

What is OpenGauss?

- A) An open-source relational database management system.
  - B) An open-source operating system.
  - C) A programming language.
  - D) The cloud computing platform.
- Answer: A) An open-source relational database management system.

Which company developed OpenGauss?

- A) Google
  - B) Microsoft
  - C) Huawei
  - D) Amazon
- Answer: C) Huawei

What type of database is OpenGauss primarily designed for?

- A) Document-oriented database
  - B) Relational database
  - C) Key-value store
  - D) Graph database
- Answer: B) Relational database

What programming language is primarily used for developing applications on OpenEuler?

- A) Java
  - B) Python
  - C) C++
  - D) Go
- Answer: B) Python

Which of the following best describes OpenEuler?

- A) An open-source cloud computing platform.
  - B) An open-source database management system.
  - C) An open-source operating system.
  - D) An open-source web server.
- Answer: C) An open-source operating system.

What is the primary programming language used for developing applications on OpenGauss?

- A) Java
- B) C

C) Python  
D) Ruby  
Answer: C) Python

Which of the following is a key feature of OpenGauss?

A) NoSQL support  
B) In-memory processing  
C) Distributed ledger technology  
D) Blockchain integration

Answer: B) In-memory processing

What is the license under which OpenEuler is distributed?

A) Apache License 2.0  
B) GNU General Public License (GPL)  
C) MIT License  
D) OpenEuler Public License

Answer: A) Apache License 2.0

Which organization oversees the development of OpenEuler?

A) The Apache Software Foundation  
B) The Linux Foundation  
C) The Open Source Initiative  
D) The OpenEuler Community

Answer: D) The OpenEuler Community

What is the primary package manager used in OpenEuler?

A) apt  
B) yum  
C) pip  
D) eopkg

Answer: B) yum

What storage engine does OpenGauss primarily use?

A) InnoDB  
B) RocksDB  
C) GaussDB  
D) MongoDB

Answer: C) GaussDB

Which of the following authentication methods does OpenGauss support?

A) LDAP  
B) OAuth  
C) Kerberos

D) JWT

Answer: A) LDAP

What is the default isolation level in OpenGauss?

A) READ COMMITTED

B) READ UNCOMMITTED

C) REPEATABLE READ

D) SERIALIZABLE

Answer: D) SERIALIZABLE

In OpenEuler, what is the default desktop environment?

A) GNOME

B) KDE Plasma

C) Xfce

D) LXQt

Answer: A) GNOME

Which packaging format does OpenEuler primarily use for software distribution?

A) RPM

B) DEB

C) Snap

D) Flatpak

Answer: A) RPM

What is the default shell in OpenEuler?

A) Bash

B) Zsh

C) Dash

D) Fish

Answer: A) Bash

What is the package manager used for installing and managing software packages in OpenGauss?

A) apt

B) yum

C) pip

D) gausspkg

Answer: D) gausspkg

Which edition of OpenGauss is designed for enterprise-level deployments with advanced features?

A) Community Edition

B) Standard Edition

C) Enterprise Edition  
D) Professional Edition  
Answer: C) Enterprise Edition

What is the default text editor in OpenEuler?

A) I came  
B) Emacs  
C) Nano  
D) Gedit  
Answer: A) I came

What is the primary filesystem used in OpenEuler?

A) Ext4  
B) XFS  
C) Btrfs  
D) ZFS  
Answer: B) XFS

What is the primary database model supported by OpenGauss?

A) Hierarchical  
B) Object-oriented  
C) Relational  
D) Document-oriented  
Answer: C) Relational

What is the default init system used by OpenEuler?

A) systemd  
B) SysVinit  
C) Upstart  
D) runit  
Answer: A) systemd

Which of the following is NOT a component of OpenEuler?

A) Eulix  
B) Eulora  
C) EulerOS  
D) EulerHub  
Answer: D) EulerHub

What is the recommended minimum RAM size for installing OpenGauss?

A) 1GB  
B) 2GB  
C) 4GB

D) 8GB

Answer: C) 4 GB

Which packaging tool is used for creating software packages in OpenEuler?

A) dpkg

B) RPM

C) tar

D) makeup

Answer: B) RPM

What is the default database engine used by OpenGauss?

A) PostgreSQL

B) MySQL

C) MariaDB

D) InnoDB

Answer: A) PostgreSQL

Which version control system is commonly used for managing OpenEuler's source code?

A) Git

B) SVN (Subversion)

C) Mercurial

D) CVS (Concurrent Versions System)

Answer: A) Git

What is the default display server protocol used by OpenEuler?

A) X11

B) Wayland

C) Mir

D) RDP (Remote Desktop Protocol)

Answer: A) X11

What is the default web browser included in OpenEuler?

A) Firefox

B) Chrome

C) Chromium

D) Epiphany (GNOME Web)

Answer: A) Firefox

Which file system does OpenEuler use by default for the root filesystem?

A) Ext4

B) XFS

C) Btrfs

D) ZFS

Answer: A) Ext4

What is the default desktop environment in OpenEuler's Server Edition?

- A) GNOME
- B) KDE Plasma
- C) Xfce
- D) LXQt

Answer: C) Xfce

Which virtualization technology is natively supported in OpenEuler?

- A) VirtualBox
- B) VMware
- C) KVM (Kernel-based Virtual Machine)
- D) Hyper-V

Answer: C) KVM (Kernel-based Virtual Machine)

What is the primary programming language used for developing the kernel in OpenEuler?

- A) C
- B) C++
- C) Assembly
- D) Rust

Answer: A) C

What is the primary mechanism used for service management and configuration in OpenEuler?

- A) systemd
- B) Upstart
- C) SysVinit
- D) runit

Answer: A) systemd

Which networking protocol is commonly used for remote administration in OpenEuler?

- A) SSH (Secure Shell)
- B) Telnet
- C) RDP (Remote Desktop Protocol)
- D) VNC (Virtual Network Computing)

Answer: A) SSH (Secure Shell)

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- B) Object-oriented
- C) Relational
- D) Document-oriented

Answer: C) Relational

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Answer: A) Firefox

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- A) Ext4
- B) XFS
- C) Btrfs
- D) ZFS

Answer: A) Ext4

What is the default firewall management tool in OpenEuler?

- A) iptables
- B) UFW (Uncomplicated Firewall)
- C) firewalld
- D) nftables

Answer: C) firewalld

What is the default display manager in OpenEuler?

- A) LightDM
- B) GDM (GNOME Display Manager)
- C) SDDM (Simple Desktop Display Manager)
- D) XDM (X Display Manager)

Answer: B) GDM (GNOME Display Manager)

What is the primary database server application used in OpenEuler?

- A) MySQL
- B) PostgreSQL
- C) MongoDB
- D) SQLite

Answer: B) PostgreSQL

Which utility is used for managing system services in OpenEuler?



- A) systemctl
- B) service
- C) sysv-rc-conf
- D) chkconfig

Answer: A) systemctl

What is the default network configuration tool in OpenEuler?

- A) ifconfig
- B) ip
- C) nmcli (NetworkManager Command-Line Interface)
- D) iwconfig

Answer: C) nmcli (NetworkManager Command-Line Interface)

Which software package format is commonly used for third-party application distribution in OpenEuler?

- A) Snap
- B) Flatpak
- C) AppImage
- D) DEB

Answer: A) Snap

What is the default text editor in the OpenEuler Server Edition?

- A) Nano
- B) I came
- C) Emacs
- D) Gedit

Answer: A) Nano

Which package provides the GNU C Library (glibc) in OpenEuler?

- A) libc6
- B) glibc
- C) libgc
- D) libc

Answer: A) libc6

What is the default display server protocol used by OpenEuler?

- A) X11
- B) Wayland
- C) Mir
- D) RDP (Remote Desktop Protocol)

Answer: A) X11

Which tool is used for managing user accounts and groups in OpenEuler?

- A) useradd
- B) passwd
- C) usermod
- D) userconfig

Answer: A) useradd

What high availability feature does OpenGauss provide for ensuring continuous database operation?

- A) Replication Slots
- B) Streaming Replication
- C) Logical Replication
- D) Synchronous Commit

Answer: B) Streaming Replication

Which data encryption method does OpenGauss support for securing sensitive information?

- A) AES (Advanced Encryption Standard)
- B) RSA (Rivest-Shamir-Adleman)
- C) MD5 (Message Digest Algorithm 5)
- D) SHA-256 (Secure Hash Algorithm 256-bit)

Answer: A) AES (Advanced Encryption Standard)

What feature in OpenGauss allows users to define policies for automatic data archiving and retention?

- A) Table Partitioning
- B) Row-Level Security
- C) Data Masking
- D) Data Retention Policy

Answer: D) Data Retention Policy

Which command is used to create a new user account in OpenGauss?

- A) CREATE USER
- B) ADD USER
- C) INSERT USER
- D) MAKE USER

Answer: A) CREATE USER

What is the default port number for client connections to an OpenGauss database server?

- A) 5432
- B) 3306
- C) 1521
- D) 27017

Answer: A) 5432

What is the default init system used in OpenEuler 20.03?

- A) systemd
- B) SysVinit
- C) Upstart
- D) runit

Answer: A) systemd

Which tool is commonly used for managing software repositories in OpenEuler?

- A) dnf
- B) apt
- C) zipper
- D) yum

Answer: D) yum

What is the primary package format used for creating software packages in OpenEuler?

- A) RPM
- B) DEB
- C) tar.gz
- D) ZIP

Answer: A) RPM

What graphical package manager is available in OpenEuler for installing and managing software?

- A) YUM Extender (yumex)
- B) Synaptic Package Manager
- C) GNOME Software Center
- D) KPackageKit

Answer: C) GNOME Software Center

Which filesystem encryption method is supported by default in OpenEuler?

- A) LUKS (Linux Unified Key Setup)
- B) BitLocker
- C) eCryptfs
- D) VeraCrypt

Answer: A) LUKS (Linux Unified Key Setup)

What is the primary indexing method used in OpenGauss for optimizing query performance?

- A) B-tree
- B) Hash
- C) R-tree
- D) Quadtree

Answer: A) B-tree

Which authentication method does OpenGauss use by default for securing database access?

- A) LDAP
- B) Kerberos
- C) PAM (Pluggable Authentication Modules)
- D) SCRAM (Salted Challenge Response Authentication Mechanism)

Answer: D) SCRAM (Salted Challenge Response Authentication Mechanism)

What is the default storage mechanism used by OpenGauss for managing tables and indexes ?

- A) InnoDB
- B) RocksDB
- C) GaussDB
- D) MongoDB

Answer: C) GaussDB

In OpenEuler, what is the default package manager for handling software installation and updates?

- A) apt
- B) yum
- C) dnf
- D) zipper

Answer: B) yum

Which desktop environment is the default choice in OpenEuler's Workstation Edition?

- A) GNOME
- B) KDE Plasma
- C) Xfce
- D) LXQt

Answer: A) GNOME

What is the primary purpose of the OpenEuler Developer Edition?

- A) Server deployment
- B) Application development
- C) System administration
- D) Data analytics

Answer: B) Application development

Which filesystem is commonly used in OpenEuler for managing large-scale data storage?

- A) Ext4
- B) XFS
- C) Btrfs
- D) ZFS

Answer: B) XFS

What is the default database engine used by OpenGauss?

- A) MySQL
- B) PostgreSQL
- C) MongoDB
- D) SQLite

Answer: B) PostgreSQL

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- C) sysv-rc-conf
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- D) ZIP

Answer: A) RPM

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- C) SDDM (Simple Desktop Display Manager)
- D) XDM (X Display Manager)

Answer: B) GDM (GNOME Display Manager)

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- B) BitLocker

- C) eCryptfs
- D) VeraCrypt

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- B) SVN (Subversion)
- C) Mercurial
- D) CVS (Concurrent Versions System)

Answer: A) Git

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- B) Chrome
- C) Chromium
- D) Epiphany (GNOME Web)

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- D) ZFS

Answer: A) Ext4

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- B) UFW (Uncomplicated Firewall)
- C) firewalld
- D) nftables

Answer: C) firewalld

What is the primary package manager used in OpenGauss?

- A) apt
- B) yum
- C) pip
- D) gausspkg

Answer: D) gausspkg

Which utility is used for managing user accounts and groups in OpenEuler?

- A) useradd
- B) passwd
- C) usermod
- D) userconfig

Answer: A) useradd

What is the primary mechanism used for service management and configuration in OpenEuler?

- A) systemd
- B) Upstart
- C) SysVinit
- D) runit

Answer: A) systemd

What is the default display server protocol used by OpenEuler?

- A) X11
- B) Wayland
- C) Mir
- D) RDP (Remote Desktop Protocol)

Answer: A) X11

What is the primary database engine used by OpenGauss?

- A) PostgreSQL
- B) MySQL
- C) MariaDB
- D) InnoDB

Answer: A) PostgreSQL

Which packaging tool is used for creating software packages in OpenEuler?

- A) dpkg
- B) RPM
- C) tar
- D) makepkg

Answer: B) RPM

Which virtualization technology is natively supported in OpenEuler?

A) VirtualBox  
B) VMware  
C) KVM (Kernel-based Virtual Machine)  
D) Hyper-V  
Answer: C) KVM (Kernel-based Virtual Machine)

What is the default text editor in the OpenEuler Server Edition?

A) Nano  
B) I came  
C) Emacs  
D) Gedit  
Answer: A) Nano

What is the default shell in OpenEuler?

A) Bash  
B) Zsh  
C) Dash  
D) Fish  
Answer: A) Bash

Which file system does OpenEuler use by default for the root filesystem?

A) Ext4  
B) XFS  
C) Btrfs  
D) ZFS  
Answer: A) Ext4

What is the default database server application used in OpenEuler?

A) MySQL  
B) PostgreSQL  
C) MongoDB  
D) SQLite  
Answer: B) PostgreSQL

What is the default isolation level in OpenGauss?

A) READ COMMITTED  
B) READ UNCOMMITTED  
C) REPEATABLE READ



D) SERIALIZABLE

Answer: D) SERIALIZABLE

What is the default network configuration tool in OpenEuler?

A) ifconfig

B) ip

C) nmcli (NetworkManager Command-Line Interface)

D) iwconfig

Answer: C) nmcli (NetworkManager Command-Line Interface)

Which software package format is commonly used for third-party application distribution in OpenEuler?

A) Snap

B) Flatpak

C) AppImage

D) DEB

Answer: A) Snap

What are the three levels of certification available in the Huawei certification system?

A) HCIA, HCIP, HCIE

B) Basic, Intermediate, Advanced

C) Foundation, Professional, Expert

D) Entry-level, Mid-level, Senior-level

Answer: A) HCIA, HCIP, HCIE

What is the focus of the HCIA -openEuler certification?

A) Cloud computing technologies

B) Networking and cybersecurity

C) Linux technologies and openEuler OS

D) Database management

Answer: C) Linux technologies and openEuler OS

What does HCIA-openEuler certification cover?

A) Cloud architecture and services

B) Hardware troubleshooting

C) Introduction to openEuler OS, software installation, and basic operations

D) Web development frameworks

Answer: C) Introduction to openEuler OS, software installation, and basic operations

What is the recommended minimum RAM size for the lab environment in HCIA-openEuler training?

- A) 8GB
- B) 16GB
- C) 4GB
- D) 32GB

Answer: B) 16GB

What are the topics covered in Exercise 1 of the lab guide?

- A) Basic CLI operations
- B) Text editing in openEuler
- C) User and permission management
- D) Installing the openEuler OS

Answer: D) Installing the openEuler OS

Which command is used to create a VM in Exercise 1?

- A) sudo apt-get install vm-create
- B) create-vm --name openEuler-VM
- C) qemu-img create -f qcow2 openEuler-VM.img 20G
- D) virt-install --name openEuler-VM --memory 2048 --disk size=20

Answer: D) virt-install --name openEuler-VM --memory 2048 --disk size=20

What is the purpose of Exercise 2 in the lab guide?

- A) To configure network settings
- B) To practice basic CLI operations on the openEuler OS
- C) To install additional software packages
- D) To create user accounts

Answer: B) To practice basic CLI operations on the openEuler OS

What is OpenEuler?

- (a) A programming language.
- (b) An open source Linux distribution.
- © A relational database.
- (d) An operating system for mobile devices.

Answer: (b) An open source Linux distribution.

What is the main focus of OpenEuler?

- (a) Mobile application development.
- (b) Server performance improvements.
- © Internet of Things (IoT).
- (d) Cloud computing.

Answer: (d) Cloud computing.

Who is behind the development of OpenEuler?

- (a) Microsoft.

(b) Huawei.

© Google.

(d) Oracle.

Answer: (b) Huawei.

What is openGauss?

(a) An operating system.

(b) A relational database.

© A programming language.

(d) A web development framework.

Answer: (b) A relational database.

What architecture does openGauss use?

(a) Client-server.

(b) Monolithic.

© Microservices.

(d) P2P (peer-to-peer).

Answer: (a) Client-server.

What are the deployment methods supported by openGauss?

(a) Single server deployment only.

(b) Deployment on multiple servers with replication.

© Deployment in Docker containers.

(d) Public cloud deployment.

Answer: (b) Deployment on multiple servers with replication.

What is openGauss Light?

(a) A lighter version of openGauss.

(b) A monitoring tool.

© An operating system.

(d) An integrated development environment (IDE).

Answer: (a) A lighter version of openGauss.

What is the username created by default when installing openGauss?

(a) root.

(b) postgres.

© openGauss.

(d) admin.

Answer: © openGauss.

What type of high availability does openGauss support?

(a) Failover cluster.

(b) Load balancing.

© Synchronous replication.

(d) Cache cluster.

Answer: © Synchronous replication.

What is the main goal of the openGauss community?

(a) Create a mobile-only database.

(b) Develop an open source operating system.

© Collaborate with developers to create an open source database community.

(d) Create an exclusive database for the Internet of Things (IoT).

Answer: © Collaborate with developers to create an open source database community.

What is OpenEuler's main programming language?

(a) Java.

(b) Python.

© C++.

(d) Go.

Answer: (d) Go.

What is the OpenGauss Kernel?

(a) A component of the operating system.

(b) The core of the OpenGauss database.

© A library of mathematical functions.

(d) A command interpreter.

Answer: (b) The core of the OpenGauss database.

What are the types of indices supported by OpenGauss?

(a) B-tree indices only.

(b) B-tree indices and hash indices.

© B-tree indices, hash indices and GIN indices.

(d) B-tree indices, hash indices and R-tree indices.

Answer: © B-tree indexes, hash indexes and GIN indexes.

What is OpenGauss Monitor?

(a) A performance monitoring tool.

(b) An integrated development environment (IDE).

© An operating system.

(d) An application server.

Answer: (a) A performance monitoring tool.

What is the purpose of OpenGauss Light?

(a) Provide a faster version of OpenGauss.

(b) Simplify database administration.

© Reduce resource consumption.

(d) Provide an open source alternative to Oracle Database.

Answer: (b) Simplify database administration.

What is OpenGauss Expert?

(a) A cybersecurity expert.

(b) A business consultant.

© A query optimization tool.

(d) A technical support service.

Answer: © A query optimization tool.

What is the default OpenGauss storage engine?

(a) InnoDB.

(b) MyISAM.

© PostgreSQL.

(d) GaussDB.

Answer: (d) GaussDB.

What is OpenGauss Studio?

(a) Video editing software.

(b) An integrated development environment (IDE) for programmers.

© A database modeling tool.

(d) A set of tools for database management.

Answer: (d) A set of tools for database management.

What is the name of the main OpenGauss configuration file?

(a) my.cnf.

(b) postgresql.conf.

© gaussdb.conf.

(d) openGauss.conf.

Answer: © gaussdb.conf.

What is OpenGauss Heterogeneous Replication?

(a) A technique for replicating data between different databases.

(b) A data replication technique between heterogeneous servers.

© A data replication technique between PostgreSQL databases.

(d) A data replication technique between MySQL databases.

Answer: (a) A data replication technique between different databases.

What is the key feature of OpenGauss that makes it suitable for high-performance workloads?

A) Distributed transaction support

B) In-memory processing

C) Horizontal scalability

D) Eventual consistency

Answer: B) In-memory processing

What is the primary programming language used to write extensions and custom functions in OpenGauss?

- A) Java
- B) Python
- C) C
- D) Ruby

Answer: C) C

What is OpenGauss Cloud?

- A) A Kubernetes-based cloud computing platform
- B) An OpenGauss implementation optimized for cloud environments
- C) A cloud storage service provided by Huawei
- D) A distributed NoSQL database

Answer: B) An OpenGauss implementation optimized for cloud environments

What is the primary storage mechanism used by OpenGauss to ensure high availability and disaster recovery?

- A) GaussDB
- B) InnoDB
- C) RocksDB
- D) MongoDB

Answer: A) GaussDB

What is OpenGauss Data Masking?

- A) A data encryption technique at rest
- B) A feature for masking sensitive data in real time
- C) A data compression technique for storage optimization
- D) A tool for monitoring database performance

Answer: B) A feature to mask sensitive data in real time

What is the main objective of the OpenEuler project?

- A) Develop an operating system for mobile devices
- B) Create a Linux distribution optimized for gaming
- C) Provide a container-based cloud computing platform
- D) Develop an open source Linux distribution for servers and workstations

Answer: D) Develop an open source Linux distribution for servers and workstations

What is OpenEuler Developer Edition?

- A) A special edition of OpenEuler for software developers
- B) A cloud-based application development tool
- C) A lightweight Linux distribution for embedded devices

D) An edition of OpenEuler with advanced cybersecurity features

Answer: A) A special edition of OpenEuler for software developers

What are the main objectives of OpenEuler Community Edition?

A) Provide long-term support for enterprise servers

B) Offer a modern desktop experience for home users

C) Facilitate collaboration and open source software development

D) Implement advanced virtualization technologies for cloud environments

Answer: C) Facilitate collaboration and open source software development

What is the default package management system used by OpenEuler?

A) RPM

B) DEB

C) APT

D) YUM

Answer: A) RPM

What is the OpenEuler Mirror Site?

A) A cloud storage service for data backups

B) A mirror software repository that hosts OpenEuler packages

C) A network monitoring tool for analyzing data traffic

D) A source code sharing platform for developers software

Answer: B) A mirror software repository that hosts OpenEuler packages

What is the main purpose of the Row-Level Security feature in OpenGauss?

A) Encrypt sensitive data stored in the database

B) Ensure data integrity through foreign key constraints

C) Control access to data based on rules defined for each row

D) Perform automatic backup of specific tables at regular intervals

Answer: C) Control access to data based on rules defined for each row

What is OpenGauss SQL Tuner?

A) A tool for monitoring operating system performance

B) A graphical interface for writing complex SQL queries

C) A set of pre-optimized queries to improve database performance

D) A utility for analyzing SQL queries and recommending adjustments to performance optimization

Answer: D) A utility for analyzing SQL queries and recommending adjustments for performance optimization

What is the purpose of OpenGauss Data Guard?

A) Protect data from loss or corruption through asynchronous replication

B) Create backup copies of database data at regular intervals

- C) Monitor and analyze network traffic between OpenGauss clients and servers
  - D) Implement application firewalls to strengthen database security
- Answer: A) Protect data from loss or corruption through asynchronous replication

What is the purpose of OpenGauss Audit?

- A) Perform regular security audits on the operating system
- B) Record user activities and database operations for compliance and security purposes
- C) Create backup copies of database logs at regular intervals
- D) Monitor and analyze performance of the database in real time

Answer: B) Record user activities and database operations for compliance and security purposes

What is the OpenGauss Global Transaction Identifier (GTID)?

- A) A unique identifier assigned to each transaction in the database
- B) An encryption key used to protect sensitive data during transmission
- C) An access control mechanism based on rules defined by the administrator
- D) A set of guidelines to optimize the performance of distributed transactions

Answer: A) A unique identifier assigned to each transaction in the database

What is the main default desktop environment offered by OpenEuler?

- A) GNOME
- B) KDE Plasma
- C) Xfce
- D) LXQt

Answer: A) GNOME

What is the OpenEuler Package Hub?

- A) A source code sharing platform for developers
- B) A community software repository for additional OpenEuler-compatible packages
- C) A tool for creating and managing isolated development environments
- D) A cloud hosting service for OpenEuler applications

Answer: B) A community software repository for additional OpenEuler-compatible packages

What is the main purpose of the OpenEuler Security Hardening Guide?

- A) Provide guidelines to protect the operating system against security threats
  - B) Develop new security features for the next version of OpenEuler
  - C) Analyze security vulnerabilities in third-party applications and offer solutions
  - D) Implement encryption techniques to protect stored sensitive data in the system
- Answer: A) Provide guidelines for protecting the operating system against security threats

What is OpenEuler Cloud Edition?

- A) A special edition of OpenEuler optimized for public cloud environments
- B) A cloud computing service offered by Huawei



- C) A set of tools for managing hybrid cloud infrastructures
- D) A container-based application development platform

Answer: A ) A special edition of OpenEuler optimized for public cloud environments

What is the default file system used by OpenEuler for data storage volumes?

- A) Ext4
- B) XFS
- C) Btrfs
- D) ZFS

Answer: B) XFS

What is the main difference between OpenEuler and other Linux distributions such as Ubuntu and Fedora?

- A) OpenEuler is a distribution exclusively for servers, not offering support for desktop environments.
- B) OpenEuler is developed by Huawei and has a special focus on integration with Huawei products and services.
- C) OpenEuler is a rolling release distribution, with continuous updates and no stable versions.
- D) OpenEuler is based on the macOS kernel, making it exclusive to Apple hardware.

Answer: B) OpenEuler is developed by Huawei and has a special focus on integration with Huawei products and services.

What is "EulerOS" in relation to OpenEuler?

- A) An edition of OpenEuler designed specifically for supercomputers.
- B) A virtualization tool that allows you to run multiple OpenEuler instances on a single server.
- C) A separate Linux distribution that shares technologies and features with OpenEuler.
- D) A standard graphical user interface (GUI) offered by OpenEuler.

Answer: C) A separate Linux distribution that shares technologies and features with OpenEuler.

What is the "OpenEuler Community Repository"?

- A) A repository maintained by Huawei that contains only officially supported software.
- B) An online forum where the OpenEuler community can discuss and resolve issues.
- C) A place where the community can submit and maintain additional software packages for OpenEuler.
- D) A source code analysis tool that checks compliance with OpenEuler coding standards.

Answer: C) A place where the community can submit and maintain additional software packages for OpenEuler.

Which of the following best describes the function of the "GaussDB Kernel" component in OpenGauss?

- A) Manage the OpenGauss graphical user interface (GUI).
- B) Implement the data storage and retrieval mechanism.
- C) Provide security features such as access control and encryption.
- D) Perform query optimizations to improve database performance.

Answer: B) Implement the data storage and retrieval mechanism.

What is "OpenGauss Autonomics"?

- A) A functionality that allows the automation of administrative tasks in the database.
- B) A programming language interface for developing applications in OpenGauss.
- C) A security module that protects against SQL injection attacks.
- D) A monitoring tool to track operating system performance.

Answer: A) A functionality that allows the automation of administrative tasks in the database.

What is the main purpose of the OpenEuler project?

- A) Develop a new programming language.
- B) Create an exclusive operating system for mobile devices.
- C) Build a community around an open source Linux distribution.
- D) Offer cloud computing services to companies.

Answer: C) Build a community around an open source Linux distribution.

What differentiates EulerOS from OpenEuler?

- A) EulerOS is a commercial version of OpenEuler.
- B) EulerOS is an older version of OpenEuler.
- C) EulerOS is a trial version of OpenEuler.
- D) EulerOS is a separate project, unrelated to OpenEuler.

Answer: A) EulerOS is a commercial version of OpenEuler.

What is the "OpenEuler Community Repository"?

- A) An official repository maintained by Huawei.
- B) An online forum for discussions about OpenEuler.
- C) A place for the community to contribute additional software packages.
- D) A source code analysis tool for developers.

Answer: C) A place for the community to contribute additional software packages.

What is the main purpose of the "GaussDB Kernel" in OpenGauss?

- A) Manage the graphical user interface (GUI).
- B) Implement the data storage mechanism.
- C) Provide security services for the database.

D) Optimize queries to improve performance.

Answer: B) Implement the data storage mechanism.

What is "OpenGauss Autonomics"?

- A) A feature to automate administrative tasks.
- B) A component for application development.
- C) A performance monitoring tool.
- D) A security feature to protect against cyber threats.

Answer: A) A functionality to automate administrative tasks.

What is the main objective of the OpenEuler project?

- A) Develop an operating system for mobile devices.
- B) Create an exclusive Linux distribution for servers.
- C) Build a community around an open source Linux distribution.
- D) Develop an open source programming language.

Answer: C) Build a community around an open source Linux distribution.

What differentiates EulerOS from OpenEuler?

- A) EulerOS is a commercial version of OpenEuler.
- B) EulerOS is an older version of OpenEuler.
- C) EulerOS is a trial version of OpenEuler.
- D) EulerOS is a separate project, unrelated to OpenEuler.

Answer: A) EulerOS is a commercial version of OpenEuler.

What is OpenEuler's main programming language?

- A) Python
- B) Go
- C) C++
- D) Java

Answer: B) Go

What is the name of OpenEuler's default package manager?

- A) yum
- B) apt
- C) dnf
- D) zipper

Answer: A) yum

What is the "OpenEuler Community Repository"?

- A) An official repository maintained by Huawei.
- B) An online forum for discussions about OpenEuler.
- C) A place for the community to contribute additional software packages.
- D) A source code analysis tool for developers.

Answer: C) A place for the community to contribute additional software packages.

What is the main focus of OpenEuler Developer Edition?

- A) Development of web applications.
- B) Mobile application development.
- C) Development of embedded systems.
- D) Software development and testing.

Answer: D) Software development and testing.

What is "openEuler Workstation Edition"?

- A) A version aimed at servers.
- B) An edition for application development.
- C) A specific distribution for desktop computers.
- D) An experimental version of OpenEuler.

Answer: C) A specific distribution for desktop computers.

What is OpenEuler's default windowing system?

- A) KDE Plasma
- B) GNOME
- C) Xfce
- D) LXQt

Answer: B) GNOME

What is the default file system used by OpenEuler?

- A) Ext4
- B) XFS
- C) Btrfs
- D) ZFS

Answer: A) Ext4

What is "OpenEuler Package Manager"?

- A) A tool for managing third-party software.

- B) A configuration management system.
- C) A utility for installing and updating software packages.
- D) A graphical interface for system management.

Answer: C) A utility for installing and updating software packages.

What are the three certification levels available in the Huawei certification system?

- A) HCIA, HCIP, HCIE
- B) Basic, Intermediate, Advanced
- C) Foundation, Professional, Expert
- D) Entry level, Mid level, Senior level

Answer: A) HCIA, HCIP, HCIE

What does HCIA-openEuler cover?

- A) Cloud architecture and services
- B) Hardware troubleshooting
- C) Introduction to openEuler OS, software installation and basic operations
- D) Web development frameworks

Answer: C) Introduction to openEuler OS, software installation and basic operations

What is the objective main of HCIA-openEuler?

- A) Cloud computing technologies
- B) Networking and cybersecurity
- C) Linux and openEuler OS technologies
- D) Database management

Answer: C) Linux and openEuler OS technologies

What is the recommended RAM size for the lab environment in training HCIA-openEuler?

- A) 8 GB
- B) 16 GB
- C) 4 GB
- D) 32 GB

Answer: B) 16 GB

What does Exercise 2 in the HCIA-openEuler lab guide aim to do?

- A) Configure network settings
- B) Practice basic CLI operations in openEuler OS
- C) Install additional software packages
- D) Create user accounts

Answer: B) Practice basic CLI operations in openEuler OS

Which command is used to create a new user account in openEuler?

- A) CREATE USER
- B) ADD USER
- C) INSERT USER
- D) MAKE USER

Answer: A) CREATE USER

What is the default port number for client connections to an SSH server?

- A) 20
- B) 21
- C) 22
- D) 23

Answer: C) 22

What is the main purpose of OpenEuler security editing?

- A) Offer ethical hacking tools.
- B) Provide a secure development environment.
- C) Protect against cyber threats.
- D) Implement advanced encryption.

Answer: C) Protect against cyber threats.

What is the "OpenEuler Security Team"?

- A) A group of ethical hackers.
- B) A team dedicated to developing secure software.
- C) A team responsible for identifying and correcting security vulnerabilities.
- D) A community of users interested in cybersecurity.

Answer: C) A team responsible for identifying and correcting security vulnerabilities.

What is the main network protocol used for secure remote access to OpenEuler?

- A) FTP
- B) Telnet
- C) SSH
- D) SNMP

Answer: C) SSH

Which database model is primarily supported by OpenGauss?

- A) Hierarchical
- B) Object-oriented
- C) Relational
- D) Document-oriented

Answer: C) Relational

What is the default authentication method used by OpenGauss to secure access to the database?

- A) LDAP
- B) Kerberos
- C) PAM (Pluggable Authentication Modules)
- D) SCRAM (Salted Challenge Response Authentication Mechanism)

Answer: D) SCRAM (Salted Challenge Response Authentication Mechanism)

What is the default port number for client connections to a server OpenGauss database?

- A) 5432
- B) 3306
- C) 1521
- D) 27017

Answer: A) 5432

Which feature in OpenGauss allows users to set policies for automatic data archiving and retention?

- A) Table Partitioning
- B) Row Level Security
- C) Data Hiding
- D) Data Retention Policy

Answer: D) Data Retention Policy

Which command is used to create a new user account in OpenGauss?

- A) CREATE USER
- B) ADD USER
- C) INSERT USER
- D) MAKE USER

Answer: A) CREATE USER

What is the default text editor in OpenGauss Server Edition?

- A) Nano
- B) Vi
- C) Emacs
- D) Gedit

Answer: A) Nano

What is the default display server protocol used by OpenGauss?

- A) X11
- B) Wayland
- C) Mir
- D) RDP (Remote Desktop Protocol)

Answer: A) X11

What is the primary packaging format used to create software packages in OpenGauss?

- A) dpkg
- B) RPM
- C) tar
- D) makeup

Answer: B) RPM

What virtualization technology is natively supported in OpenGauss?

- A) VirtualBox
- B) VMware
- C) KVM (Kernel-based Virtual Machine)
- D) Hyper-V

Answer: C) KVM (Kernel-based Virtual Machine)

What is the purpose of OpenGauss Developer Edition?

- A) Server deployment
- B) Application development
- C) Systems administration
- D) Data analysis

Answer: B) Application development

Which file system is commonly used in OpenGauss for large-scale data storage?

- A) Ext4
- B) XFS
- C) Btrfs
- D) ZFS

Answer: B) XFS

What is the primary package management system used in OpenGauss?

- A) apt
- B) yum
- C) pip
- D) gausspkg

Answer: D) gausspkg



Which edition of OpenGauss is designed for enterprise-grade deployments with advanced features?

- A) Community Edition
- B) Standard Edition
- C) Enterprise Edition
- D) Professional Edition

Answer: C) Enterprise Edition

Which data encryption method does OpenGauss support to protect sensitive information?

- A) AES (Advanced Encryption Standard)
- B) RSA (Rivest-Shamir-Adleman)
- C) MD5 (Message Digest Algorithm 5)
- D) SHA-256 (Secure Hash Algorithm 256-bit)

Answer: A) AES (Advanced Encryption Standard)

Which feature in OpenGauss allows users to set policies for automatic data archiving and retention?

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Answer: D) Data Retention Policy

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- D) MAKE USER

Answer: A) CREATE USER

What is the default port number for client connections to an OpenGauss database server?

- A) 5432
- B) 3306
- C) 1521
- D) 27017

Answer: A) 5432

What is the key feature of OpenGauss that allows users to set policies for automatic data archiving and retention?

- A) Table Partitioning
- B) Row Level Security
- C) Data Hiding
- D) Data Retention Policy

Answer: D) Data Retention Policy

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- B) Vi
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Answer: A) Nano

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- B) VMware
- C) KVM (Kernel-based Virtual Machine)
- D) Hyper-V

Answer: C) KVM (Kernel-based Virtual Machine)

What is the purpose of OpenGauss Developer Edition?

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- D) Data analysis

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- D) ZFS

Answer: B) XFS

What is the primary package management system used in OpenGauss?

- A) apt
- B) yum
- C) pip
- D) gausspkg

Answer: D) gausspkg

Which edition of OpenGauss is designed for enterprise-grade deployments with advanced features?

- A) Community Edition
- B) Standard Edition
- C) Enterprise Edition
- D) Professional Edition

Answer: C) Enterprise Edition

What is the most restrictive transactional isolation standard supported by OpenGauss?

- A) READ COMMITTED
- B) READ UNCOMMITTED
- C) REPEATABLE READ
- D) SERIALIZABLE

Answer: D) SERIALIZABLE

What is the replication mechanism supported by OpenGauss to ensure high availability?

- A) Replication Slots
- B) Continuous Replication
- C) Logical Replication
- D) Synchronous Commitment

Answer: B) Continuous Replication

What is the data encryption method used by OpenGauss to secure communication between the client and the server?

- A) SSL/TLS
- B) SSH
- C) AES
- D) RSA

Answer: A) SSL/TLS

What is the command used to create a new database in OpenGauss?

- A) CREATE DATABASE
- B) ADD DATABASE
- C) INSERT DATABASE
- D) MAKE DATABASE

Answer: A) CREATE DATABASE

What is the high-performance storage engine used by OpenGauss to optimize read queries?

- A) InnoDB
- B) RocksDB
- C) GaussDB
- D) MongoDB

Answer: C) GaussDB

What is the main programming language used to develop applications on OpenGauss?

- A) Java
- B) C
- C) Python
- D) Ruby

Answer: C) Python

What is the feature of OpenGauss that allows users to split large tables into smaller parts for better performance?

- A) Table Partitioning
- B) Table Replication
- C) Table Fragmentation
- D) Table Distribution

Answer: A) Table Partitioning

What is the default query language used to interact with OpenGauss?

- A) SQL
- B) NoSQL
- C) JSON
- D) XML

Answer: A) SQL

What is the backup method recommended by OpenGauss to protect database data?

- A) Hot Backup
- B) Cold Backup
- C) Snapshot Backup
- D) Incremental Backup

Answer: D) Incremental Backup

What is the purpose of the pg\_dump utility in OpenGauss?

- A) Restore databases
- B) Back up databases
- C) Create new databases
- D) View database statistics

Answer: B) Back up databases

What is the data encryption standard used by OpenGauss to protect user passwords?

- A) MD5
- B) SHA-256
- C) AES
- D) RSA

Answer: A) MD5

What is the consistency level used by OpenGauss to ensure that transactions occur according to defined rules?

- A) Strong Consistency
- B) Weak Consistency
- C) Eventual Consistency
- D) Linearizable Consistency

Answer: A) Strong Consistency

Which OpenGauss component is responsible for managing the execution of queries and transactions?

- A) Transaction Manager
- B) Query Optimizer
- C) Storage Engine
- D) Communication Protocol

Answer: B) Query Optimizer

What is the log storage mechanism used by OpenGauss to ensure data recovery in case of failure?

- A) WAL (Write-Ahead Logging)
- B) Redo Log
- C) Undo Log
- D) Checkpoint

Answer: A) WAL (Write-Ahead Logging)

What is the command used to grant access permissions to objects in the database in OpenGauss?

- A) GRANT
- B) ALLOW
- C) PERMIT
- D) ACCESS

Answer: A) GRANT

What is the data storage format used by OpenGauss to represent data on disk?

- A) CSV

- B) JSON
- C) Binary
- D) XML

Answer: C) Binary

What is the communication protocol used by OpenGauss to exchange data between clients and servers?

- A) HTTP
- B) TCP/IP
- C) UDP
- D) FTP

Answer: B) TCP/IP

What is the command line tool used to interact with the OpenGauss server?

- A) psql
- B) sqlplus
- C) mysql
- D) sqlite

Answer: A) psql

What is the mechanism used by OpenGauss to guarantee referential integrity between tables?

- A) Primary Key Constraints
- B) Foreign Key Constraints
- C) Triggers
- D) Uniqueness Indexes

Answer: B) Foreign Key Constraints

What is the function of the pg\_ctl utility in OpenGauss?

- A) Manage database clusters
- B) Create new databases
- C) Perform SQL queries
- D) Monitor server activity

Answer: A) Manage database clusters

What is the correct syntax to start the OpenGauss server using the utility pg\_ctl?

- A) pg\_ctl start
- B) start\_pgctl
- C) start\_server
- D) pg\_start

Answer: A) pg\_ctl start

What is the correct way to stop the OpenGauss server using the pg\_ctl utility?

- A) pg\_ctl stop

- B) stop\_pgctl
- C) stop\_server
- D) pg\_stop

Answer: A) pg\_ctl stop

What is the command used to list all existing databases on the OpenGauss server?

- A) SHOW DATABASES;
- B) LIST DATABASES;
- C) \l
- D) SELECT \* FROM pg\_databases;

Answer: C) \l

What is the SQL command used to create a new table in OpenGauss?

- A) CREATE TABLE
- B) NEW TABLE
- C) ADD TABLE
- D) MAKE TABLE

Answer: A) CREATE TABLE

What is the SQL command to add a new column to an existing table in OpenGauss?

- A) ADD COLUMN
- B) ALTER TABLE
- C) CREATE COLUMN
- D) MODIFY COLUMN

Answer: B) ALTER TABLE

What is the command used to insert data into a table in OpenGauss?

- A) INSERT INTO
- B) ADD INTO
- C) UPDATE
- D) SET VALUES

Answer: A) INSERT INTO

What is the operator used to specify equality in a WHERE clause in OpenGauss?

- A) ==
- B) =
- C) <>
- D) LIKE

Answer: B) =

What is the SQL command used to retrieve data from a table in OpenGauss?

- A) FETCH
- B) SELECT

C) GET  
D) RETRIEVE  
Answer: B) SELECT

What is the SQL command used to update data in a table in OpenGauss?

A) UPDATE  
B) MODIFY  
C) ALTER  
D) CHANGE  
Answer: A) UPDATE

What is the SQL command used to delete records from a table in OpenGauss?

A) REMOVE  
B) DELETE  
C) ERASE  
D) DROP  
Answer: B) DELETE

What is the data type used to store monetary values in OpenGauss?

A) MONEY  
B) CURRENCY  
C) DECIMAL  
D) FLOAT  
Answer: A) MONEY

What is the data type used to store variable length text values in OpenGauss?

A) VARCHAR  
B) TEXT  
C) STRING  
D) CHAR  
Answer: A) VARCHAR

What is the data type used to store date and time values in OpenGauss?

A) TIME  
B) TIMESTAMP  
C) DATETIME  
D) DATE  
Answer: B) TIMESTAMP

What is the SQL function used to calculate the average of a numeric column in OpenGauss?

A) AVG()  
B) MEAN()  
C) AVERAGE()



D) MEDIAN()

Answer: A) AVG()

What is the SQL function used to find the total number of records in a table in OpenGauss?

A) TOTAL()

B) COUNT()

C) SUM()

D) NUMBER()

Answer: B) COUNT()

What is the SQL function used to find the maximum value in a column in OpenGauss?

A) MAX()

B) TOP()

C) HIGHEST()

D) LARGEST()

Answer: A) MAX()

What is the SQL function used to find the minimum value in a column in OpenGauss?

A) MIN()

B) BOTTOM()

C) SMALLEST()

D) LOWEST()

Answer: A) MIN()

What is the SQL function used to calculate the sum of values in a column in OpenGauss?

A) SUM()

B) TOTAL()

C) ADD()

D) PLUS()

Answer: A) SUM()

What is the SQL function used to round a number in OpenGauss?

A) ROUND()

B) CEIL()

C) FLOOR()

D) TRUNCATE()

Answer: A) ROUND()

What is the SQL function used to concatenate text values in OpenGauss?

A) CONCAT()

B) JOIN()

C) MERGE()

D) COMBINE()

Answer: A) CONCAT()

What is the SQL function used to convert a string to lowercase in OpenGauss?

- A) TOUPPER()
- B) LOWER()
- C) LCASE()
- D) UPPERCASE()

Answer: B) LOWER()

What is the SQL function used to convert a string to uppercase in OpenGauss?

- A) TOLOWER()
- B) UPPER()
- C) UCASE()
- D) CAPITALIZE()

Answer: B) UPPER()

What is the SQL function used to extract a part of a string in OpenGauss?

- A) EXTRACT()
- B) SUBSTRING()
- C) SLICE()
- D) CUT()

Answer: B) SUBSTRING()

What is the SQL function used to calculate the difference between two dates in OpenGauss?

- A) DATEDIFF()
- B) DATE\_DIFF()
- C) DIFF\_DATE()
- D) DATE\_DIFFERENCE()

Answer: A) DATEDIFF()

What is the SQL function used to obtain the day of the month of a date in OpenGauss?

- A) DAY()
- B) MONTH()
- C) YEAR()
- D) DATEPART()

Answer: A) DAY()

What is the SQL function used to obtain the month of a date in OpenGauss?

- A) DAY()
- B) MONTH()
- C) YEAR()
- D) DATEPART()

Answer: B) MONTH()

What is the SQL function used to obtain the year of a date in OpenGauss?

- A) DAY()
  - B) MONTH()
  - C) YEAR()
  - D) DATEPART()
- Answer: C) YEAR()

What is the SQL function used to find the difference between two numeric values in OpenGauss?

- A) DIFF()
  - B) SUB()
  - C) SUBTRACT()
  - D) MINUS()
- Answer: B) SUB()

What is the SQL function used to obtain the absolute value of a number in OpenGauss?

- A) ABS()
  - B) ABSOLUTE()
  - C) VALUE()
  - D) POSITIVE()
- Answer: A) ABS()

What is the SQL function used to generate random numbers in OpenGauss?

- A) RAND()
  - B) RANDOM()
  - C) RND()
  - D) RANDOM\_NUMBER()
- Answer: B) RANDOM()