

ORACLE

# 甲骨文漫遊雲端線上研討會

資料倉儲

自治式資料庫

## Provisioning Autonomous Data Warehouse

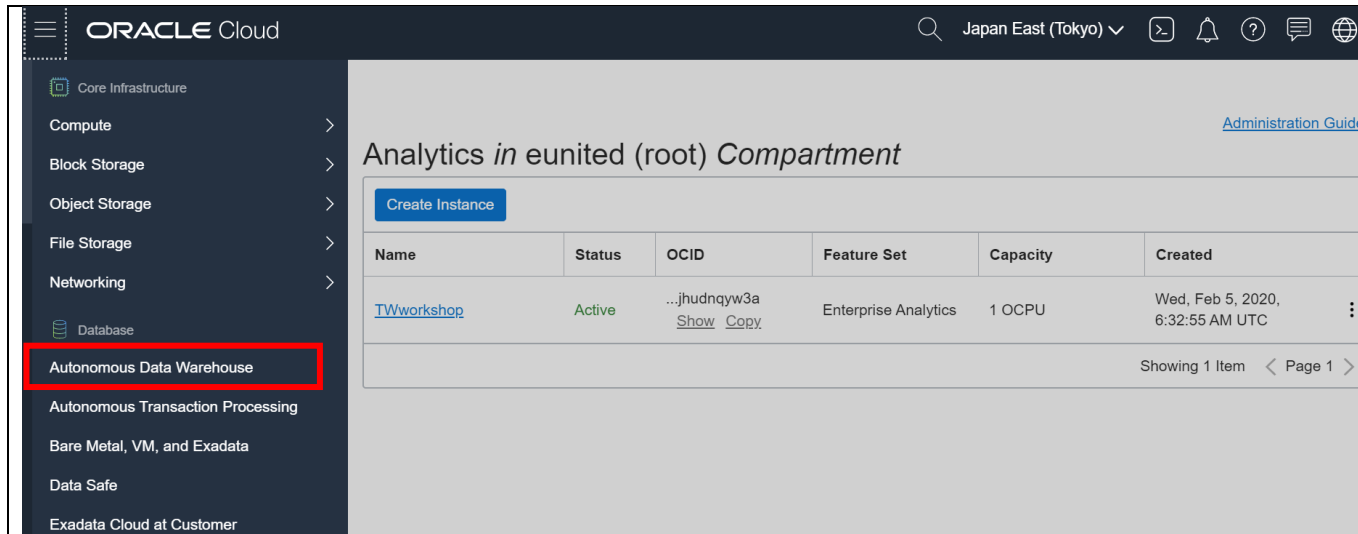
### Round 1 – Easy – Provisioning an ADW Instance

In this round, you will provision a new ADW instance

#### 1. Login to Oracle Cloud to create ADW Instance


View	Click Stream
	<ol style="list-style-type: none"> <li>Go back to your previous Tab</li> </ol>

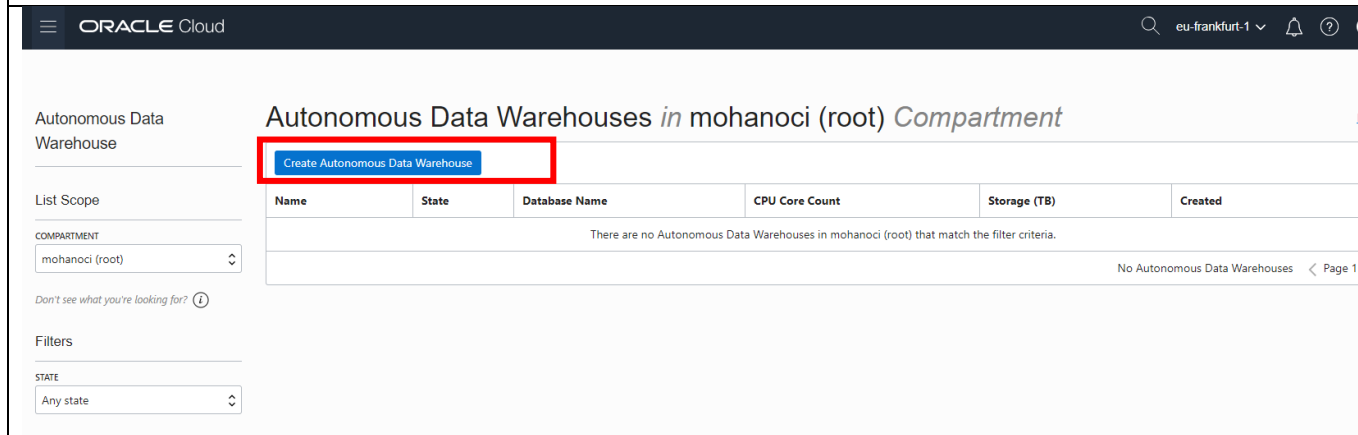
## Provisioning Autonomous Data Warehouse



The screenshot shows the Oracle Cloud console interface. On the left, a navigation menu lists various services. The 'Autonomous Data Warehouse' option is highlighted with a red rectangle. The main content area displays the 'Analytics in eunited (root) Compartment' page, which includes a 'Create Instance' button and a table with one instance named 'TWworkshop'.

Name	Status	OCID	Feature Set	Capacity	Created
<a href="#">TWworkshop</a>	Active	...jhudnqyw3a <a href="#">Show</a> <a href="#">Copy</a>	Enterprise Analytics	1 OCPU	Wed, Feb 5, 2020, 6:32:55 AM UTC

1. Click  on top left to expand service menu
2. Click **"Autonomous Data Warehouse"**



The screenshot shows the 'Autonomous Data Warehouses in mohanoci (root) Compartment' page. The 'Create Autonomous Data Warehouse' button is highlighted with a red rectangle. The page includes a table with columns for Name, State, Database Name, CPU Core Count, Storage (TB), and Created. A message states: 'There are no Autonomous Data Warehouses in mohanoci (root) that match the filter criteria.'

Name	State	Database Name	CPU Core Count	Storage (TB)	Created
There are no Autonomous Data Warehouses in mohanoci (root) that match the filter criteria.					

3. Click **"Create Autonomous Data Warehouse"**

## Provisioning Autonomous Data Warehouse

Choose a compartment

apacadw-demo

hktwlab (root)/apacadw-demo

Display name

DB 201912111545

A user-friendly name to help you easily identify the resource. Display name can be changed at any time.

Database name

DB201912111545

The name must contain only letters and numbers, starting with a letter. Maximum of 14 characters.

Choose a workload type

Data Warehouse

Configures the database for a decision support or data warehouse workload, with a bias towards large data scanning operations.



Transaction Processing

Configures the database for a transactional workload, with a bias toward high volumes of random data access.

#### 4. Provide the ADW Instance Information

- Display Name: anyone
- Database name: anyone  
(use your username as database name and display name)
- Chose Data Warehouse
- CPU Count: 1 (default)
- Storage: 1 (default)
- **Disable Auto Scaling**
- Administrator Password: **Any**
- Confirm Administrator Password: **Any**
- License Type – License Included (default)

Leave all other fields to their default value.

#### 5. Click “Create Autonomous Data Warehouse”

## Provisioning Autonomous Data Warehouse

### Serverless

Run Autonomous Database without provisioning infrastructure. Oracle deploys and manages the Exadata infrastructure for you. ✓

### Dedicated Infrastructure

Run Autonomous Database on dedicated Exadata infrastructure.

#### Configure the database

##### Always Free ⓘ

☒ Show only Always Free configuration options

##### OCPU Count

1

The number of CPU cores to enable. Available cores are subject to your tenancy's service limits.

##### Storage (TB)

1

The amount of storage to allocate.

##### ☐ Auto scaling

Allows system to use up to three times the provisioned number of cores as the workload increases. [Learn more.](#)

##### New Database Preview Version 19c Available ⓘ

☐ Enable Preview Mode

甲骨文漫遊雲端體驗日

## Provisioning Autonomous Data Warehouse

Create administrator credentials ⓘ

Username READ-ONLY

ADMIN

Password

Confirm password

Choose network access

By default all secure connections are allowed from everywhere. Configure the access control list (ACL) to restrict access.

☐ Configure access control rules ⓘ

Choose a license type

Bring Your Own License (BYOL)

Bring my organization's Oracle Database software licenses to the Database service. [Learn more](#)



License Included

Subscribe to new Oracle Database software licenses and the Database service.

[Show Advanced Options](#)

Create Autonomous Database

ORACLE Cloud

Autonomous Data Warehouse

List Scope

COMPARTMENT

mohanoci (root)

Don't see what you're looking for? ⓘ

Filters

### Autonomous Data Warehouses *in* mohanoci (root) *Compartment*

Create Autonomous Data Warehouse

Name	State	Database Name	CPU Core Count	Storage (TB)
<a href="#">adwttest</a>	Provisioning...	adwttest	1	1

6. Note your ADW service is being provisioned and state appears to be **"Provisioning"**—

**Important – Please wait till this completes**

☰

ORACLE Cloud

Autonomous Data Warehouse

List Scope

COMPARTMENT

mohanoci (root)

Don't see what you're looking for? ⓘ

Create Autonomous Data Warehouse

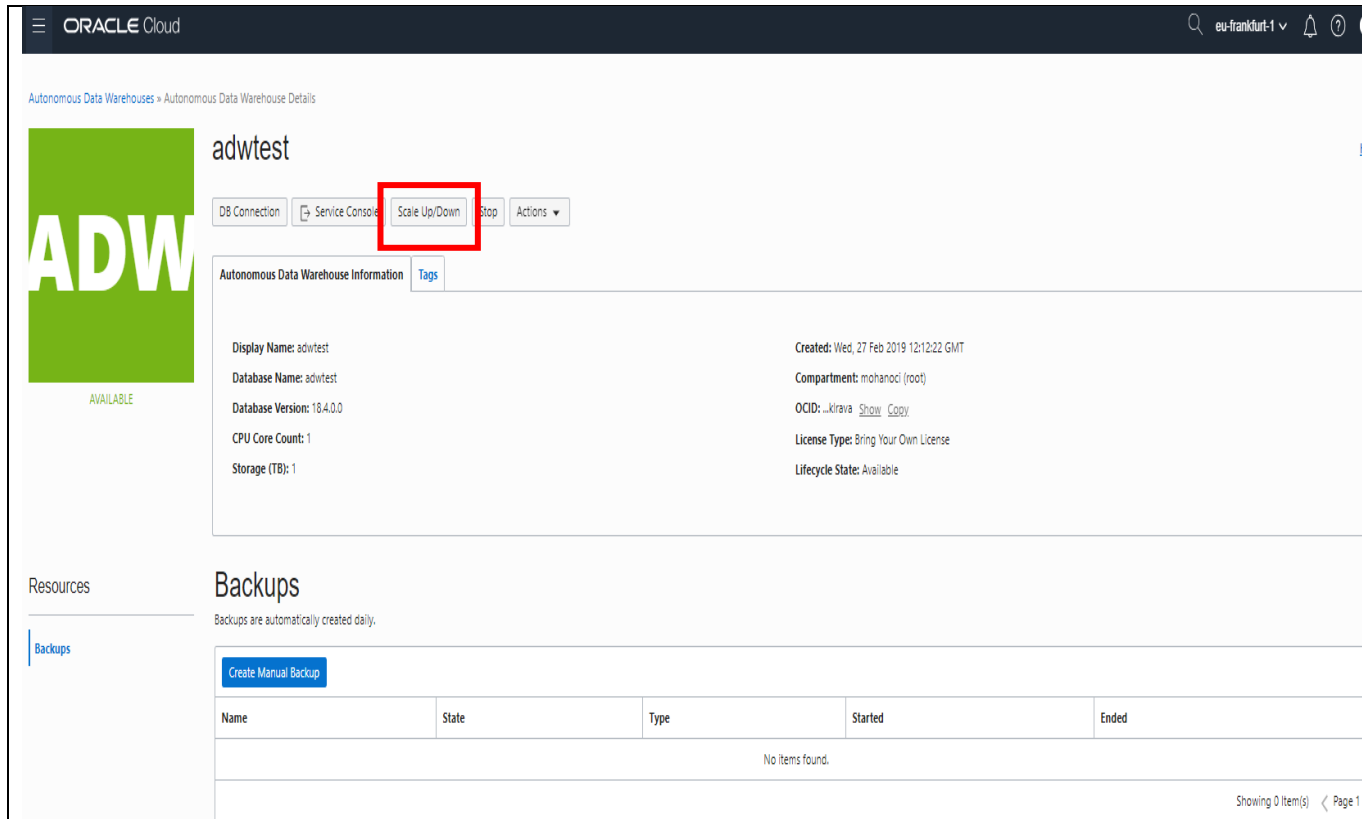
Autonomous Data Warehouses in mohanoci (root) Compartment

Name	State	Database Name	CPU Core Count	Storage (TB)
<a href="#">adwtest</a>	● Available	adwtest	1	1

7. State should change to “**Available**” in 2~3 minutes. Once state shows “Available”, it means ADW service is ready for use.

8. Please click database name

## Provisioning Autonomous Data Warehouse



The screenshot shows the Oracle Cloud console interface for an Autonomous Data Warehouse (ADW) named 'adwtest'. The top navigation bar includes the Oracle Cloud logo and the region 'eu-frankfurt-1'. The main content area displays the ADW details, including its status 'AVAILABLE', a green 'ADW' logo, and a 'Scale Up/Down' button highlighted with a red box. Below this, the 'Autonomous Data Warehouse Information' section provides details such as Display Name, Database Name, Database Version, CPU Core Count, and Storage (TB). The 'Backups' section indicates that backups are automatically created daily and provides a 'Create Manual Backup' button.

Autonomous Data Warehouses » Autonomous Data Warehouse Details

adwtest

DB Connection Service Console **Scale Up/Down** Stop Actions

Autonomous Data Warehouse Information Tags

Display Name: adwtest Created: Wed, 27 Feb 2019 12:12:22 GMT  
 Database Name: adwtest Compartment: mohanodi (root)  
 Database Version: 18.4.0.0 OCID: ...kirava [Show](#) [Copy](#)  
 CPU Core Count: 1 License Type: Bring Your Own License  
 Storage (TB): 1 Lifecycle State: Available

Resources

Backups

Backups are automatically created daily.

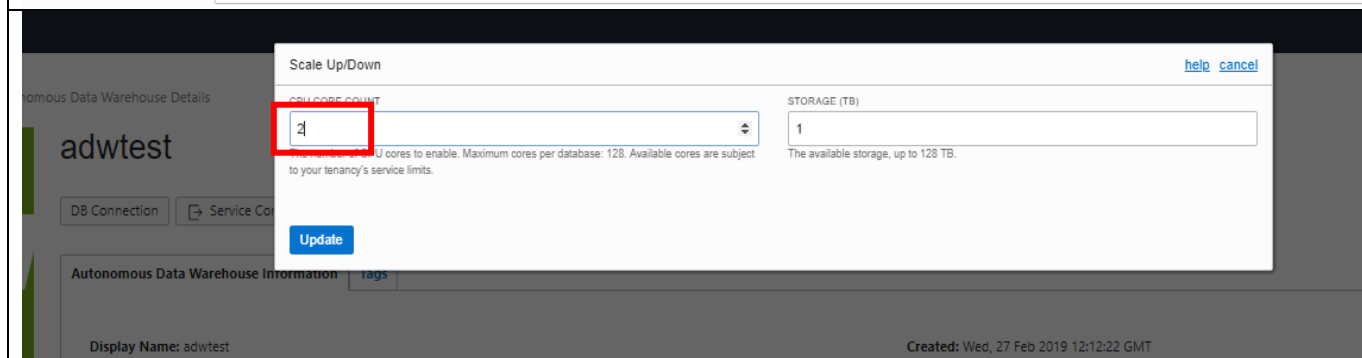
Create Manual Backup

Name	State	Type	Started	Ended
No items found.				

Showing 0 item(s) < Page 1 >

9. You can see details of ADW

10. You can test “**Scale up**” with ocpu or storage as we create ADW with the minimum configuration.



The screenshot shows the 'Scale Up/Down' dialog box for the ADW 'adwtest'. The dialog box has two input fields: 'CPU CORE COUNT' and 'STORAGE (TB)'. The 'CPU CORE COUNT' field is highlighted with a red box and contains the value '2'. The 'STORAGE (TB)' field contains the value '1'. Below the input fields, there is an 'Update' button. The background shows the ADW details page with the 'Scale Up/Down' button highlighted.

Scale Up/Down [help](#) [cancel](#)

CPU CORE COUNT

2

STORAGE (TB)

1

Update

Autonomous Data Warehouse Details

adwtest

DB Connection Service Console

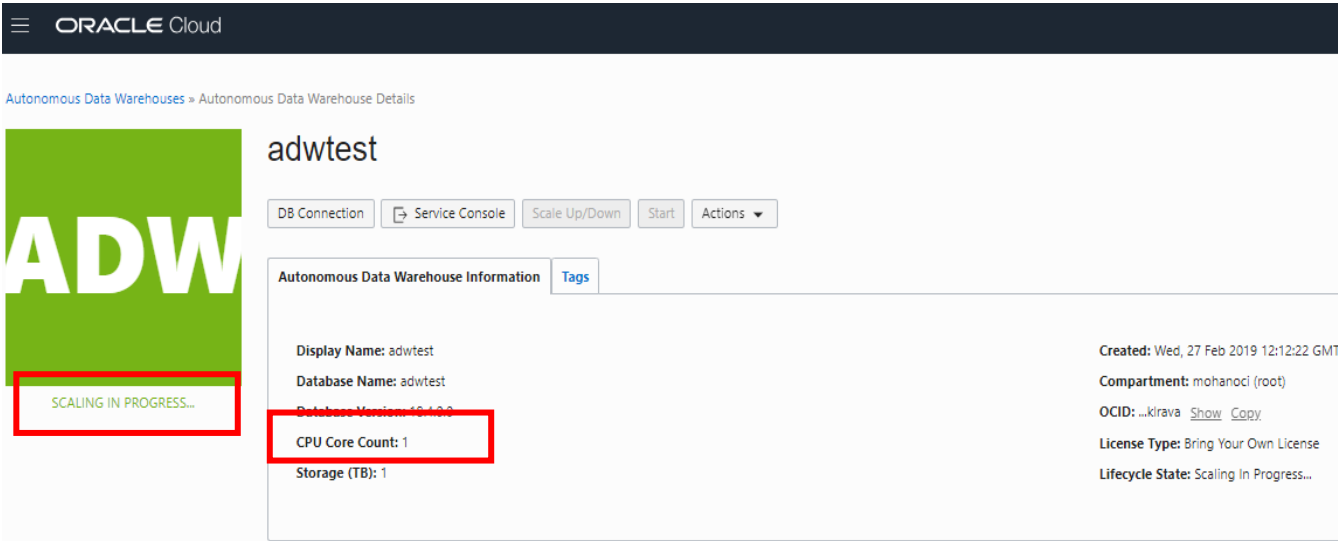
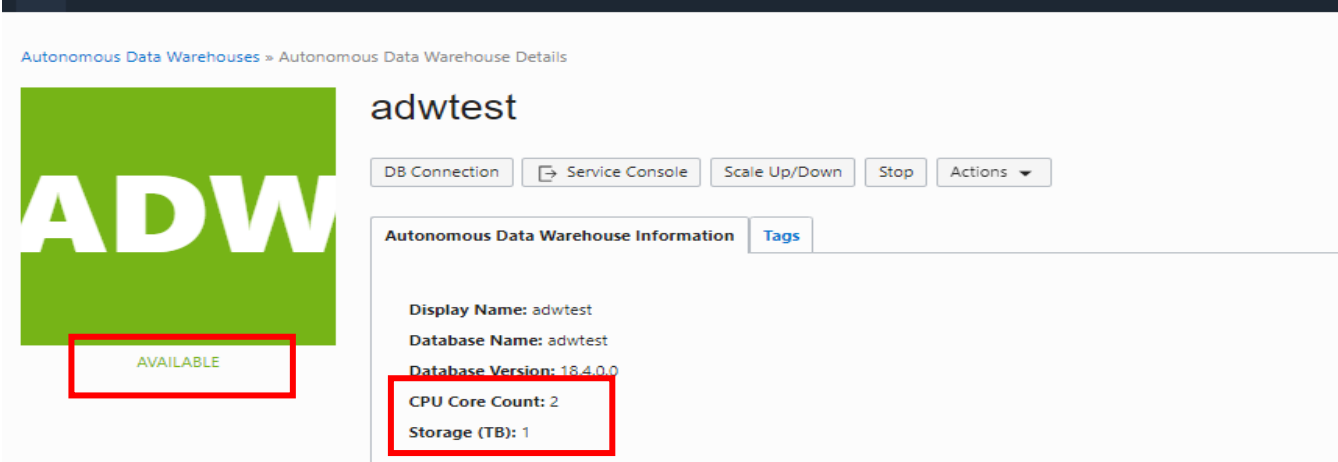
Autonomous Data Warehouse Information Tags

Display Name: adwtest Created: Wed, 27 Feb 2019 12:12:22 GMT

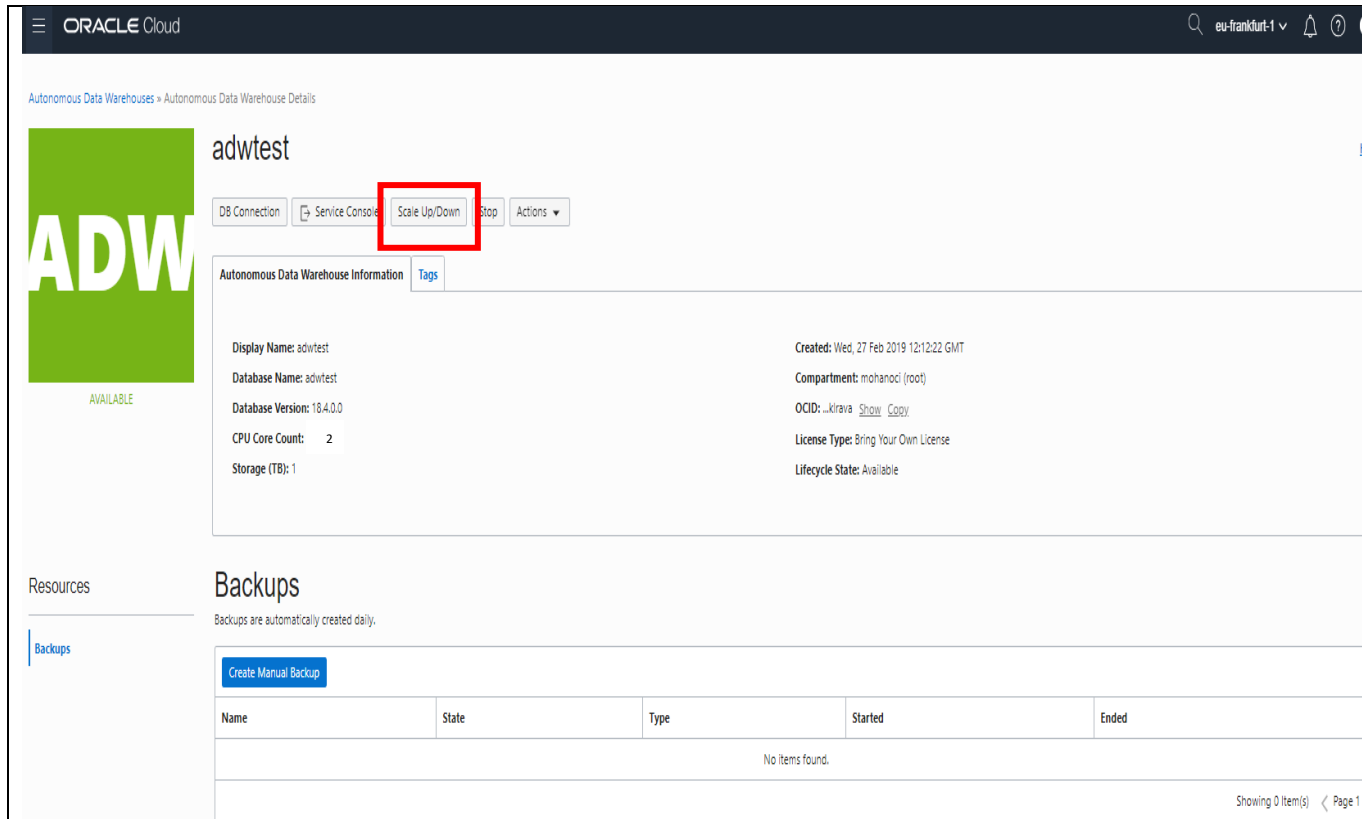
11. Scaling up ocpu from 1 to 2.



## Provisioning Autonomous Data Warehouse

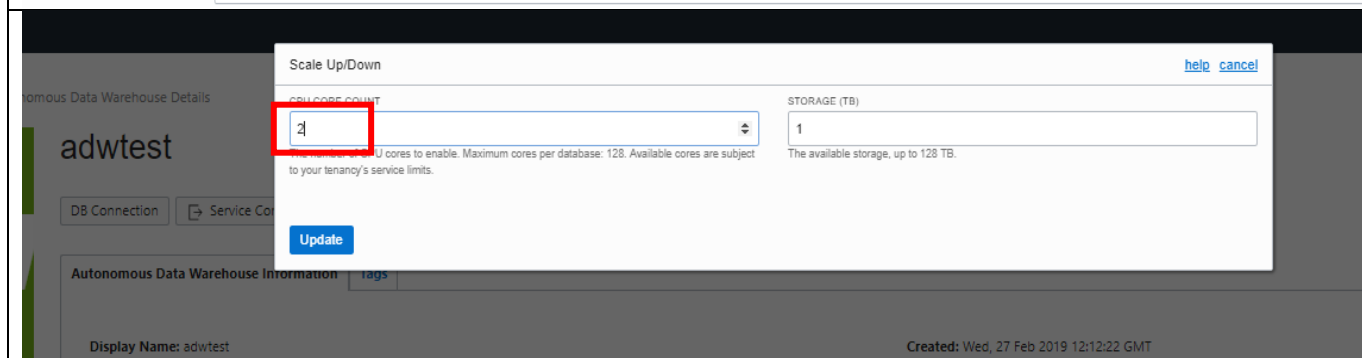
 <p>The screenshot shows the Oracle Cloud console for an Autonomous Data Warehouse named 'adwtest'. The status is 'SCALING IN PROGRESS...'. The CPU Core Count is 1. The Database Version is 18.4.0.0. The Lifecycle State is 'Scaling In Progress...'. The 'ADW' logo is visible on the left.</p>	<p>12. You can see <b>SCALING IN PROGRESS</b> and also see <b>ADW is available</b> as <b>GREEN</b> colour</p>
 <p>The screenshot shows the Oracle Cloud console for the same Autonomous Data Warehouse 'adwtest'. The status is 'AVAILABLE'. The CPU Core Count is 2. The Database Version is 18.4.0.0. The Lifecycle State is 'Available'. The 'ADW' logo is visible on the left.</p>	<p>13. It appears to be 2 ocpu now. ADW was continuously up and running while scaling up number of ocpu.</p>

## Provisioning Autonomous Data Warehouse



The screenshot shows the Oracle Cloud console interface for an Autonomous Data Warehouse (ADW) named 'adwtest'. The top navigation bar includes the Oracle Cloud logo and the region 'eu-frankfurt-1'. The main content area displays the ADW details, including its status 'AVAILABLE', a green 'ADW' logo, and a 'Scale Up/Down' button highlighted with a red box. Below this, the 'Autonomous Data Warehouse Information' section provides details such as Display Name, Database Name, Database Version, CPU Core Count (2), Storage (TB) (1), Created date, Compartment, OCID, License Type, and Lifecycle State. A 'Backups' section is also visible, indicating that backups are automatically created daily.

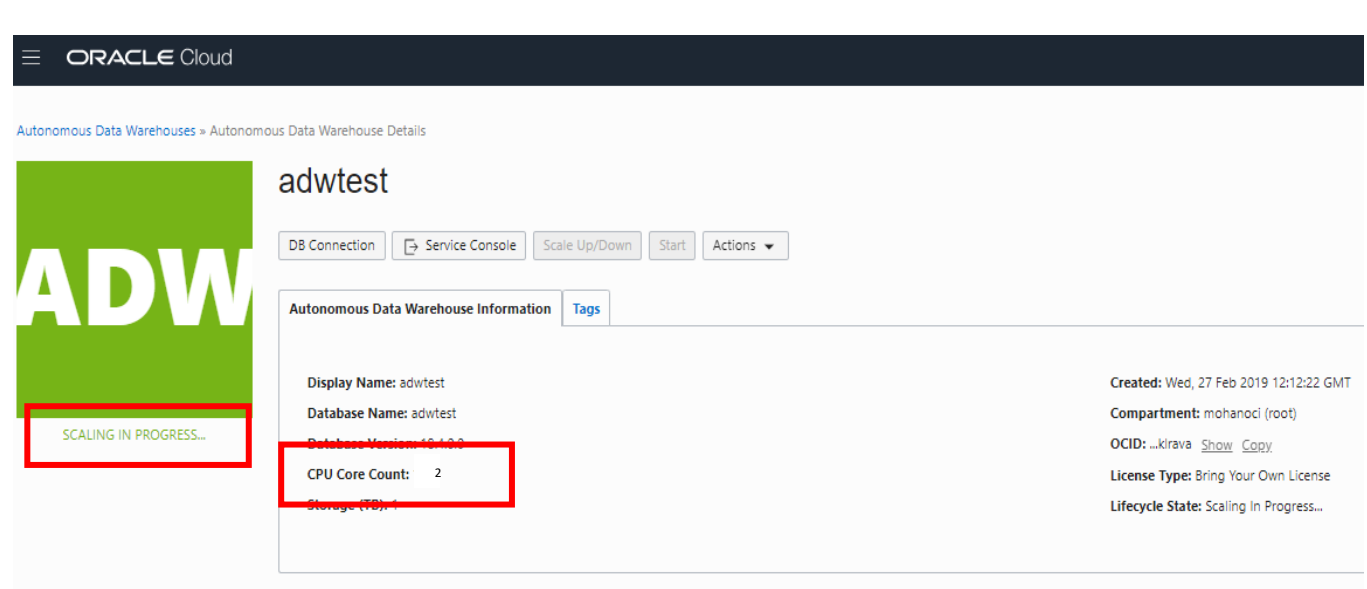
14. You can also test “Scale Down” with ocpu or storage as we create ADW with the minimum configuration.



The screenshot shows the 'Scale Up/Down' dialog box for the ADW 'adwtest'. The dialog box has two input fields: 'CPU CORE COUNT' and 'STORAGE (TB)'. The 'CPU CORE COUNT' field is highlighted with a red box and contains the value '1'. The 'STORAGE (TB)' field contains the value '1'. Below the input fields, there is an 'Update' button. The background shows the ADW details page with the 'adwtest' name and status.

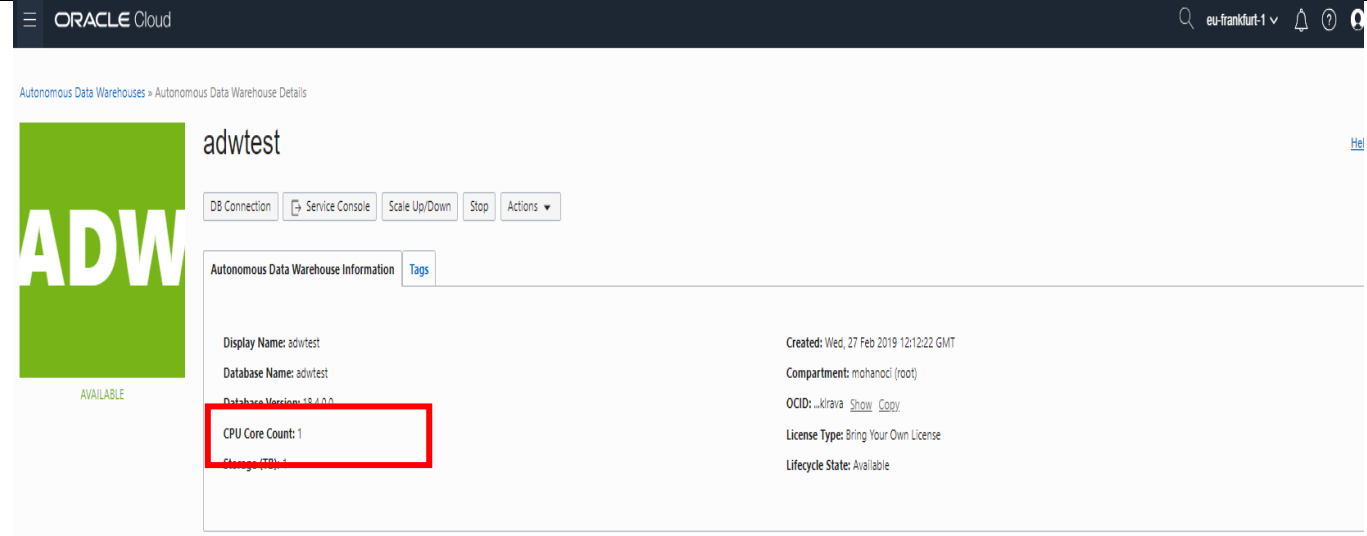
15. Scaling down ocpu from 2 to 1.

## Provisioning Autonomous Data Warehouse



Oracle Cloud console showing the details of an Autonomous Data Warehouse (ADW) named 'adwtest'. The status is 'SCALING IN PROGRESS...'. The CPU Core Count is 2. The lifecycle state is 'Scaling In Progress...'. The database version is 18.4.0.0.


16. You can see **SCALING IN PROGRESS** and also see **ADW is available** as **GREEN** colour




Oracle Cloud console showing the details of the same ADW 'adwtest'. The status is now 'AVAILABLE'. The CPU Core Count has been scaled down to 1. The lifecycle state is 'Available'.

17. It appears to be 1 ocpu now. ADW was continuously up and running while scaling down number of ocpu.

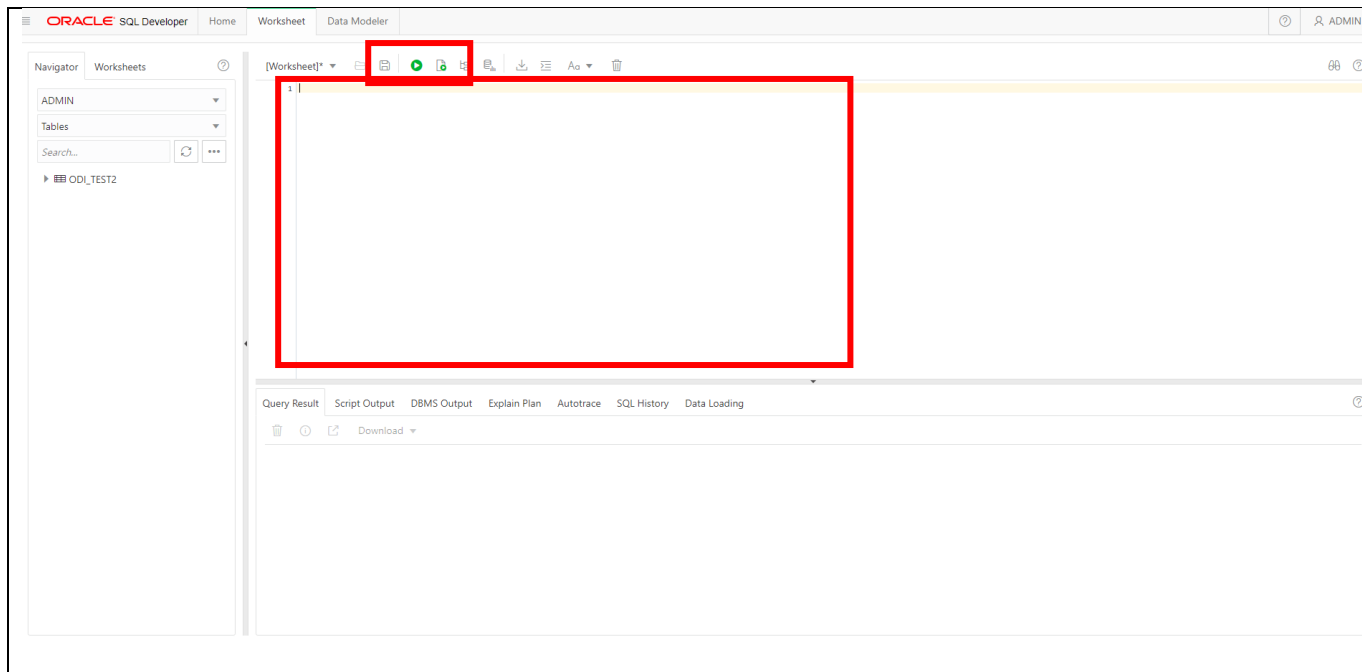
甲骨文漫遊雲端體驗日  
Provisioning Autonomous Data Warehouse

<p>自治式資料庫 » 自治式資料庫詳細資訊</p> <div><p>可用</p></div> <h2>DBODI_Test</h2> <div><a href="#">資料庫連線</a> <a href="#">效能中心</a> <a href="#">服務主控台</a> <a href="#">繼續擴展/縮減</a> <a href="#">其他動作</a></div> <div><a href="#">自治式資料庫資訊</a> <a href="#">工具</a> <a href="#">標記</a></div> <div><h3>一般資訊</h3><p>資料庫名稱: DB202003021140 工作負載類型: 資料倉儲 區間: meitaiwan3 (根) OCID: ...xoqrqa <a href="#">顯示</a> <a href="#">複製</a> 建立時間: 2020年3月2日 週一 03:46:35 [UTC] OCPU 數目: 1 儲存: 1 TB</p></div> <div><h3>基礎架構</h3><p>專屬基礎架構: 否</p><h3>備份</h3><p>上次自動備份: 2020年3月3日 週二 22:01:26 [UTC]</p><h3>網路</h3><p>存取類型: 允許來自任何位置的安全存取</p></div>	<p>18. Click on Service Console</p>
<div><h3>Autonomous Data Warehouse</h3><ul style="list-style-type: none"><li>Overview</li><li>Activity</li><li>Administration</li><li>Development</li></ul><p>DATABASE DB202003021140</p></div> <div><h4>Download Oracle Instant Client</h4><p>This is a free, light-weight set of tools, libraries and SDKs for building and connecting applications. These libraries underly the Oracle APIs of languages including Node.js, Python and PHP and provide access for OCI, OCCI, JDBC, ODBC and Pro*C applications. Tools such as SQL*Plus and Oracle Data Pump are also included - Oracle recommends using this version of Data Pump for moving existing Oracle Database schemas to Autonomous Data Warehouse.</p></div> <div><h4>Oracle APEX</h4><p>Oracle APEX is a low code application development framework for building and deploying world-class data centric applications. APEX provides an easy-to-use browser-based environment to load data, manage database objects, develop REST interfaces, and build applications which look and run great on both desktop and mobile devices.</p></div> <div><h4>SQL Developer Web</h4><p>Oracle SQL Developer web provides a browser-based integrated development environment and administration interface for Oracle Autonomous Database. It provides a subset of the features available in the desktop product.</p></div>	<p>19. Click on SQL Developer Web</p>

<div data-bbox="197 199 396 252"> <b>ORACLE</b> SQL Developer Web</div> <div data-bbox="645 279 1070 494"><p>Username</p><input data-bbox="660 319 1059 355" type="text" value="Admin"/><p>Password</p><input data-bbox="660 387 1059 424" type="password" value="....."/><p><input data-bbox="660 435 1059 483" type="button" value="Sign in"/></p></div>	<p>20. Key in the Username and Password</p>
---	---

甲骨文漫遊雲端體驗日

## Provisioning Autonomous Data Warehouse



21. You can try run some Query Command here

1. Paste the command in the Worksheet

```
select  
sum(lo_extendedprice*lo_discount)  
as revenue  
from ssb.lineorder, ssb.dwdate  
where lo_orderdate = d_datekey  
and d_yearmonthnum = 199401  
and lo_discount between 4 and 6  
and lo_quantity between 26 and  
35;
```

2. Click on Run