Congratulations! You're the New DBA. Don't Panic!

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Congratulations! You're the New DBA. Don't Panic!
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Learning the Environment

Oracle Database

- How Many Databases
- Which Versions of Oracle
- What is OFA and Why Do You Care?
- Locations Of the Important Files
  - Init.ora
  - Oratab
  - Listener.ora
  - Tnsnames.ora
  - Sqlnet.ora
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➢ What is OFA?

/  
app/  
   oracle/ --------------------------=$ORACLE_BASE  
   admin/  
   /proddb1  -----------=$DBA  
      cdump/  
      arch/  
      bdump/  
      udump/  
      exp/  
      log/  
      pfile/  

product/  
8.1.6/---------------------=$ORACLE_HOME  
... all directories containing the Oracle 8.1.6 installed products
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➢ What is OFA?

usr/
  local/
    bin/
      coraenv
dbhome
oraenv
dbstart
dbshut
 dbswitch
dbsid
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➤ What is OFA?

  var/
  opt/

    oracle/
      oratab
      listener.ora
      tnsnames.ora
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- **Learning the Environment** continued...

- **Hardware and Operating System**
  - Which Operating System
  - OS Parameters That Affect Oracle
    - Shared Memory Segment Size
    - Number of Semaphores
  - Disks
    - Number and Size
    - Striping
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- Learning the Environment continued...

  - Application

    - Uptime Requirements
    - Space Growth Projections
    - Frequency of Changes
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➢ You Need to Develop Some Strategies

➢ Backup and Recovery

➢ What kinds of backups
  ✓ Hot
  ✓ Cold
  ✓ Export

➢ Standby Database

➢ Replication
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➢ You Need to Develop Some Strategies

➢ To Archive or Not To Archive

➢ Downtime Available For Backups

➢ Point-in-time Recovery Required?
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➢ **You Need to Develop Some Strategies**

➢ **When Can I Take the Database Down**

  ➢ Planned Maintenance
    ✓ Operating System Upgrades
    ✓ Database Software Upgrades
    ✓ Application Changes

  ➢ Partial Access Possible?
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- Daily Procedures
  - Verify All Instances Are Up
  - Check the Alert Logs
  - DBSNMP Processes
  - Verify Backups Were Successful
  - Review All Scheduled Jobs
  - Monitor Archive Log Disks
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- **Daily Procedures continued…**
  - Monitor Disk Capacity
  - Remove Unnecessary Files
  - Monitor Locking
  - Monitor Extents
    - Max Extents
    - NextExtent
  - Tablespace Usage
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- **Daily Procedures** continued...

  - **Session and User Information**
    - Total Sessions
    - Accounts with DBA privilege
    - Total Active Sessions
    - Total Sessions By Account
    - Open Cursors Per Session
    - Statistical Information By Session
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➢ Daily Procedures continued...

➢ Stored Objects
   ➢ Invalid Objects
   ➢ Generated DDL for Stored Objects

➢ Exports
   ➢ Data
   ➢ Database DDL
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» Daily Procedures continued...

» Overall Database Statistics
  » Basic Performance Scripts
  » Customized Bstat/ Estat Scripts
  » Analyzing Database Objects
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- Periodic Procedures
  - Test Backups
  - Test Recovery Procedures
  - Reviews With Developers
  - Educate Yourself
    - New software features
    - Bugs and solutions
  - Review Statistics
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- **Websites**
  - technet.oracle.com
  - www.oracle.com/support
  - www.lonyx.com
  - www.ixora.com.au
  - www.lazydba.com

- **Email Lists**
  - Oracle-L (send email to ListGuru@fatcity.com, with subscribe ORACLE-L <your name> in the body of the mail)
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➢ In Summary:
   ➢ Learn the Environment
   ➢ Make and Test Backups regularly
   ➢ Manage User Expectations
   ➢ Monitor Everything
   ➢ Don’t Panic!
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Questions?
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