thank You!

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