

Project Name: Data warehousing with IBM  
db2 warehouse

cloud

Phase : 3

To build a data warehouse using IBM Cloud Foundry, you will need to:

1. Create a Cloud Foundry application.
2. Bind a cloud data warehouse service to your application.
3. Deploy your data warehouse application.
4. Load data into your data warehouse.
5. Run queries against your data warehouse.

## **1. Create a Cloud Foundry application**

To create a Cloud Foundry application, you can use the IBM Cloud console or the Cloud Foundry CLI.

Using the IBM Cloud console:

1. Go to the Cloud Foundry Public tile.
2. Click Applications.
3. Click Create App.
4. Give your application a name and choose a runtime.
5. Click Create.

Using the Cloud Foundry CLI:

```
cf create-app <app-name> <runtime>
```

## **2. Bind a cloud data warehouse service to your application**

IBM Cloud Foundry offers a variety of cloud data warehouse services, including IBM Db2 Warehouse on Cloud and IBM Cloud SQL.

To bind a cloud data warehouse service to your application:

1. Go to the Services tab in the Cloud Foundry console.
2. Click the Create Service button.
3. Select the cloud data warehouse service that you want to bind to your application.
4. Give your service instance a name and choose a plan.
5. Click Create.

Once your service instance is created, you can bind it to your application:

1. Go to the Applications tab in the Cloud Foundry console.
2. Click the name of your application.
3. Click the Bind Services tab.
4. Click the Bind Service button.
5. Select the cloud data warehouse service instance that you want to bind to your application.
6. Click Bind.

### **3. Deploy your data warehouse application**

To deploy your data warehouse application, you can use the IBM Cloud console or the Cloud Foundry CLI.

Using the IBM Cloud console:

1. Go to the Applications tab in the Cloud Foundry console.
2. Click the name of your data warehouse application.
3. Click the Deploy button.
4. Select the Push option.
5. Click Deploy.

Using the Cloud Foundry CLI:

```
cf push
```

### **4. Load data into your data warehouse**

Once your data warehouse application is deployed, you can load data into it using a variety of methods, such as:

- Importing data from a CSV file.

- Using a data loader tool.
- Connecting to a database and replicating the data.

## 5. Run queries against your data warehouse

Once you have loaded data into your data warehouse, you can run queries against it to extract insights. You can use a variety of tools to run queries against your data warehouse, such as:

- SQL clients.
- Business intelligence tools.
- Data science tools.

Here is an example of a simple SQL query that you could run against your data warehouse:

### SQL

```
SELECT customer_id, SUM(order_total) AS total_spent
FROM orders
GROUP BY customer_id
ORDER BY total_spent DESC
LIMIT 10;
```

Use code with caution. [Learn more](#)

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This query would return the top 10 customers by total spent.

## Conclusion

IBM Cloud Foundry provides a simple and efficient way to build and deploy a data warehouse. By following the steps above, you can get started with building your own data warehouse today.

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