

SOUG

Espresso

Erste Erfahrungen mit Oracle 23ai

Dani Schnider



About me



Dani Schneider

- Working for Callista
- Oracle ACE Director
- Member of Symposium 42
- Hobby: Craft Beer Brewing



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Timeline Oracle 23c/23ai *

- June 2022: Connor McDonald @ Kscope
- September 2022: Gerald Venzl @ DOAG
- November 2022: Attending Beta Program 23c
- April 2023: Oracle Database 23c Free – Developer Release



- May 2024: Announcement of Oracle Database 23ai
- *On-premises versions of Oracle Database 23ai for Linux (OL & RHEL 8/9) and Windows will be out **shortly** with other platforms rolling out **over the coming months**. For further details please check the Oracle Support note Doc ID 742060.1*

Previously live

ORACLE

AI + Converged Data:
Oracle's Strategy for
Data Management

with Larry Ellison and Juan Loaiza

00:02

0:00

1x CC

Oracle Database and AI: Global Strategy Announcement
Event by Oracle
Thu, May 2, 2024, 6:00 PM (your local time)
Robert Marz and 7,215 other attendees

Share

Oracle Database 23ai Free – Docker Container Images

The screenshot shows the OCI website's "Installing Oracle Database 23ai Free" page. It features a navigation bar with "OCI" and various links. A sidebar on the left lists "Get started topics" including "Oracle Database Free Release Quick Start", "Installing Oracle Database 23ai Free", and "Connecting to Oracle Database Free". The main content is organized into sections for different operating systems:

- Docker/Podman**: Includes a "Download" link to "Oracle Container Registry" and "Notes" with the command: `docker pull container-registry.oracle.com/database/free:latest`.
- Oracle VM VirtualBox**: Lists a file named "Oracle_Database_23ai_Free_Developer.ova" with its SHA256sum and size. "Notes" instruct users to import the .ova file and refer to the Oracle VM VirtualBox Appliance for requirements.
- Oracle Linux 8**: Lists a file named "oracle-database-free-23ai-1.0-1.el8.x86_64.rpm" with its SHA256sum and size. "Notes" provide commands: `Run dnf install -y oracle-database-free*` and `Run /etc/init.d/oracle-free-23ai configure`.
- Oracle Linux 9**: Lists a file named "oracle-database-free-23ai-1.0-1.el9.x86_64.rpm" with its SHA256sum and size.

A "Talk to sales" button is visible in the bottom right corner.

The screenshot shows the GitHub repository for "gvenzl / oci-oracle-free". The repository is public and has 104 stars and 27 forks. It contains several files and folders:

- tests**: Oracle Database 23.4 Free (#49), 3 weeks ago
- .gitignore**: 23c Free – Developer Release (#1), last year
- Dockerfile.23**: Oracle Database 23.4 Free (#49), 3 weeks ago
- Dockerfile.faststart**: Use z7 for data files (#5), last year
- ImageDetails.md**: Oracle Database 23.4 Free (#49), 3 weeks ago
- LICENSE.txt**: 23c Free – Developer Release (#1), last year
- README.md**: Oracle Database 23.4 Free (#49), 3 weeks ago
- buildContainerImage.sh**: Oracle Database 23.4 Free (#49), 3 weeks ago
- container-entrypoint.sh**: Oracle Database 23.4 Free (#49), 3 weeks ago
- createAppUser**: 23c Free – Developer Release (#1), last year
- createDatabase**: New features and bug fixes (#28), 7 months ago
- healthcheck.sh**: Dev (#13), 10 months ago
- install.23.sh**: Oracle Database 23.4 Free (#49), 3 weeks ago
- resetPassword**: Dev (#13), 10 months ago

The repository includes a README, an Apache-2.0 license, and a language usage bar showing 100% Shell. The README text states: "Oracle Database Free Container / Docker images. The images are compatible with podman and docker. You can use podman or docker interchangeably."

```

dani$ docker run -d -p 1526:1521 -e ORACLE_PASSWORD=manager gvenzl/oracle-free
Unable to find image 'gvenzl/oracle-free:latest' locally
latest: Pulling from gvenzl/oracle-free
b8addeff22c2: Pull complete
b6b0531b89cf: Pull complete
f31f0bddd9fd: Pull complete
828e1d5ae88a: Pull complete
d3cb6ebc4f01: Pull complete
8e9318437740: Pull complete
Digest: sha256:f5f0455cebef4cd2c47a6eb828e1f320dfdbd5f1563db9dc29177fc6609238da
Status: Downloaded newer image for gvenzl/oracle-free:latest
511ce881fc826d0767cc1f1542a221fd58f87409d38e7912c3c005383366c7a9

dani$ docker ps
CONTAINER ID        IMAGE               COMMAND                  CREATED
511ce881fc82       gvenzl/oracle-free "container-entrypoin..." About a minute
f0ab72ea187d       oracle/database:19.7.0.0 "/bin/sh -c 'exec ${..." 3 years ago
21aae81d63f6       oracle/database:20.2.0.0 "/bin/sh -c 'exec ${..." 4 years ago

dani$ docker container rename competent_maxwell db23ai
dani$ docker exec db23ai resetPassword manager

User altered.
User altered.

dani$ docker port db23ai
1521/tcp -> 0.0.0.0:1526

dani$ docker exec -it db23ai sqlplus / as sysdba

SQL*Plus: Release 23.0.0.0.0 - Production on Thu May 9 12:43:15 2024
Version 23.4.0.24.05

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Connected to:
Oracle Database 23ai Free Release 23.0.0.0.0 - Develop, Learn, and Run for Free
Version 23.4.0.24.05

SQL> show pdbs

CON_ID      CON_NAME          OPEN MODE  RESTRICTED
-----
2 PDB$SEED         READ ONLY  NO
3 FREEPDB1        READ WRITE NO

SQL>

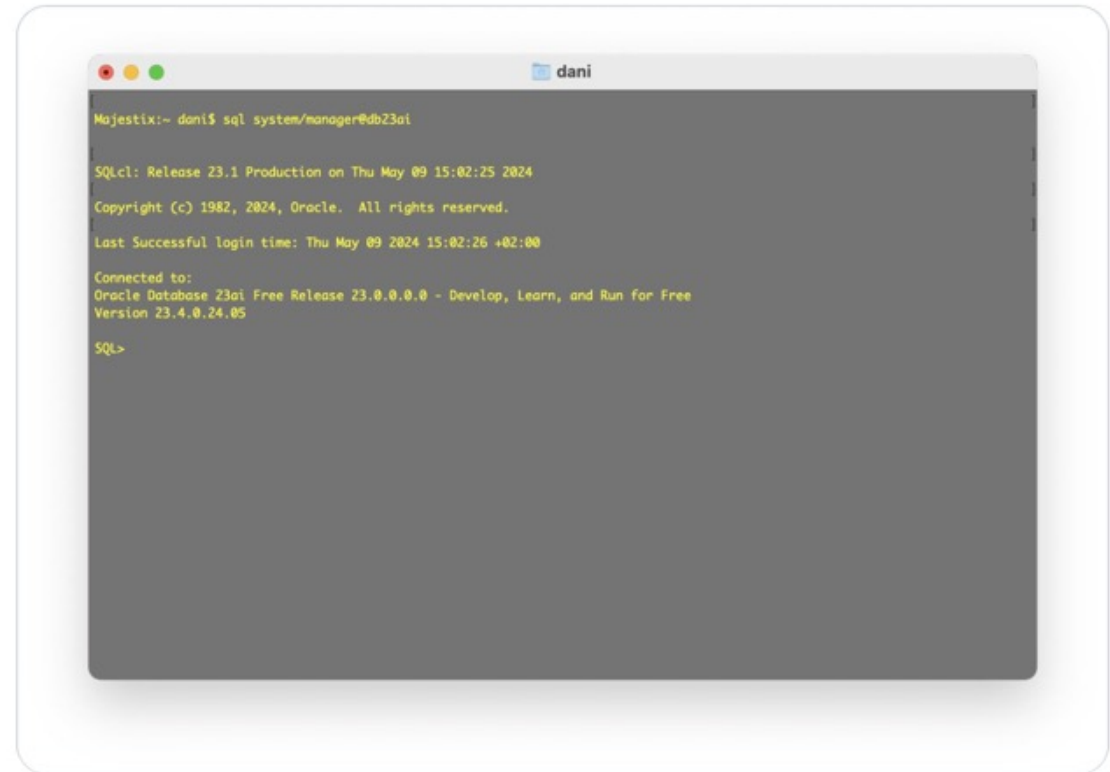
```



Dani Schneider
@dani_schnider



Ready to go with [@OracleDatabase 23ai](#) in just a few minutes. Thanks [@GeraldVenzl](#) for the Docker image on github.com/gvenzl/oci-ora...



3:05 PM · May 9, 2024 · 507 Views

Live Demo



Installation in Oracle Cloud

The screenshot shows the Oracle Cloud console interface for creating a database system. The top navigation bar includes the Oracle Cloud logo, a search bar, and the region 'Switzerland North (Zurich)'. The main content area is divided into two panels. The left panel, titled 'Create DB system', shows a progress indicator with two steps: 'DB system information' and 'Database information'. The 'Database information' step is active, and the 'Database image' field is set to 'Oracle Database 23ai'. The right panel, titled 'Select a Database Software Image', provides a description of database software images and offers two options: 'Oracle Database Software Images' (selected) and 'Custom Database Software Images'. Below these options, a table lists available Oracle Database versions: 23ai (checked), 21c, and 19c. The bottom of the interface features navigation buttons: 'Previous', 'Create DB system', and 'Cancel' on the left; 'Select' and 'Cancel' on the right. The footer contains links for 'Terms of Use and Privacy' and 'Cookie Preferences', along with a copyright notice for 2024.

ORACLE Cloud Search resources, services, documentation, and Marketplace Switzerland North (Zurich)

Create DB system

1 [DB system information](#)
2 **Database information**

Provide information for the initial database

Database name
DB23AI

Database unique name suffix *Optional* ⓘ

Database unique name *Read-only*

Database image
Oracle Database 23ai

PDB name *Optional*

Create administrator credentials

Username *Read-only*

Select a Database Software Image [Help](#)

A database software image is a file containing a pre-configured Oracle Database software version, used to make software installation quicker and easier. Oracle-published images are generally available versions of Oracle Database. Custom database images are user-configured versions of Oracle Database that contain a specified list of software updates and patches.

Image Type

Oracle Database Software Images
These images contain generally available versions of Oracle Database software. ✓

Custom Database Software Images
These images are created by your organization and contain customized configurations of software updates and patches.

Display all available versions ⓘ

Oracle Database version	
<input checked="" type="checkbox"/>	23ai
<input type="checkbox"/>	21c
<input type="checkbox"/>	19c

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Upgrade Oracle 23c -> 23ai in OCI

The screenshot displays the Oracle Cloud console interface. At the top, the Oracle Cloud logo and a search bar are visible. The navigation breadcrumb shows the path: Overview > Oracle Base Database > DB Systems > DB System Details > Update History. The main content area is titled 'Update History' and shows details for Database System: [DBSystem-202309251856](#). On the left sidebar, there are filters for 'DB System' (set to DBSystem-202309251856) and 'Database' (set to DB23C). The update history table for the DB System shows two entries for the 'Apr 2024 23.4.0.24.05 Db System patch': one 'Applied' on May 29, 2024, and one 'Precheck Passed' on May 13, 2024. Below this, the details for Database: [DB23C](#) are shown, with a table listing three update operations: 'Applied' on May 29, 2024, 'Precheck Passed' on May 29, 2024, and 'Precheck Failed' on May 29, 2024.

Oracle Cloud Search resources, services, documentation, and Marketplace Switzerland North (Zurich)

Overview > Oracle Base Database > DB Systems > DB System Details > Update History

Oracle Base Database

Update History

Database System: [DBSystem-202309251856](#)

Description	State	Component	Operation type	Target version	Started	Ended	
Apr 2024 23.4.0.24.05 Db System patch	● Applied	GI patch	Apply	23.4.0.24.05	Wed, May 29, 2024, 09:36:52 UTC	Wed, May 29, 2024, 09:47:27 UTC	⋮
Apr 2024 23.4.0.24.05 Db System patch	● Precheck Passed	GI patch	Precheck	23.4.0.24.05	Mon, May 13, 2024, 14:25:32 UTC	Mon, May 13, 2024, 14:26:59 UTC	⋮

Showing 2 items < 1 of 1 >

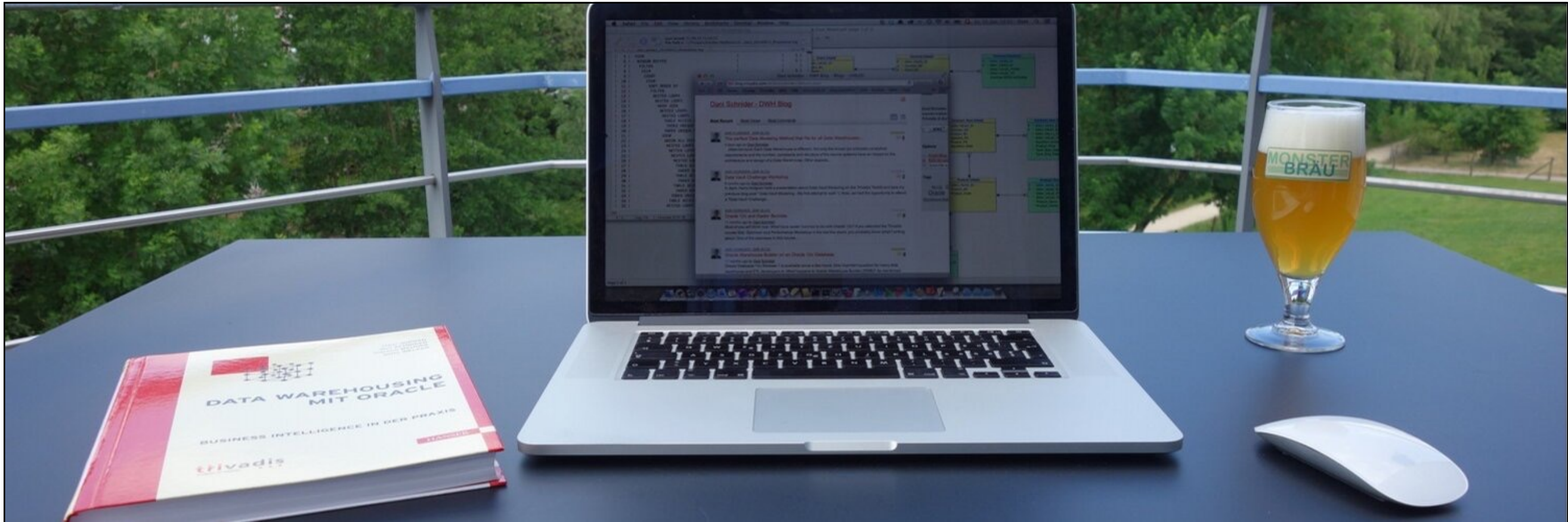
Database: [DB23C](#)

Name	State	Version	Type	Operation type	Started	Ended	
Apr 2024 23.4.0.24.05 Database patch	● Applied	23.4.0.24.05	Oracle Published	Apply	Wed, May 29, 2024, 10:06:31 UTC	Wed, May 29, 2024, 11:44:41 UTC	⋮
Apr 2024 23.4.0.24.05 Database patch	● Precheck Passed	23.4.0.24.05	Oracle Published	Precheck	Wed, May 29, 2024, 09:59:22 UTC	Wed, May 29, 2024, 10:01:57 UTC	⋮
Apr 2024 23.4.0.24.05 Database patch	● Precheck Failed	23.4.0.24.05	Oracle Published	Precheck	Wed, May 29, 2024, 09:33:10 UTC	Wed, May 29, 2024, 09:35:48 UTC	⋮

Showing 3 items < 1 of 1 >

More Information...

- Announcing Oracle Database 23ai : General Availability
<https://blogs.oracle.com/database/post/oracle-23ai-now-generally-available>
- Database 23ai: Feature Highlights
<https://www.oracle.com/database/23ai/>
- Oracle Database Features and Licensing App
<https://apex.oracle.com/pls/apex/r/features/dbfeatures/home>
- Oracle Database New Features Release 23ai
<https://docs.oracle.com/en/database/oracle/oracle-database/23/nfcoa/toc.htm>
- Oracle Database Free Get Started
<https://www.oracle.com/database/free/get-started/>
- oci-oracle-free Docker Images from Gerald Venzl
<https://github.com/gvenzl/oci-oracle-free>



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Q&A