



GRIDGAIN[®] CLOUD: IN-MEMORY COMPUTING DEPLOYED IN MINUTES



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GridGain® Cloud (Beta)

In-memory computing as a service

Deploy a database in memory, in minutes, as a service

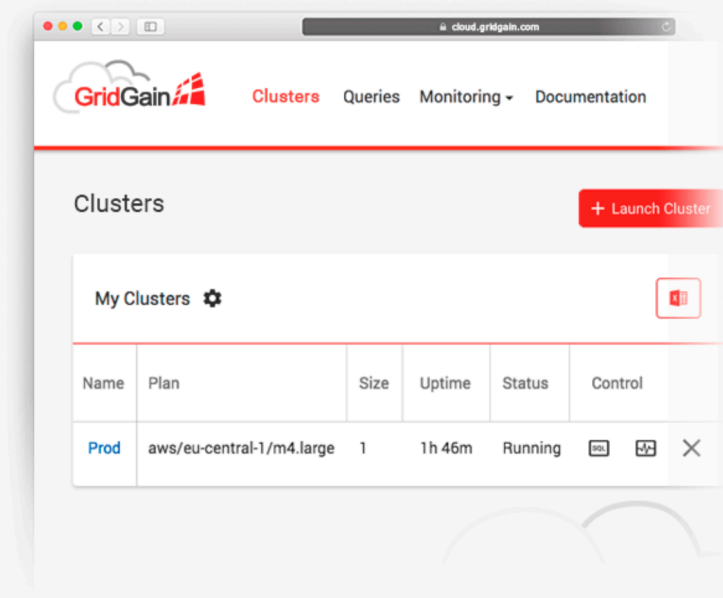
GridGain Cloud (Beta) allows developers to bring up a distributed in-memory Database as a Service (DBaaS) with just three clicks, and then monitor and manage it from a central console.

Securely access data from anywhere:

- JDBC
- ODBC
- Apache Ignite or GridGain thin clients
- REST API
- Web console (interactive SQL)

Start a cluster for FREE as part of the Beta!

Sign Up



GridGain Cloud

In-Memory Computing as-a-Service

Cloud Cache

- Deploy in-memory cache cluster in minutes
- Access anywhere using ANSI-99 SQL or key-value API

The screenshot displays the GridGain Cloud web interface. At the top, there's a navigation bar with the GridGain logo, a 'Beta' badge, and links for Clusters, Queries, Monitoring, and Documentation. The user 'Rob Meyer' is logged in. The main section is titled 'Clusters' and features a '+ Launch cluster' button. Below this, there's a 'My Clusters' section with a table of active clusters. The table has columns for Name, Plan, Size, Uptime, Status, and Control. One cluster, 'SQLCache', is listed with a 'FREE' plan, 'aws/us-west-1/t2.micro' instance type, size of 1, uptime of 1m, and status of 'Running'. Below the table are sections for 'Demos' and 'Manuals', with a 'More Docs' link. The footer contains copyright information for GridGain Cloud (1.0.0_05/17/2018), links to terms and conditions, privacy policy, and support, along with a 'POWERED BY' logo for Apache Ignite.

Name	Plan	Size	Uptime	Status	Control
SQLCache ^{FREE}	aws/us-west-1/t2.micro	1	1m	Running	

GridGain Cloud

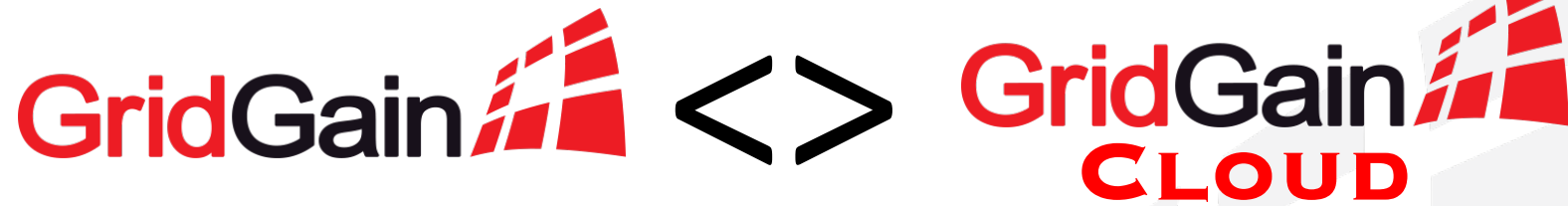
Access Data Anywhere

- Web Console (Interactive SQL)
- JDBC
- ODBC
- REST API (SQL or key-value)
- Apache Ignite, GridGain thin client

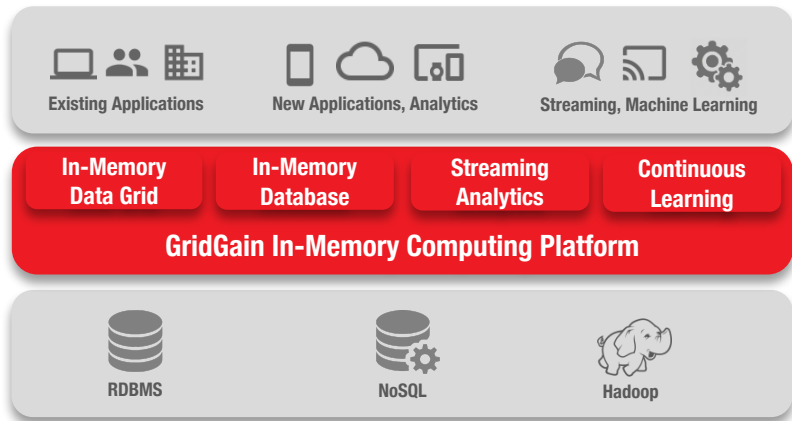
The screenshot displays the GridGain Cloud Web Console interface. At the top, there is a navigation bar with the GridGain logo, a 'Beta' badge, and links for Clusters, Queries, Monitoring, and Documentation. The user 'Rob Meyer' is logged in. The main content area is titled 'Queries' and shows the 'World DB' selected. A 'SQLCache' dropdown is visible. Below this, there are instructions on how to use the query notebook, including creating queries, executing and explaining SQL queries, and viewing data in tabular form and as charts. An 'Examples' section provides sample SQL code for creating a table, inserting data, and selecting from it. The 'Most Populated Countries' query is highlighted, showing the SQL code:

```
1 SELECT name, MAX(population) as max_pop FROM country
2 GROUP BY name, population
3 ORDER BY max_pop DESC LIMIT 3
```

 To the right of the query editor, there is a 'Caches' dropdown menu with options like 'City', 'Country', 'CountryLng', 'default', and 'SQL_PUBLIC_ROBSINFO'. Below the query editor, there are buttons for 'Execute', 'Execute on selected node', and 'Explain'. At the bottom, there are settings for 'Refresh rate', 'Page size' (set to 100), 'Max pages' (set to Unlimited), and checkboxes for 'Allow non-collocated joins', 'Enforce join order', and 'Lazy result set'.

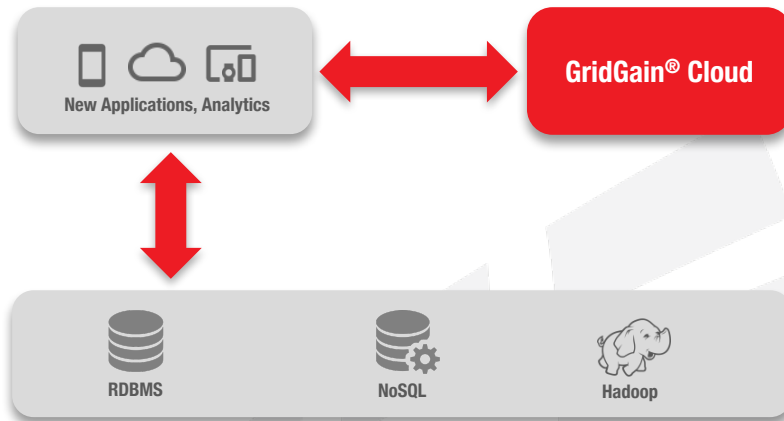


How is GridGain Cloud Different?



GridGain in-memory computing platform

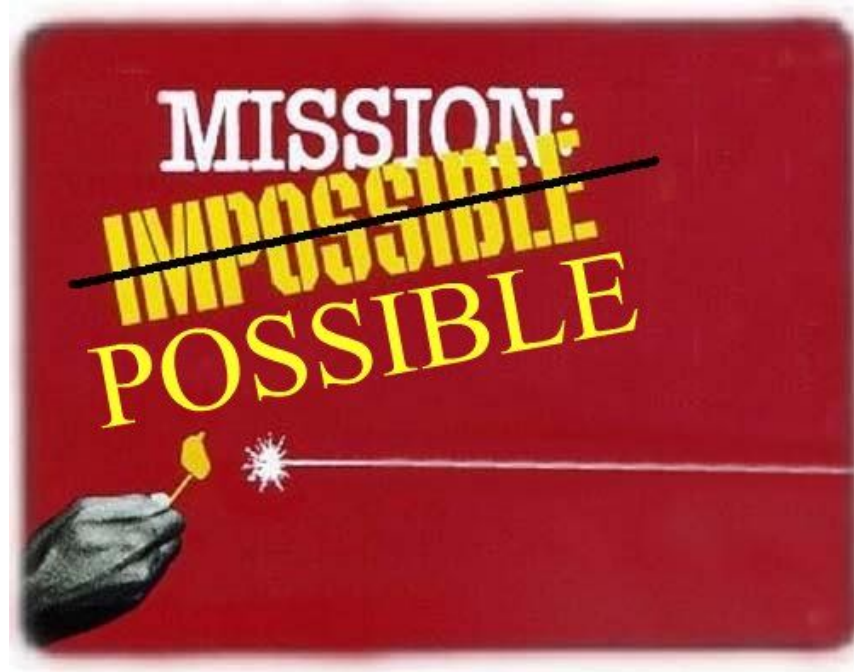
- On-premise, private cloud, public cloud
- IMDG
- IMDB
- Streaming Analytics, Continuous Learning



GridGain Cloud

- PaaS
- Cache-aside cloud cache

HOW TO DEPLOY IN MINUTES





SIGN UP AND START CLUSTER

GridGain® Cloud (Beta)

In-memory computing as a service

Deploy a cache in memory, in minutes, as a service

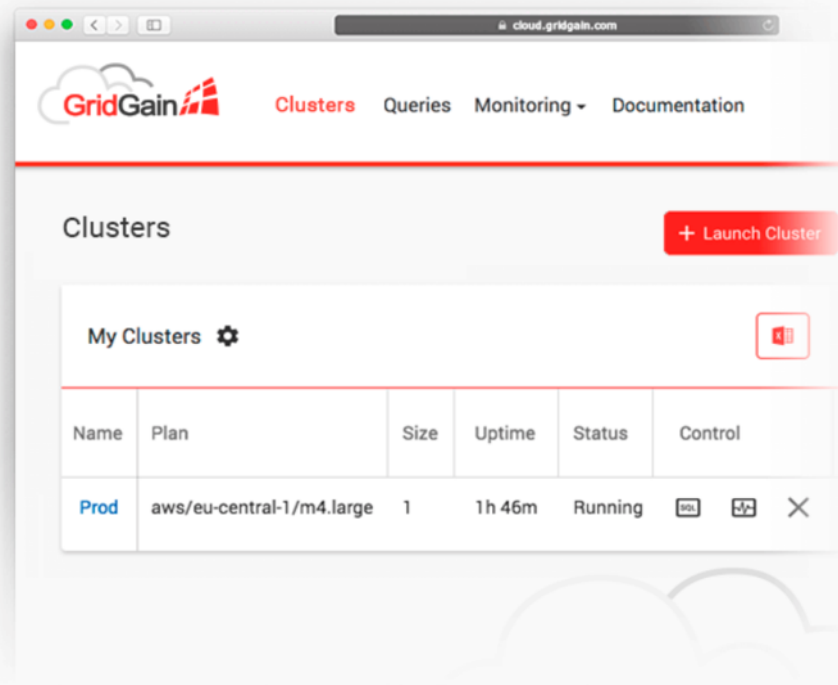
GridGain Cloud (Beta) allows developers to bring up a distributed in-memory cache as a service with just three clicks, and then monitor and manage it from a central console.

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- Web console (interactive SQL)

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Clusters

[+ Launch cluster](#)

Launch New Cluster



Name:

MyCluster

Provider:

Amazon Web Services ▾

Region:

us-west-1 ▾

Choice of Plan:

Memory Size:

1GB / t2.micro ▾

Nodes Count:

1

\$0

Cluster Password:

[Cancel](#)

Launch



DEMO 1

Demos

Quick Demo


Command Line

1. Preload

2. Query

Preload Demo Data

To preload demo data, click [here](#)
This will reset demo data to initial state.



☰ Demos

Quick Demo

Command Line

1. Preload

2. Query

Run SQL Queries

To run sample queries in a notebook, click [here](#)

! With query notebook you can

- Create any number of queries
- Execute and explain SQL queries
- Execute scan queries
- View data in tabular form and as charts

Examples:

```
CREATE TABLE Person(ID INTEGER PRIMARY KEY, NAME VARCHAR(100));
INSERT INTO Person(ID, NAME) VALUES (1, 'Ed'), (2, 'Ann'), (3, 'Emma');
SELECT * FROM Person;
```

📌 Most Populated Countries

```
1 SELECT name, MAX(population) as max_pop FROM country
2 GROUP BY name, population
3 ORDER BY max_pop DESC LIMIT 3
```

Caches:

- ☒ City
- ☐ Country
- ☐ CountryLng
- ☐ default

☐ Use selected cache as default schema name

[▶ Execute](#)[▶ Execute on selected node](#)[Explain](#)

Refresh rate: 

Page size:

Max pages:

☐ Allow non-collocated joins

☐ Enforce join order

☐ Lazy result set

Most Inhabited Cities



```
1 SELECT country.name, city.name, MAX(city.population) as max_pop FROM country
2 JOIN city ON city.countrycode = country.code
3 WHERE country.code IN ('USA', 'RUS', 'CHN')
4 GROUP BY country.name, city.name ORDER BY max_pop DESC LIMIT 3
```

Caches:



- ☒ City
- ☐ Country
- ☐ CountryLng
- ☐ default
- ☐ Use selected cache as default schema name

▶ Execute

▶ Execute on selected node

Explain

Refresh rate:



Page size:

100

Max pages:

Unlimited

- ☐ Allow non-collocated joins
- ☐ Enforce join order
- ☐ Lazy result set

Select City



```
1 SELECT * FROM city WHERE id = 3507
```

Caches:



- ☒ City
- ☐ Country
- ☐ CountryLng
- ☐ default
- ☐ Use selected cache as default schema name

▶ Execute

▶ Execute on selected node

Explain

Refresh rate:



Page size:

100

Max pages:

Unlimited

- ☐ Allow non-collocated joins
- ☐ Enforce join order
- ☐ Lazy result set

Update City

```
1 UPDATE city SET population = 1500 WHERE id = 3507
```

Caches:

- ☒ City
- ☐ Country
- ☐ CountryLng
- ☐ default

☐ Use selected cache as default schema name

 Execute

 Execute on selected node

Explain

Refresh rate: 

Page size:

Max pages:

☐ Allow non-collocated joins

☐ Enforce join order

☐ Lazy result set

Delete City

```
1 DELETE FROM city WHERE id = 3507
```

Caches:

- ☒ City
- ☐ Country
- ☐ CountryLng
- ☐ default

☐ Use selected cache as default schema name

 Execute

 Execute on selected node

Explain

Refresh rate: 

Page size:

Max pages:

☐ Allow non-collocated joins

☐ Enforce join order

☐ Lazy result set



DEMO 2

Demos

Quick Demo

Command Line

1. Download

2. SSL

3. Connect

4. Preload

5. Query

Download and Install

- Download GridGain Cloud Client Pack [here](#)
- Unpack the distribution on your local file system.

Demos

Quick Demo

Command Line

1. Download

2. SSL

3. Connect

4. Preload

5. Query

Making Connection Secured

- Download your personal Java Key Store (it will be shared across all clusters) [here](#)
- Copy it into {gridgain_location}/bin folder for the sake of this quick start. You can change the location later.

Demos

Quick Demo

Command Line

1. Download

2. SSL

3. Connect

4. Preload

5. Query

Connect to the Cluster

- Navigate to {gridgain_location}/bin folder.
- Execute this command to connect to the cluster with SQLLine.

MyCluster

```
./sqlline.sh -u "jdbc:ignite:thin://d.65vu2bi26vlryjpnbej6ap.gridgain.cloud:9070;user=ignite;password=EoJZWuXPER;sslMode=require..."
```

```
bin — java ◀ sqlline.sh -u jdbc:ignite:thin://d.65vu2bi26vlryjpnbej6ap.gridgain.clo...
[macbookpro:bin gb0055850$ ./sqlline.sh -u "jdbc:ignite:thin://d.65vu2bi26vlryjpnbej6ap.gridgain.cloud:9070;user=ignite;password=EoJZWuXPER;sslMode=require;sslClientCertificateKeyStoreUrl=keyStore.jks;sslClientCertificateKeyStorePassword=ZfLNkdj4VCSbrmCgwXsf;sslTrustCertificateKeyStoreUrl=keyStore.jks;sslTrustCertificateKeyStorePassword=ZfLNkdj4VCSbrmCgwXsf"
/usr/bin/java
sqlline version 1.3.0
0: jdbc:ignite:thin://d.65vu2bi26vlryjpnbej6a> █
```

```
bin — java ◀ sqlline.sh -u jdbc:ignite:thin://d.65vu2bi26vlryjpnbej6ap.gridgain.clo...
[macbookpro:bin gb0055850$ ./sqlline.sh -u "jdbc:ignite:thin://d.65vu2bi26vlryjpnbej6ap.gridgain.cloud:9070;user=ignite;password=EoJZWuXPER;sslMode=require;sslClientCertificateKeyStoreUrl=keyStore.jks;sslClientCertificateKeyStorePassword=ZfLNkdj4VCSbrmCgwXsf;sslTrustCertificateKeyStoreUrl=keyStore.jks;sslTrustCertificateKeyStorePassword=ZfLNkdj4VCSbrmCgwXsf"
/usr/bin/java
sqlline version 1.3.0
0: jdbc:ignite:thin://d.65vu2bi26vlryjpnbej6a> !run ../examples/sql/world.sql
```

```
bin — java < sqlline.sh -u jdbc:ignite:thin://d.65vu2bi26vlryjpnbej6ap.gridgain.clo...

No rows affected (0 seconds)
5321/5325      INSERT INTO CountryLanguage(CountryCode, Language, IsOfficial, Perc
entage) VALUES ('ZWE','Ndebele','F',16.2);
No rows affected (0 seconds)
5322/5325      INSERT INTO CountryLanguage(CountryCode, Language, IsOfficial, Perc
entage) VALUES ('ZWE','Nyanja','F',2.2);
No rows affected (0 seconds)
5323/5325      INSERT INTO CountryLanguage(CountryCode, Language, IsOfficial, Perc
entage) VALUES ('ZWE','Shona','F',72.1);
No rows affected (0 seconds)
5324/5325
5325/5325      SET STREAMING OFF;
No rows affected (1.573 seconds)
0: jdbc:ignite:thin://d.65vu2bi26vlryjpnbej6a> SELECT name, population FROM city
ORDER BY population DESC LIMIT 3;

+-----+-----+
|          NAME          | POPULATION |
+-----+-----+
| Mumbai (Bombay)       | 10500000  |
| Seoul                  | 9981619   |
| São Paulo              | 9968485   |
+-----+-----+

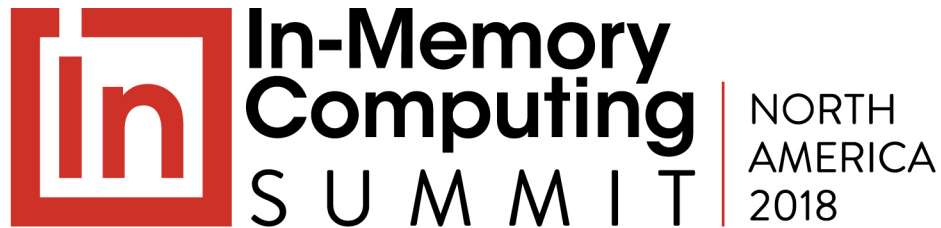
3 rows selected (0.871 seconds)
0: jdbc:ignite:thin://d.65vu2bi26vlryjpnbej6a> █
```



QUESTIONS



THANK YOU



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Beta



Sign In

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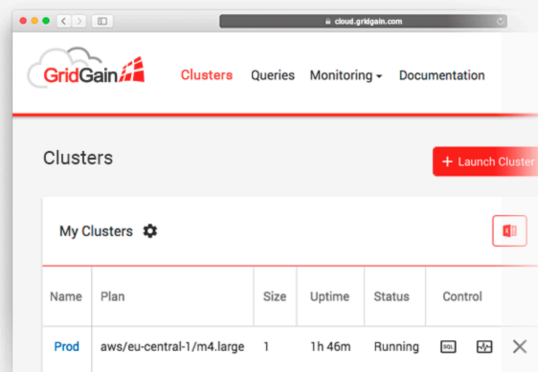
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GridGain Cloud (1.0.0-05/17/2018)

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