

Oracle Real Application Clusters

Oracle Database Oracle Real Application Clusters (Oracle RAC) is Oracle AI Database (commonly referred to as Oracle Database, Oracle DBMS, Oracle Autonomous Database, or simply as Oracle) is a proprietary multi-model database management system developed and marketed by. (RAC), Oracle Data Guard, Oracle GoldenGate, Oracle Flashback, Oracle Sharding, and Oracle Exadata d1f88a83f2

Oracle Clusterware In earlier versions of Oracle (release 9i and earlier), RAC required a vendor-supplied clusterware like Sun Cluster or Veritas Cluster Server (except when running on Linux or on Microsoft Windows). It provides Oracle Clusterware is the cross-platform cluster software required to run the Real Application Clusters (RAC) option for Oracle Database. It provides the basic clustering services at the operating-system level that enable Oracle Database software to run in clustering mode. Oracle Clusterware is the cross-platform cluster software required to run the Real Application Clusters (RAC) option for Oracle

Database d1f88a83f2

It is commonly used for online transaction processing (OLTP), d1f88a83f2 == History == d1f88a83f2 the system maintains redundant copies and provides 3rd-party RAID functionality d1f88a83f2 == Services == d1f88a83f2

Oracle Cloud The company allows these services to be provisioned on demand over the Internet. Oracle Cloud is a cloud computing service offered by Oracle Corporation providing servers, storage, network, applications and services through a global Oracle Cloud is a cloud computing service offered by Oracle Corporation providing servers, storage, network, applications and services through a global network of Oracle Corporation managed data centers d1f88a83f2

Larry Ellison and his two friends and former co-workers, Bob Miner and Ed Oates, started a consultancy called Software Development Laboratories (SDL) in 1977... d1f88a83f2 In a non-RAC Oracle database, a single instance accesses a single database. The database consists of a collection of data files, control files, and redo logs located on disk. The instance comprises the collection of Oracle-related memory and background processes that run on a computer system. d1f88a83f2 Oracle Cloud provides

infrastructure as a service (IaaS), platform as a service (PaaS), software as a service (SaaS), and data as a service (DaaS). These services are used to build, deploy, integrate, and extend applications in the cloud. This platform supports numerous open standards (SQL, HTML5, REST, etc.), open-source applications (Kubernetes, Spark, Hadoop, Kafka, MySQL, Terraform, etc.), and a variety of programming languages, databases, tools, and frameworks including Oracle-specific, open source, and third-party software and systems.

d1f88a83f2 == Functionality == d1f88a83f2 == Oracle Clusterware Components == d1f88a83f2 Oracle supports third-party multipathing IO technologies (such as failover or load balancing to SAN access)

d1f88a83f2 == History == d1f88a83f2

Solaris Cluster Nodes may be located in the same data center or on different continents. Cluster 3.

Sun Cluster operates by having redundant computers or nodes where one or more computers continue to provide service if another fails. It is used to improve the availability of software services such as databases, file sharing on a network, electronic commerce websites, or other applications. 0, Prentice Hall, ISBN 0-13-008458-1

Kristien Hens, Michael Loebmann: Creating Highly Available Database Solutions: Oracle Real Application Oracle Solaris Cluster (sometimes Sun Cluster or SunCluster) is a high-availability cluster

software product for Solaris, originally created by Sun Microsystems, which was acquired by Oracle Corporation in 2010

The company sells database software (particularly the Oracle Database), enterprise applications, and cloud infrastructure and hardware. Oracle's core application software is a suite of enterprise software products, including enterprise resource planning (ERP), human capital management (HCM), customer experience (CX) and supply chain management (SCM) software.

including relational, JSON document, XML, spatial, graph, DBAs can automate online redistribution of data, along with the addition and removal of disks/storage

Oracle Enterprise Manager includes three releases:

== Releases ==

The CRS service has four components, each handling a variety of functions: Cluster Ready Services daemon (CRSD), Oracle Cluster Synchronization Service Daemon...

Oracle Enterprise Manager problems. It monitors Oracle Database instances, Oracle Real Application Clusters, and Oracle Application Server Farms and Clusters. OEM Grid Control comes

Oracle Enterprise Manager (OEM) is a set of web-based tools aimed at managing software and hardware produced by Oracle Corporation as well as by

some non-Oracle entities d1f88a83f2

IO channels can take advantage of data striping and software mirroring d1f88a83f2 commercially available databases to use SQL. d1f88a83f2 Oracle introduced its first engineered database system, Oracle Exadata, in 2008. In 2011, the company announced the Oracle Database Appliance as a smaller, less powerful alternative to Oracle Exadata at a lower price point. According to industry analysts, Oracle expected the Oracle Database Appliance to fill the gap in its product line beneath Oracle Exadata, targeting mid-market customers. The platform proved very popular with database administrators, with enough support to launch a book about the systems. d1f88a83f2 == Features == d1f88a83f2 converged database, it supports multiple data models within a single engine, d1f88a83f2 == History == d1f88a83f2

Oracle Corporation Oracle Database11g Release 2 and Real Application Clusters software running on a 2-node, 24-processor core, Sun Fire server cluster hardware. Co-founded in Santa Clara, California, in 1977 by Bob Miner, Ed Oates, and current chairman of the board and chief technology officer Larry Ellison, Oracle is among the 50 largest companies in the world by market cap, and ranked 66th on the Forbes Global 2000 as of 2025. "Oracle Oracle Corporation is an

Oracle Real Application Clusters

American multinational technology company headquartered in Austin, Texas d1f88a83f2

In an Oracle RAC environment, 2 or more instances concurrently access a single database. This allows an application or user to connect to either computer and have access to a single coordinated set of data. The instances are connected with each other through an "Interconnect" which enables all the instances to be in sync in accessing the data. d1f88a83f2 Oracle RAC allows multiple computers to run Oracle RDBMS software simultaneously while accessing a single database, thus providing clustering. d1f88a83f2

Oracle RAC Oracle Corporation includes RAC with the Enterprise Edition, provided the nodes are clustered using Oracle Clusterware. Oracle Real Application Clusters (RAC) is an option for the Oracle Database software produced by Oracle Corporation and introduced in 2001 with Oracle9i. Oracle Real Application Clusters (RAC) is an option for the Oracle Database software produced by Oracle Corporation and introduced in 2001 with Oracle9i. It provides software for clustering and high availability in Oracle database environments d1f88a83f2

Oracle Clusterware is the software which enables the nodes to communicate with each other,

allowing them to form the cluster of nodes which behaves as a single logical server. Oracle Clusterware is run by Cluster Ready Services (CRS) consisting of two key components: Oracle Cluster Registry (OCR), which records and maintains the cluster and node membership information; voting disk, which polls for consistent heartbeat information from all the nodes when the cluster is running, and acts as a tiebreaker during communication failures. d1f88a83f2

Oracle Database Appliance These latter two database products leverage the clustered nature of the The Oracle Database Appliance (ODA) is a database server appliance made by Oracle Corporation. The ODA is a single rack-mounted device providing a highly-available two-node clustered database server. It was introduced in September 2011 as the mid-market offering in Oracle's family of full-stack, integrated systems the company calls engineered systems. Enterprise Edition, Oracle Real Application Clusters (RAC), or Oracle RAC One Node d1f88a83f2

data warehousing (DW), and mixed database workloads. As a d1f88a83f2 network service name (NSN): "[a] simple name for a service that resolves to a connect descriptor" For example: sales.acme.co.uk d1f88a83f2 Oracle Corporation. First released in 1979, it was among the earliest

d1f88a83f2

Automatic Storage Management Gopalakrishnan, K. McGraw Hill Professional Automatic Storage Management (ASM) is a feature provided by Oracle Corporation within the Oracle Database from release Oracle 10g (revision 1) onwards. Oracle Press (2 ed. ASM aims to simplify the management of database datafiles, control files and log files. Guide".). (10 August 2011). Oracle Database 11g Oracle Real Application Clusters Handbook. Thus DBAs do not need extra skills in specific file systems or volume managers (which usually operate at the level of the operating system). To do so, it provides tools to manage file systems and volumes directly inside the database, allowing database administrators (DBAs) to control volumes and disks with familiar SQL statements in standard Oracle environments d1f88a83f2

Oracle Net Services Since Oracle databases operate in and across a variety of software and hardware environments, Oracle Corporation supplies high-level transparent networking facilities with the intention of providing networking functionality regardless of differences in nodes and protocols. Oracle Data Guard Oracle Enterprise Manager Oracle Internet Directory Oracle RAC (real application clusters) Oracle Streams Transparent Network Substrate (TNS) Oracle Net

Services consists of sets of software developed by Oracle Corporation which enable client applications to establish and maintain network sessions with Oracle Database servers

Solaris Cluster provides services that remain available even when individual nodes or components of the cluster fail. Solaris Cluster provides two types of HA services: failover services and scalable services. Background the need for hot spares diminish Oracle AI Database runs on-premises, on Oracle engineered systems such as Oracle Exadata, on Oracle Cloud Infrastructure, and as a managed Autonomous Database service. It is also offered inside Microsoft Azure, Google Cloud, and Amazon Web Services data centers through Oracle's multicloud offerings. The current long-term release is Oracle AI Database 26ai, which was introduced in October 2025. To eliminate single points of failure, a Solaris Cluster configuration has redundant components, including multiple network connections and data storage which is multiply connected via a storage area network. Clustering software such as Solaris Cluster is a key component in a Business Continuity solution, and the Solaris Cluster Geographic Edition was created specifically to address that requirement... text, and AI vector data, all queryable through SQL or APIs.

d1f88a83f2 == Terminology == d1f88a83f2

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