



Oracle Cloud Course Content

Getting Started with Database Cloud Service

- About Oracle Database Cloud Service
- About Database Cloud Service Database Deployments
- Service Level
- Metering Frequency
- Oracle Database Software Release
- Oracle Database Software Edition
- Oracle Database Type
- Computing Power
- Database Storage
- Automatic Backup Configuration
- Before You Begin with Database Cloud Service
- How to Begin with Database Cloud Service Subscriptions
- About Database Cloud Service Roles and Users
- Accessing the Oracle Database Cloud Service Console
- Using the Database Cloud Service REST APIs
- Typical Workflow for Using Database Cloud Service
- About Database Deployments in Oracle Cloud Infrastructure

Managing the Database Cloud Service Life Cycle

- Creating a Database Deployment
- Creating a QuickStart Database Deployment
- Standard Edition
- Enterprise Edition
- Extreme Performance
- Creating a Customized Database Deployment
- Creating a Database Deployment Using a Cloud Backup
- Replacing the Database by Using the Oracle Database Cloud Service Console



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- Replacing the Database by Using ibkup Actions
- Creating a Clone Database Deployment from a Snapshot
- Creating a Hybrid DR Deployment
- Viewing All Database Deployments
- Viewing Detailed Information for a Database Deployment
- Viewing Activities for Database Deployments in an Identity Domain
- Stopping, Starting and Restarting a Database Deployment
- Rebooting a Compute Node
- Scaling a Database Deployment
- Creating and Managing IP Reservations
- Creating an IP Reservation
- Using an IP Reservation when Creating a Database Deployment
- Deleting an IP Reservation
- Creating and Managing Snapshots of a Database Deployment
- Deleting a Database Deployment
- Tracking the Number of Database Deployments in an Account

Managing Network Access to Database Cloud Service

- About Network Access to Database Cloud Service
- Generating a Secure Shell (SSH) Public/Private Key Pair
- Generating an SSH Key Pair on UNIX and UNIX-Like Platforms Using the sshkeygen Utility
- Generating an SSH Key Pair on Windows Using the PuTTYgen Program
- Creating an SSH Tunnel to a Compute Node Port
- Creating an SSH Tunnel Using the ssh Utility on Linux
- Creating an SSH Tunnel Using the PuTTY Program on Windows
- Enabling Access to a Compute Node Port
- Enabling IPsec VPN Access to Database Cloud Service
- Defining a Custom Host Name or Domain Name for Database Cloud Service
- Using Network Encryption and Integrity



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Administering Database Cloud Service

- Adding Temporary Storage to a Database Deployment
- Adding an SSH Public Key
- Updating the Cloud Tooling on Database Cloud Service
- Updating the Cloud Tooling by Using the dbpatchm Subcommand
- Updating the Cloud Tooling by Using the raccli Utility
- Administering a Data Guard Configuration
- Checking the Status of the Oracle Data Guard Configuration
- Performing a Switchover Operation
- Performing a Switchover Operation by Using the dbascli Utility
- Performing a Manual Failover Operation
- Performing a Manual Failover Operation by Using the dbascli Utility
- Reinstating a Failed Primary Database
- Reinstating a Failed Primary Database by Using the dbascli Utility
- Changing the SYS Password
- Configuring Clients for Automatic Failover
- Preparing 12.2 Database Deployments for Patching
- Preparing 12.2 Database Deployments Hosting Single-Instance Databases for Patching
- Preparing 12.2 Database Deployments Hosting Oracle RAC Databases for Patching
- Upgrading Database deployments Hosting Single-Instance Databases to Oracle Linux 6.6 with UEK3
- Applying Linux OS Security Patches
- Applying Linux OS Security Patches by Using the dbpatchmsm Utility
- Manually Applying Linux OS Security Patches
- Improving Block I/O Performance by Enabling Multi-Page Ring Support in the Linux OS
- Maintaining the Manageability of Database Cloud Service
- Administering Oracle REST Data Services (ORDS)
- Adding a Signed SSL Certificate to Oracle REST Data Services
- Stopping Oracle REST Data Services
- Starting Oracle REST Data Services
- Loading Data into the Oracle Database on Database Cloud Service
- Tuning Oracle Database Performance on Database Cloud Service
- Monitoring and Managing Oracle Database on Database Cloud Service
- Managing the Log and Diagnostic Files on Database Cloud Service



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- Creating a Database using the Virtual Image Service Level
- Creating a Database on a Virtual Image Database Deployment: Example

Accessing Database Cloud Service

- Connecting to a Compute Node Through Secure Shell (SSH)
- Connecting to a Compute Node Using the ssh Utility on UNIX and UNIX-Like Platforms
- Connecting to a Compute Node Using the PuTTY Program on Windows
- Accessing Enterprise Manager Database Express 12c
- Accessing Enterprise Manager 11g Database Control
- Connecting Remotely to the Database by Using Oracle SQL Developer
- Connecting Remotely to the Database by Using Oracle Net Services
- Copying Files to or from a Database Cloud Service Database Deployment

Backing Up and Restoring Databases on Database Cloud Service

- About Backing Up Database Deployments on Database Cloud Service
- Viewing Backup Configuration Information
- Creating an On-Demand Backup
- Creating an On-Demand Backup by Using the bkup_api Utility
- Creating an On-Demand Backup by Using the raccli Utility
- Deleting a Backup
- Updating the Password for Backing Up to the Storage Cloud
- Updating the Password by Using the bkup_api Utility
- Updating the Password by Using the raccli Utility
- Customizing the Current Backup Configuration
- Customizing the Current Backup Configuration on Database Deployments
- Hosting Single-Instance Databases
- Customizing the Current Backup Configuration on Database Deployments
- Hosting Oracle RAC Databases
- Changing the Backup Configuration to a Different Backup Destination
- Changing the Backup Configuration on Database Deployments Hosting Single-Instance Databases
- Changing the Backup Configuration on Database Deployments Hosting Oracle RAC Databases
- Increasing Local Storage for Backups on Older Database Deployments
- Disabling and Re-enabling Scheduled Backups



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- Restoring from the Most Recent Backup
- Restoring from the Most Recent Backup by Using the dbascli Utility
- Restoring from the Most Recent Backup by Using the raccli Utility
- Restoring from a Specific Backup
- Restoring from a Specific Backup by Using the dbascli Utility
- Restoring to a Specific Point in Time
- Restoring to a Specific Point in Time by Using the dbascli Utility
- Restoring to a Specific Point in Time by Using the raccli Utility
- Recreating an Unrecoverable Database Deployment From a Backup to Cloud Storage

Patching Database Cloud Service

- Viewing Available Patches
- Viewing Available Patches by Using the dbpatchm Subcommand
- Viewing Available Patches by Using the dbpatchmdg Utility
- Checking Prerequisites Before Applying a Patch
- Checking Patch Prerequisites by Using the dbpatchm Subcommand
- Checking Patch Prerequisites by Using the dbpatchmdg Utility
- Checking Patch Prerequisites by Using the raccli Utility
- Applying a Patch
- Applying a Patch by Using the dbpatchm Subcommand
- Applying a Patch by Using the dbpatchmdg Utility
- Applying a Patch by Using the raccli Utility
- Rolling Back a Patch or Failed Patch
- Rolling Back a Patch or Failed Patch by Using the dbpatchm Subcommand
- Rolling Back a Patch or Failed Patch by Using the dbpatchmdg Utility
- Applying a Patch to a Test Deployment
- Patching a Hybrid DR Deployment
- The dbpatchm.cfg Configuration File



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Configuring Database Features, Database Options, and Companion

Products

- Using Oracle Real Application Clusters (RAC) in Database Cloud Service
- Using Oracle Data Guard in Database Cloud Service
- More About Oracle Data Guard
- Using Oracle Real Application Clusters (RAC) and Oracle Data Guard Together in Database Cloud Service
- Using Oracle Multitenant in Database Cloud Service
- Creating and Activating a Master Encryption Key for a PDB
- Exporting and Importing a Master Encryption Key for a PDB
- Using Oracle Database Vault in Database Cloud Service
- Configuring and Enabling Oracle Database Vault
- Disabling Oracle Database Vault
- Using Oracle Application Express in Database Cloud Service
- Accessing the Oracle Application Express Console
- Upgrading from Oracle Application Express 4.2 or 5.0 to 5.1 for Oracle Database 11g
- Upgrading from Oracle Application Express 4.2 to 5.1 for Oracle Database 12c
- Upgrading from Oracle Application Express 5.0 to 5.1 for Oracle Database 12c
- Moving Oracle Application Express 5.1 from CDB\$ROOT to PDBs
- Using the Demos PDB
- Using Oracle Enterprise Manager Cloud Control with Database Cloud Service
- Using Oracle GoldenGate Cloud Service with Database Cloud Service
- Manually Configuring a Deployment's Database for Oracle GoldenGate Cloud Service Replication

Migrating Oracle Databases to Database Cloud Service

- Choosing a Migration Method
- Migrating from Oracle Database 11g to Oracle Database 11g in the Cloud
- Migrating from Oracle Database 11g to Oracle Database 12c in the Cloud
- Migrating from Oracle Database 12c CDB to Oracle Database 12c in the Cloud
- Migrating from Oracle Database 12c Non-CDB to Oracle Database 12c in the Cloud
- Migration Methods



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- Data Pump Conventional Export/Import
- Data Pump Conventional Export/Import: Example
- Data Pump Full Transportable
- Data Pump Full Transportable: Example
- Data Pump Transportable Tablespace
- Data Pump Transportable Tablespace: Example
- Remote Cloning a PDB
- Remote Cloning Non-CDB
- RMAN Cross-Platform Transportable PDB
- RMAN Cross-Platform Transportable Tablespace Backup Sets
- RMAN Cross-Platform Transportable Tablespace Backup Sets: Example
- RMAN Transportable Tablespace with Data Pump
- RMAN Transportable Tablespace with Data Pump: Example
- RMAN CONVERT Transportable Tablespace with Data Pump
- RMAN CONVERT Transportable Tablespace with Data Pump: Example
- SQL Developer and INSERT Statements to Migrate Selected Objects
- SQL Developer and SQL*Loader to Migrate Selected Objects
- Unplugging/Plugging a PDB
- Unplugging/Plugging Non-CDB

Using Oracle DBaaS Monitor

- About Oracle DBaaS Monitor
- Accessing Oracle DBaaS Monitor
- Filtering the Display on DBaaS Monitor Pages
- Administering the Listener
- Viewing Listener Status Information
- Starting the Listener
- Stopping the Listener
- Verifying that the Listener Knows of a Service
- Starting and Stopping the Database Instance
- Starting the Database Instance
- Stopping the Database Instance
- Viewing and Modifying Initialization Parameters
- Viewing User Account and Expiring Password Information
- Viewing Tablespace and Segment Space Usage
- Changing the TDE Keystore Password
- Viewing Alert Log Entries and Checking for Errors



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- Viewing Real Time SQL Monitor
- Administering Pluggable Databases
- Cloning a Pluggable Database
- Closing a Pluggable Database
- Creating a Pluggable Database
- Dropping a Pluggable Database
- Opening a Pluggable Database
- Plugging In a Pluggable Database
- Unplugging a Pluggable Database

Troubleshooting Database Cloud Service

- Problems Creating Deployments
 - I cannot create a deployment when I have many database deployments
 - I cannot create a deployment, even after waiting for an hour
 - I get a "SCRIPT execution errors" message when I try to create a deployment with backups to cloud storage
- Problems Administering Deployments
 - I am required to change the password for the oracle user when I try to connect to a compute node
 - I get a Linux error 30, Read-only file system, when trying to connect to or work in my environment
 - I can't use dbaascli to update my cloud tooling
- Problems with Scaling
 - My scaling operation does not start 12-5
 - My deployment is too busy to allow scaling 12-5
 - After scaling the shape of my Data Guard configuration, I get an ORA-16792 warning when I check the status of the configuration
- Problems with Patching and Rollback
 - I receive a message stating that the virtual machines are unhealthy
 - I receive a message stating that the instance is busy with another operation
 - I cannot apply a patch due to a lack of storage space
 - My attempt to roll back the January 2015 Patch Set Update (Jan 2015 PSU) fails
 - My attempt to roll back the April 2015 Patch Set Update (Apr 2015 PSU) fails
- Problems with Backing Up and Restoring
 - There is not enough space for my backup
 - I receive a message stating that there was an unexpected error during the duplicate command (ORA messages)



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- I receive a message stating that there was an unexpected error during the duplicate command (RMAN messages)
- A backup fails with an ORA-19914 and ORA-28361

Characteristics of a Newly Created Deployment

- Characteristics Common Across Database Deployment Types
- Data Security
- Security of Data at Rest
- Security of Data in Transit
- Hybrid Columnar Compression (HCC)
- Tablespace Encryption
- Creating Encrypted Tablespaces
- Managing Tablespace Encryption
- Characteristics of a Single Instance Database Deployment
- Linux User Accounts
- Storage Volumes and File System Layout
- Locations of Installed Software
- Network Access
- Oracle Database Characteristics
- Location of Diagnostic and Log Files
- Characteristics of a Single Instance with Data Guard Standby Database Deployment
- Linux User Accounts
- Storage Volumes and File System Layout
- Network Access
- Oracle Data Guard Configuration
- Characteristics of a Database Clustering with RAC Database Deployment
- Linux User Accounts
- Storage Volumes and File System Layout
- Network Access
- Characteristics of a Database Clustering with RAC and Data Guard Standby
- Database Deployment
- Linux User Accounts
- Storage Volumes and File System Layout
- Network Access
- Oracle Data Guard Configuration
- Characteristics of an Oracle Database Cloud Service - Virtual Image Database
- Deployment



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- Linux User Accounts
- Storage Volumes and File System Layout
- Location of Installed Software
- Network Access

Oracle Cloud Pages for Administering Database Cloud Service

- Services Page
- Activity Page
- SSH Access Page
- IP Reservations Page
- QuickStarts Page
- Overview Page
- Access Rules Page
- Backup Page
- Patching Page
- Snapshots Page
- Create Service: Service Page
- Create Service: Service Details Page
- Create Service: Confirmation Page

The oracle-dbcs-cli Utility

- Downloading and Installing the oracle-dbcs-cli Utility
- Running the oracle-dbcs-cli Utility
- The Configuration File for oracle-dbcs-cli Subcommands
- The Data File for the oracle-dbcs-cli create Subcommand

The dbaascli Utility

- dbaascli database bounce
- dbaascli database changepassword
- dbaascli database start
- dbaascli database status
- dbaascli database stop
- dbaascli dataguard failover
- dbaascli dataguard reinstate
- dbaascli dataguard status
- dbaascli dataguard switchover



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- dbascli dbpatchm apply
- dbascli dbpatchm clonedb
- dbascli dbpatchm list_patches
- dbascli dbpatchm list_tools
- dbascli dbpatchm prereq
- dbascli dbpatchm rollback
- dbascli dbpatchm switchback
- dbascli dbpatchm toolsinst
- dbascli dv off
- dbascli dv on
- dbascli gg setup
- dbascli gg status
- dbascli listener bounce
- dbascli listener start
- dbascli listener status
- dbascli listener stop
- dbascli netsec config
- dbascli netsec config encryption
- dbascli netsec config integrity
- dbascli netsec status
- dbascli orec duplicate
- dbascli orec keep list
- dbascli orec keep tag
- dbascli orec latest
- dbascli orec list
- dbascli orec pitr
- dbascli orec scn
- dbascli tde rotate masterkey
- dbascli tde status

The raccli Utility

- raccli apply patch
- raccli clean backup
- raccli create backup
- raccli create recovery



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- raccli describe job
- raccli describe system
- raccli failover dataguard
- raccli list backup
- raccli list backupconfig
- raccli list jobs
- raccli list recovery
- raccli reinstate dataguard
- raccli status dataguard
- raccli switchover dataguard
- raccli update backupconfig
- raccli update databasepassword
- raccli update netsec
- raccli update rdk
- raccli update tde

The dbpatchmdg Utility

- Running the dbpatchmdg Utility
- dbpatchmdg apply_async
- dbpatchmdg precheck_async
- dbpatchmdg rollback_async



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