

MAKING IT AVAILABLE

Keeping your systems and data highly available means being prepared for both planned and unplanned situations. Oracle offers a complete set of technologies that enable you to avoid costly downtime and rapidly recover from unforeseen failures.

UNPLANNED DOWNTIME

PROTECTING FROM DATA FAILURE

Site Failure

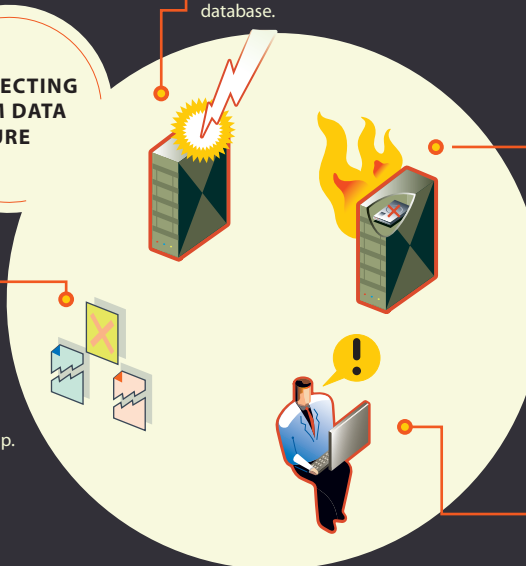
Oracle Data Guard provides the ability to set up and maintain a standby copy of your production database.

Storage Failure

Automatic Storage Management simplifies disk management tasks such as mirroring, helping DBAs protect against data storage failure.

Corruption

When data corruption occurs, Oracle provides a host of tools for backup and recovery, such as RMAN and Oracle Secure Backup.



Human Error

Human error can occur on many levels; Oracle offers capabilities such as Flashback technologies for analyzing and correcting human error, and LogMiner for analyzing and auditing data changes.

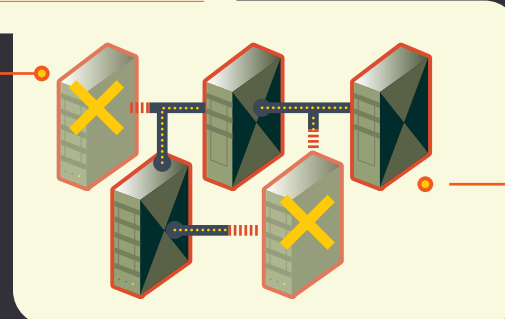
Fast Start Fault Recovery

Fast Start Fault Recovery provides fast and predictable recovery from system faults and database failures.

PROTECTING FROM COMPUTER FAILURE

Oracle Real Application Clusters (Oracle RAC)

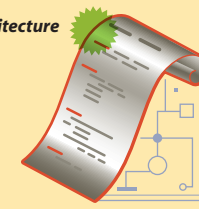
Oracle RAC enables enterprise grid computing by clustering multiple servers that are highly available and easily scalable.



BEST PRACTICES

Maximum Availability Architecture

Oracle offers a fully integrated and proven blueprint for building highly available systems, called Maximum Availability Architecture (MAA).



PLANNED DOWNTIME

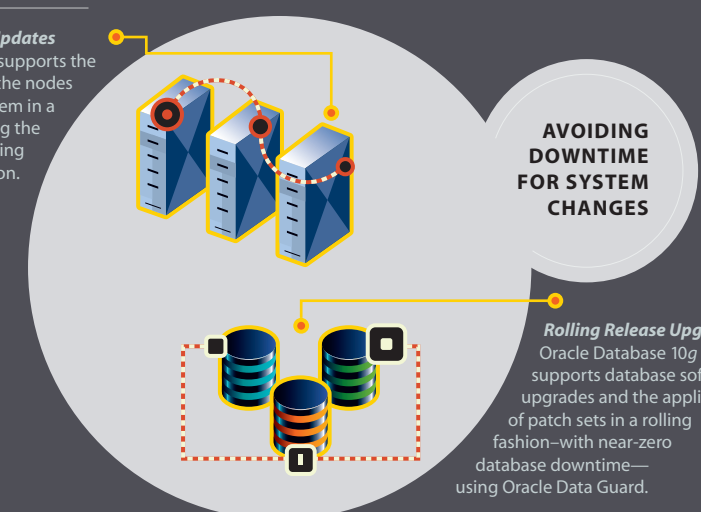
Rolling Patch Updates

Oracle Database supports the application of patches to the nodes of an Oracle RAC system in a rolling fashion, keeping the system available during patch application.

AVOIDING DOWNTIME FOR SYSTEM CHANGES

Rolling Release Upgrades

Oracle Database 10g supports database software upgrades and the application of patch sets in a rolling fashion—with near-zero database downtime—using Oracle Data Guard.



Dynamic Resource Provisioning

Adapting to changes in hardware and meeting resource demands can be accomplished without disrupting the database.

AVOIDING DOWNTIME FOR DATA CHANGES

Partitioning

Database administrators can partition large tables and indexes, helping prevent regular maintenance from impacting entire tables and confining errors to smaller data sets.

Online Reorganization

Administrators can perform maintenance operations without disrupting database operations or users who are updating or accessing data.

