Oracle® NoSQL Database Quick Start to KVLite



Release 25.1 E87605-36 June 2025

ORACLE

Oracle NoSQL Database Quick Start to KVLite, Release 25.1

E87605-36

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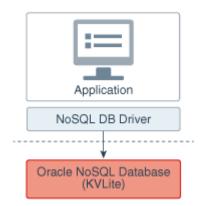
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Introduction

The Oracle NoSQL Database is a scalable, distributed NoSQL database, designed to provide highly reliable, flexible and available data management across a configurable set of storage nodes. It consists of two parts - a NoSQL DB Driver and a collection of storage nodes called the data store. The NoSQL DB Driver is an intelligent driver that transparently handles all the core operations of Oracle NoSQL Database, and the data store consists of storage nodes.

KVLite is a simplified version of the Oracle NoSQL Database. It provides a single storage node, single shard store, that is not replicated. It runs in a single process without requiring any administrative interface. You configure, start, and stop KVLite using a command line interface.



Note: KVLite is intended for use by application developers who want to develop and unit test their Oracle NoSQL Database applications. It can be used as a development platform for developers to get familiar with Oracle NoSQL APIs, and test different ways of interacting with these APIs. KVLite runs on a single system. It is not intended for production deployment, or for performance measurements.

Also, KVLite is secure by default. If you want to run KVLite in non-secure mode, you will have to explicitly provide parameters to disable security while installing KVLite as demonstrated in this guide.

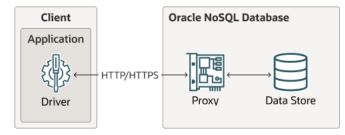
This Quick Start guide demonstrates how to perform the following tasks:

- 1. About the Oracle NoSQL Database Proxy
- 2. Install KVLite
- 3. Start KVLite
- 4. Verify your Installation
- 5. Stop and Restart KVLite



About the Oracle NoSQL Database Proxy

The Oracle NoSQL Database Proxy is a middle-tier component that lets the Oracle NoSQL Database SDK communicate with the Oracle NoSQL Database (kvlite configuration).



The Oracle NoSQL Database drivers are available in various programming languages that are used in the client application. The Oracle NoSQL Database Proxy is a server that accepts requests from the client application and processes them using the Oracle NoSQL Database. The JAR file (httpproxy.jar) for the Oracle NoSQL Database Proxy is included in the Enterprise Edition distribution and the Community Edition distribution of Oracle NoSQL Database that you downloaded. You can download the JAR for the Oracle NoSQL Database Proxy from the Oracle Technology Network.

After you start KVLite, you must run the following command to start up the proxy.

For a non-secure kvlite:

```
java -jar lib/httpproxy.jar \
-storeName <kvstore_name> \
-helperHosts <kvstore_helper_host> \
[-hostname <proxy_host>] \
[-httpPort <proxy http port>]
```

For a secure kvlite:

```
java -jar lib/httpproxy.jar \
-storeName <kvstore_name> \
-helperHosts <kvstore_helper_host> \
[-hostname <proxy_host>] \
[-httpsPort <proxy_https_port>] \
-storeSecurityFile proxy/proxy.login \
-sslCertificate certificate.pem \
-sslPrivateKeyPass <privatekey_password> \
[-verbose true]
```

For more information, see Oracle NoSQL Database Proxy.



Install KVLite

KVLite is bundled with the Oracle NoSQL Database software. To install KVLite, perform the following:

- 1. Download the tar.gz or .zip file (depending on your operating system) from Oracle Technology Network.
- 2. In a Linux operating system, use gunzip and tar commands to extract the .tar.gz package (or use unzip command if you downloaded the .zip package). Oracle NoSQL Database version 25.1.13 Community Edition is used in this example. The actual package names and directory names will change, depending upon the release version you are using, and whether you are using Community Edition (CE) or Enterprise Edition (EE).

Also, make sure you meet the following requirements to run KVLite:

- Install Java version 17 in your machine.
- Maintain a minimum disk space of 5GB.

\$ gunzip kv-ce-25.1.13.tar.gz

\$ tar xvf kv-ce-25.1.13.tar



Start KVLite

Perform the following steps to start a KVLite instance:

You could start KVLite in secure mode (the default option) or non-secure mode. If the KVLite is started in a secure mode, you should also configure a secure proxy and start it. Similarly if the KVLite is started in a non-secure mode, a non-secure proxy needs to be configured and started.

The following environmental variables have to be set before invoking the script to start KVLite as these variables are used in the scripts.

Name of the variable	Description	Sample values
KV_HOST	Identifies a host name associated with the node on which the script to configure kvlite is run.	localhost or the name of the machine
KV_PROXY_PORT	The TCP/IP port on which proxy should be contacted.	Non-Secure proxy: Use 80 if root privilege is there, else 8080
		Secure proxy: Use 443 if root privilege is there, else 8443
KV_HARANGE	A range of free ports that the Replication Nodes and Admins use to communicate among themselves. These ports should be sequential.	5010-5020
KV_SERVICERANGE	A range of ports that may be used for communication among administrative services running on a Storage Node and its managed services.	5021-5049
KV_PORT	The TCP/IP port on which Oracle NoSQL Database should be contacted. Sometimes referred to as the registry port.	5000
KV_ADMIN_PORT	The TCP/IP port on which the admin service should be started.	5999

Table Environment variables

Start KVLite in secure mode:

- Download and extract the zipped file (start_securekvlite.zip) into the directory where you
 extracted kvlite. This zipped file contains the scripts needed for starting KVLite in secure
 mode.
- Invoke the script (start kvlite.sh) to start KVLite in secure mode.

\$/bin/bash start_kvlite.sh

You get an output as shown below:

```
Waiting for kvstore to start...
Waiting for kvstore to start...
Generated password for user admin:*********
```



```
User login file: kvroot/security/user.security
Created new kvlite store with args:
-root kvroot -store kvstore -host localhost -port 5000 -admin-web-port
5999 -secure-config enable
```

- Configure proxy for the secure kvlite: You need to do the following to configure a secure proxy:
 - Create a user (proxy_user) as the proxy needs an identity to connect to the secure data store.
 - Create a new password file to store the credentials needed to login as the proxy user.
 - Create a login file proxy.login for the proxy user.
 - Create self-signed certificates that can be used to securely connect to the Oracle NoSQL Database Proxy.

Invoke the script (setup-http-proxy-sec.sh) to configure proxy in secure mode.

```
$ /bin/bash setup-http-proxy-sec.sh
```

You get an output as shown below:

```
Creating password
Creating USER proxy user
Oct 01, 2024 6:48:23 AM org.jline.utils.Log logr
WARNING: Unable to create a system terminal, creating a dumb terminal
(enable debug logging for more information)
sql-> Statement completed successfully
sql-> Creating proxy secfiles
Created
Secret created
Creating certificate
Generating a RSA private key
.....
.....++++
writing new private key to 'kvroot/proxy/key.pem'
Certificate was added to keystore
```

• Use the script (start proxy.sh) to start the proxy for a secure data store:

/bin/bash start_proxy.sh

You get an output as shown below:

```
Starting Proxy
Proxy creating SSL channel
Proxy started:
async=false
helperHosts=localhost:5000
httpPort=0
httpsPort=8443
idleReadTimeout=0
```



```
kvConsistency=NONE REQUIRED
kvDurability=COMMIT NO SYNC
kvRequestTimeout=-1
monitorStatsEnabled=false
numAcceptThreads=3
numRequestThreads=32
proxyType=KVPROXY
sslCertificate=kvroot/proxy/certificate.pem
sslPrivateKey=kvroot/proxy/key-pkcs8.pem
sslPrivateKeyPass=iTO6aUCnh9XdsgkxFig=
sslProtocols=TLSv1.2, TLSv1.1, TLSv1
storeName=kvstore
storeSecurityFile=kvroot/proxy/proxy.login
verbose=true
proxyVersion=null
kvclientVersion=25.1.13
```

Start KVLite in non-secure mode:

- Download and extract the zipped file (start_nonsecurekvlite.zip) into the directory where you extracted kvlite. This zipped file contains the scripts needed for starting KVLite in nonsecure mode.
- Invoke the script (start nonsecure kvlite.sh) to start KVLite in non-secure mode.

\$/bin/bash start_nonsecure_kvlite.sh

You get an output as shown below:

```
Created new kvlite store with args: -root kvroot -store kvstore -host
localhost
-port 5000 -admin-web-port 5999 - secure-config disable
```

• Use the script (start nonsecure proxy.sh) to start the proxy for a non-secure data store:

\$/bin/bash start nonsecure proxy.sh

You get an output as shown below:

```
Starting Proxy
Proxy started:
async=false
helperHosts=localhost:5000
httpPort=8080
httpsPort=0
idleReadTimeout=0
kvConsistency=NONE REQUIRED
kvDurability=COMMIT NO SYNC
kvRequestTimeout=-1
monitorStatsEnabled=false
numAcceptThreads=3
numRequestThreads=32
proxyType=KVPROXY
sslProtocols=TLSv1.2,TLSv1.1,TLSv1
storeName=kvstore
```



```
verbose=true
proxyVersion=null
kvclientVersion=25.1.13
```

For a complete list of command line options that can be provided with the kvlite utility, see kvlite.

Verify your Installation

You can verify your installation and ensure that KVLite is running.

Start a new shell and run the following command:

\$ jps -m

Your list of processes running will include the kvlite(kvstore.jar) and the proxy that you configured and started. You get an output similar to the one shown below.

```
3523439 Jps -m
3500313 httpproxy.jar -helperHosts localhost:5000 -storeName kvstore -
httpPort 8080 -verbose true
3499946 kvstore.jar kvlite -secure-config disable -root kvroot -host
localhost -port 5000 -admin-web-port 5999 -harange 5010,5020 -servicerange
5021,5049 -storagedirsizegb 10
```

You can also ping your KVLite instance to see if the KVLite is configured and started successfully.

For secure KVLite:

```
java -Xmx64m -Xms64m -jar lib/kvstore.jar ping -host localhost \
-port 5000 -security kvroot/security/user.security
```

For non-secure KVLlite:

java -Xmx64m -Xms64m -jar lib/kvstore.jar ping -host localhost -port 5000

You get an output similar to the one shown below:

```
Pinging components of store kvstore based upon topology sequence #14
10 partitions and 1 storage nodes
Time: 2025-04-01 05:23:45 UTC Version: 25.1.13
Shard Status: healthy: 1 writable-degraded: 0 read-only: 0 offline: 0
total: 1
Admin Status: healthy
Zone [name=KVLite id=zn1 type=PRIMARY allowArbiters=false
masterAffinity=false]
RN Status: online: 1 read-only: 0 offline: 0
Storage Node [sn1] on localhost: 5000
Zone: [name=KVLite id=zn1 type=PRIMARY allowArbiters=false
masterAffinity=false]
Status: RUNNING Ver: 25.1.13 2025-04-01 05:24:19 UTC
Build id: e0c93c1f1395 Edition: Enterprise
                                             isMasterBalanced: true
serviceStartTime: 2025-04-01 05:24:21 UTC
Admin [admin1] Status: RUNNING, MASTER serviceStartTime: 2025-04-01
05:24:23 UTC
stateChangeTime: 2025-04-01 05:25:04 UTC availableStorageSize: 2 GB
Rep Node [rq1-rn1] Status: RUNNING, MASTER sequenceNumber: 85 haPort: 5011
availableStorageSize: 9 GB storageType: HD serviceStartTime: 2025-04-01
```



05:24:05 UTC stateChangeTime: 2025-04-01 05:24:07 UTC



Stop and Restart KVLite

To stop and restart KVLite, perform the following steps:

To stop KVLite, use Ctrl C (^C) from within the shell where KVLite is running.

To restart the process, run the KVLite utility without any command line options. Do this even if you provided non-standard options when you first started KVLite. This is because KVLite remembers information such as the port value and the store name in between run times. You cannot change these values by using the command line options.

\$ java -Xmx64m -Xms64m -jar KVHOME/lib/kvstore.jar kvlite

If you want to start over with different options than you initially specified, delete the KVROOT directory (./kvroot), and then rerun the KVLite utility with the options you need. Refer to Start KVLite.

Note: If you decide to start over, all your previous data will be lost.



Quick Start to KVLite in a Container

You can run Oracle NoSQL Database in a container using the Oracle NoSQL Database container image.

Prerequisite

Install a containerization tool. In this book, we have made use of Docker as an example.

Note:

A full description of Docker is beyond the scope of this documentation. This chapter assumes prior knowledge of Docker.

The container image that we will be using is a simplified version of the Oracle NoSQL Database called KVLite. KVLite provides a single storage node, single shard store, that is not replicated. It runs in a single process without requiring any administrative interface.

Note:

- KVLite is not intended for production deployment or performance measurements. We recommend testing with data that is not considered sensitive in nature. In other words, do not test with sensitive information such as usernames, passwords, credit card information, medication information, etc.
- There are two Oracle NoSQL container images available in the GitHub container registry, one using a secure configuration and the other using a non-secure configuration. The primary difference is in the way KVLite is accessed. We recommend using the secure setup, although additional steps are needed during setup. One advantage of using the secure setup is that it gives you exposure to what is needed to setup a secure KVStore.

We will cover the following topics in this chapter:

- Start KVLite in a Container
- Connect to Database Using SDK Driver
- Connect to Database Using Oracle NoSQL Visual Studio Code Extension
- Connect to Database Using Oracle NoSQL IntelliJ Plugin

For details on more advanced scenarios, see the documentation in Github for connecting to non-secure and secure Oracle NoSQL Database in a container.

Start KVLite in a Container

This section explains how to start KVLite in a container.

1. Pull the Oracle NoSQL Database Container Image

The steps outlined below use the Oracle NoSQL Database Community Edition. You can pull the image directly from the GitHub Container Registry. Here, we are pulling the non-secure image.

```
docker pull ghcr.io/oracle/nosql:latest-ce
docker tag ghcr.io/oracle/nosql:latest-ce oracle/nosql:ce
```

2. Run Oracle NoSQL Database in a Container

You must provide a name and a hostname.

```
docker run -d --name=kvlite --hostname=kvlite --env KV_PROXY_PORT=8080 -p
8080:8080 oracle/nosql:ce
```

Output:

KVLite is started in a container and the ID of the container is displayed.

19001d44b56aa9a53c75cf0904298c4e0e3013df287e4a8f83ebff2e1b0ac172

By default, the KVLite store that is created has a size of 10 GB. You can use --env KV_STORAGESIZE=N to set a new value, where N is in gigabytes and must have a value greater than 1.

3. Check the Status of the Container

To check the status of the container, run the following command:

docker ps

Output:

The details of the container are displayed.

CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES 19001d44b56a oracle/nosql:ce "bash -c ./start-kvl..." 6 minutes ago Up 6 minutes 0.0.0.0:8080->8080/tcp, :::8080->8080/tcp kvlite

4. Validate your Deployment

You can ping the KVLite store instance using the following command

```
docker exec -ti kvlite java -jar lib/kvstore.jar ping -host kvlite -port 5000
```

Output:

```
Pinging components of store kvstore based upon topology sequence #14
10 partitions and 1 storage nodes
Time: 2025-04-28 09:57:53 UTC Version: 24.4.9
Shard Status: healthy: 1 writable-degraded: 0 read-only: 0 offline: 0
total: 1
Admin Status: healthy
Zone [name=KVLite id=zn1 type=PRIMARY allowArbiters=false
```



masterAffinity=false] RN Status: online: 1 read-only: 0 offline: 0 Storage Node [sn1] on kvlite: 5000 Zone: [name=KVLite id=zn1 type=PRIMARY allowArbiters=false masterAffinity=false] Status: Ver: 24.4.9 2024-11-21 17:06:06 UTC Build id: 95fa28ea4441 RUNNING isMasterBalanced: true Edition: Community serviceStartTime: 2025-04-28 09:43:36 UTC Admin [admin1] Status: RUNNING, MASTER serviceStartTime: 2025-04-28 09:43:38 UTC stateChangeTime: 2025-04-28 09:43:38 UTC availableStorageSize: 2 GB Rep Node [rg1-rn1] Status: RUNNING, MASTER sequenceNumber: 84 haPort: 5011 availableStorageSize: 9 GB storageType: HD serviceStartTime: 2025-04-28 09:43:39 UTC stateChangeTime: 2025-04-28 09:43:39 UTC

5. Query the Database

You can start the SQL shell to query the database and create few tables.

docker exec -ti kvlite java -jar lib/sql.jar -helper-hosts kvlite:5000 - store kvstore

The SQL prompt is displayed.

sql->

Enter the SQL query to create a table named ticket.

```
sql->create table if not exists ticket(ticketNo LONG, confNo STRING,
PRIMARY KEY(ticketNo))
```

Output:

The table is created successfully

Statement completed successfully

Enter the query to show the list of tables

sql->show tables

Output:

The table ticket that you just created is listed.

```
tables
```

```
SYS$IndexStatsLease
SYS$MRTableAgentStat
SYS$MRTableInfo
SYS$MRTableInitCheckpoint
SYS$PartitionStatsLease
SYS$SGAttributesTable
SYS$StreamRequest
SYS$StreamResponse
SYS$TableMetadata
```



```
SYS$TableStatsIndex
SYS$TableStatsPartition
SYS$TopologyHistory
ticket
```

Connect to Database Using SDK Driver

This section describes how you can connect to KVLite in a container using SDK driver.

The Oracle NoSQL Database SDK drivers can be used to access either the Oracle NoSQL Database cloud service, cloud simulation, or an on-premise installation via the Oracle NoSQL Database Proxy. For more details, see About Oracle NoSQL Database SDK drivers.

The Oracle NoSQL Database drivers are available for various programming languages. Here is a snippet from a Python program showing the connection to the KVLite instance that we are running inside a container.

```
def get_connection_onprem():
```

kvstore_endpoint ='http://localhost:8080'
provider = StoreAccessTokenProvider()
return NoSQLHandle(NoSQLHandleConfig(kvstore_endpoint, provider))

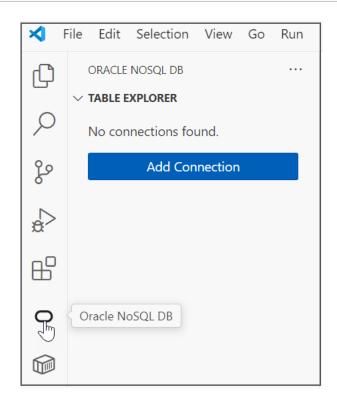
If you are using an external host, provide the name of the host machine instead of localhost.

Connect to Database Using Oracle NoSQL Visual Studio Code Extension

This section describes how you can connect to KVLite in a container using Oracle Database Visual Studio Code Extension.

Oracle NoSQL Database Visual Studio (VS) Code extension provides multiple ways to connect to an Oracle NoSQL Database. You can connect to Oracle NoSQL Database cloud service, cloud simulation, or an on-premise installation. For more details, see About Oracle NoSQL Database Visual Studio Code Extension. In the below case, we will connect to the KVLite instance that we are running inside a container by creating an on-premise connection.

Open the Oracle NoSQL DB extension from the left panel in Visual Studio Code.



2. Choose **Show Connection Settings** page from the Command Palette.

File Edit Selection View Go	Run \cdots \leftarrow \rightarrow	9		D O	ð ×
ORACLE NOSQL DB	··· O Connection Settings ×				□ …
✓ TABLE EXPLORER ● ● ✓ No connections found. Show	Connection Settings				A
Add Connection		Со	nnection Setting	S	
	Connect to	o Oracle NoSQL Database Cloud	I Service, Oracle NoSQL Database or 1	to the Oracle NoSQL Cloud Simulator.	
8		Cloud	Onprem	CloudSim	
0		•			
6	Connecti Select a	ons connection		Add New Connection	
			Modify Connection	n Delete Connection	

3. Choose Onprem. Choose Add New Connection. Provide a Connection Name and provide the Endpoint as http://localhost:8080 (if you are using an external host - provide the name of the host machine). Choose Add.

Connect to Oracle NoSQL Database C	loud Service, Oracle NoSQL Database (or to the Oracle NoSQL Cloud Simulator.
Cloud	Onprem	CloudSim
		Add New Connection
*Connection Name:		
ConnectionKVLite		
*Endpoint:		
http://localhost:8080		
Namespace:		
Security:		
None 🗸		
_		Close Add

4. You will now be able to view the connection in the left panel. Choose the Plus icon or rightclick on the database connection name and choose **Create Table**.

≺	File Edit	Selection	View	Go	Run		\leftarrow
ŋ	ORACI	E NOSQL DB					
	\sim TABLE	EXPLORER			⊕⊳		1
\mathcal{O}	× 🖬	Connection	(VLite : l	ocalh	ost:8080)	the
ĺ .	> 🗉	SYS\$Index	StatsLea	se		C	reate Table
go	> 🗉	SYS\$MRTab	bleAgen	tStat			
6	> 🗉	SYS\$MRTab	oleInfo				
	> 🗉	SYS\$MRTab	oleInitCh	neckpo	oint		
₽ C	> 🗉	SYS\$Partiti	onStatsl	ease			
	> 🗉	SYS\$SGAtt	ributesTa	able			
Ш	> 🗉	SYS\$Stream	nReques	st			Г
	> 🗉	SYS\$Stream	nRespor	nse			
0	> 🗉	SYS\$Table	/letadata	а			
	> 🗉	SYS\$Tables	itatsInde	ex			
	> 🗉	SYS\$Tables	itatsPart	ition			
	> 🗉	SYS\$Topol	ogyHisto	ory			
	> 🗉	ticket					



. For more details on creating and managing tables, see Managing Tables Using Visual Studio Code Extension

Connect to Database Using Oracle NoSQL IntelliJ Plugin

This section describes how you can connect to KVLite in container using Oracle NoSQL IntelliJ plugin.

Oracle NoSQL Database IntelliJ Plugin provides multiple ways to connect to an Oracle NoSQL Database. You can connect to Oracle NoSQL Database cloud service, cloud simulation, or an on-premise installation. For more details, see About IntelliJ Plugin. In the below case, we will connect to the KVLite instance that we are running inside a container by creating an on-premise connection.

- 1. Choose the task licon in the Schema Explorer window to open the Settings dialog.
- 2. Expand Tools> Oracle NoSQL in the Settings dialog, and choose Connections.
- 3. Select **Onprem** from the drop-down menu.
- Choose Add Connection. Enter the connection parameters and select OK. Enter the proxy URL as http://localhost:8080 (if you are using an external host - provide the name of the host machine).

ý.		Tools > O	cle NoSQL > Connections	\leftarrow
Version Control Build, Execution, Deployment		Onprem		~
Languages & Frameworks		Proxy URL	ttp://localhost:8080	
Tools		PIOXY URL	http://localnost.8080	
Actions on Save		SDK path	\oracle-nosql-java-sdk-5.4.17\ora	cle-nosql-java-sdk
Code With Me				
CSV Formats		Security	lone	~
> Database				
> Database Versioning	8			
Diagrams				
> Diff & Merge				
External Tools				
Features Suggester				
Features Trainer				
HTTP Client	8			
JPA Entity Declaration	8			
JPA Reverse Engineering	8			
> Kotlin Notebook	8			
✓ Oracle NoSQL	8			
General	8			
Connections	8			
Qodana	8			
Remote SSH External Tools				
Rsync				

5. Go to Schema Explorer and view the connection. You can right-click on the connection and choose Create Table and perform various table operations. For more details on this, see Managing Tables Using the IntelliJ Plugin.



	P Passenger – Version control –
	Schema Explorer
	ゆ 感 :
印 …	 Iocalhost:8080 SYS\$IndexS SYS\$MRTat SYS\$MRTableInfo SYS\$MRTableInitCheckpoint SYS\$PartitionStatsLease
	 SYS\$PartitionstatsLease SYS\$SGAttributesTable SYS\$StreamRequest SYS\$StreamResponse SYS\$TableMetadata SYS\$TableStatsIndex SYS\$TableStatsPartition SYS\$TableStatsPartition SYS\$TopologyHistory ticket