

INTRODUCTION ABOUT CDBC

A .NET library help your application connect to cloud database

Research Institute of Cloud Computing Technology

<https://www.ricct.com>



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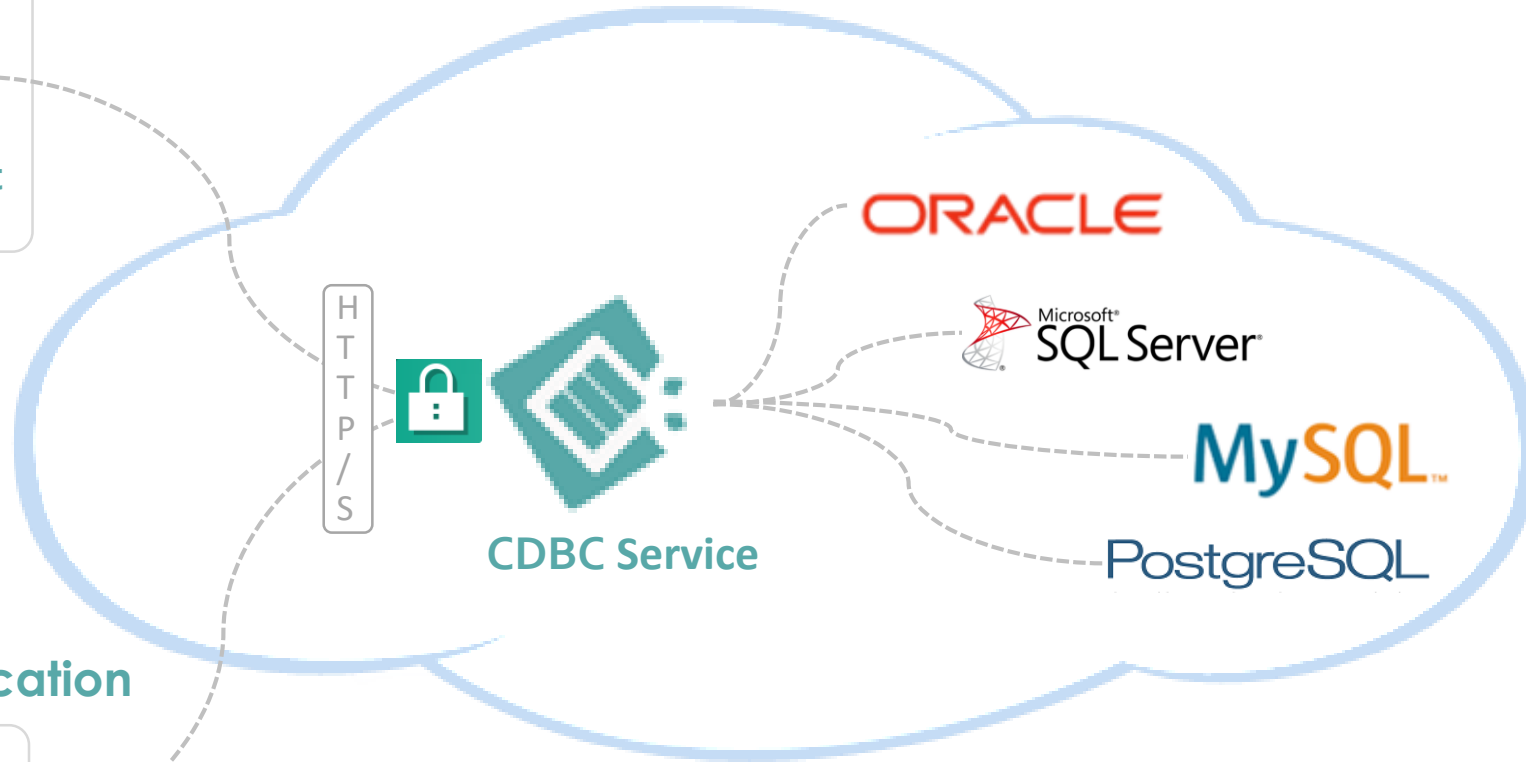
Cloud DataBase Connectivity(CDBC) is a .NET library which can help your application connect to cloud database.

FEATURES AND DIAGRAM

.Net Web Application



.Net Windows Application



Can be run on



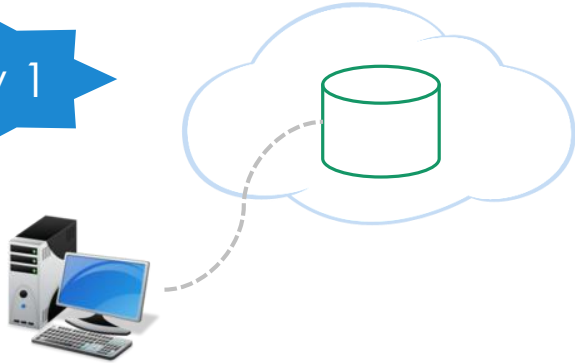
Oracle Cloud

Google Cloud

HOW TO CONNECT TO CLOUD DATABASE NOW

There are several ways enable your native application connect to cloud Database.

Way 1

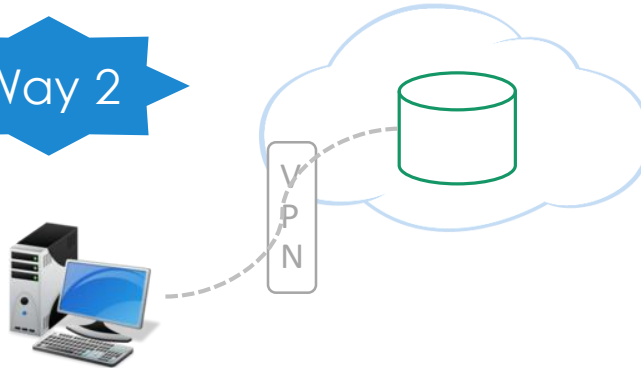


Connect DB with Public IP



Not Secure.
Nobody use
this way in their
products.

Way 2

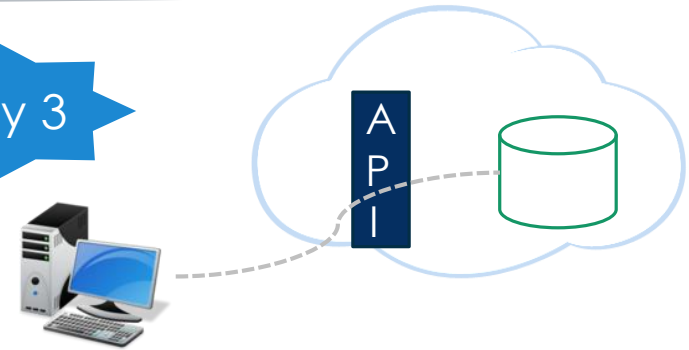


Setup VPN for each user



Complex.
Cost to much to
setup and
management.

Way 3



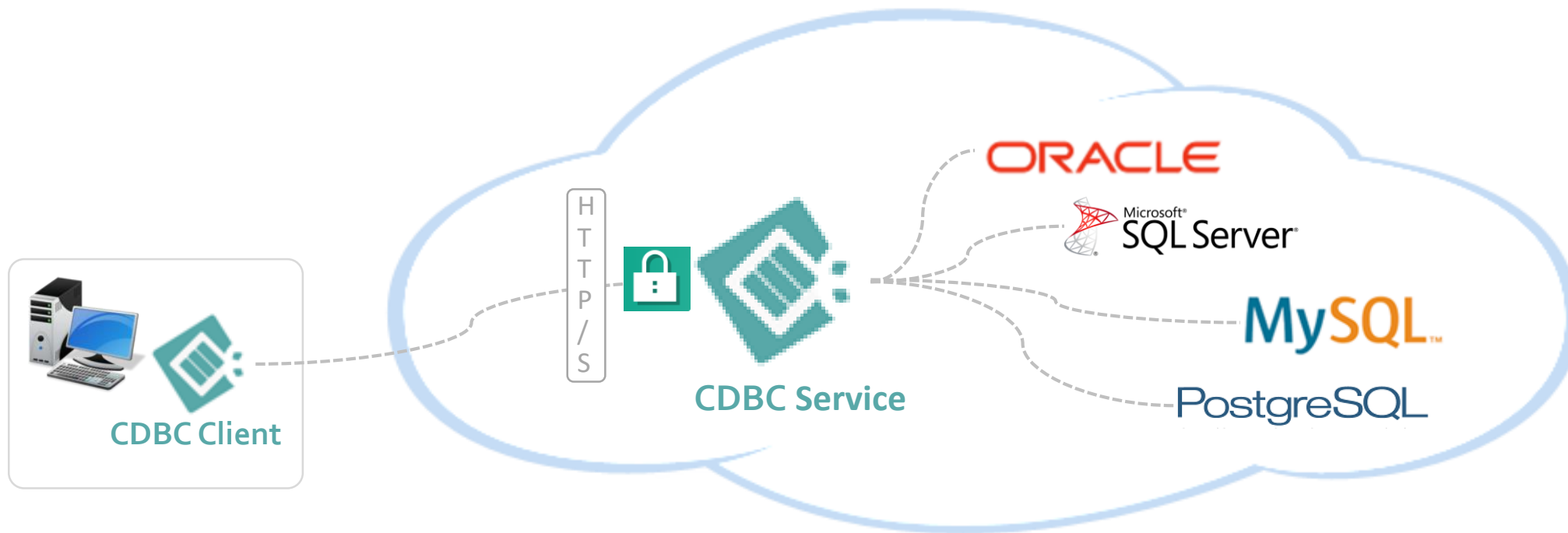
Create API for each function



**To much
development cost.**
Need endpoints
for each function.

CDBC will solve the problems.

WHY CDBC



Secure



Simple



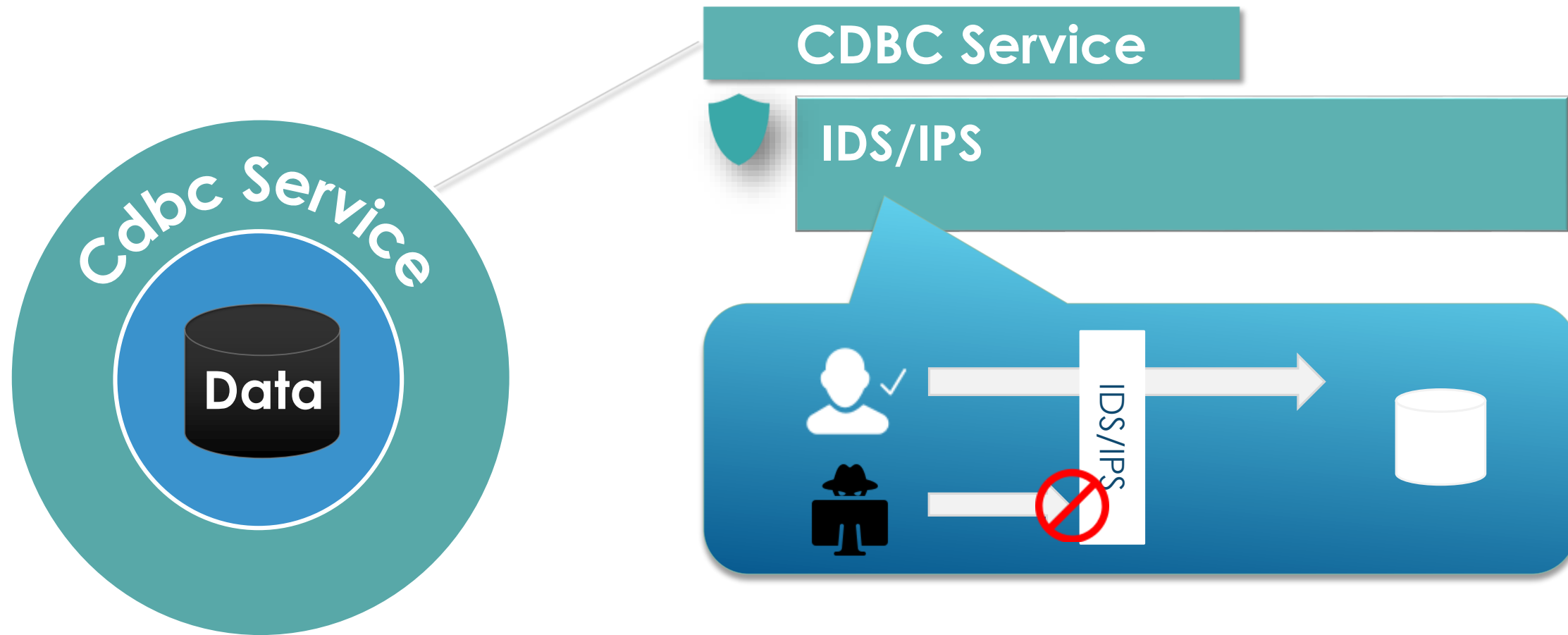
Easy

**High
Security**

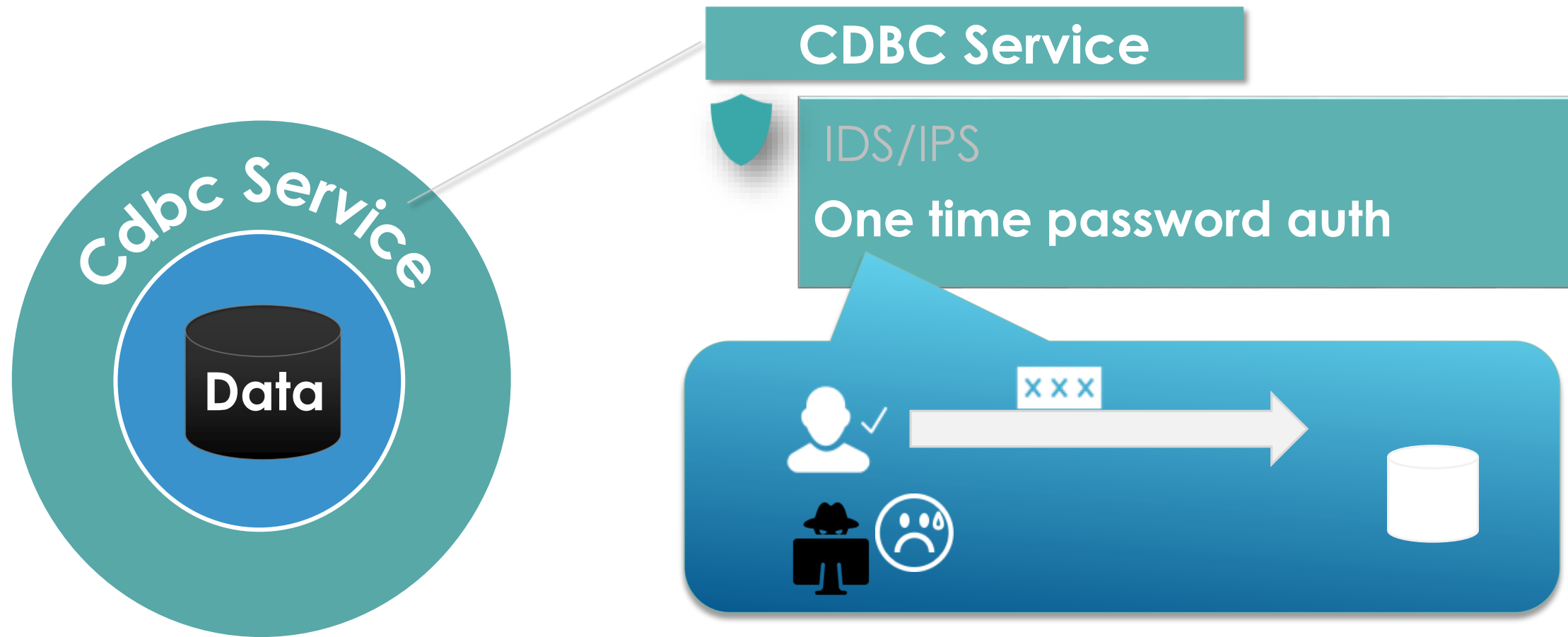
**High
Performance**

**Easy
Development**

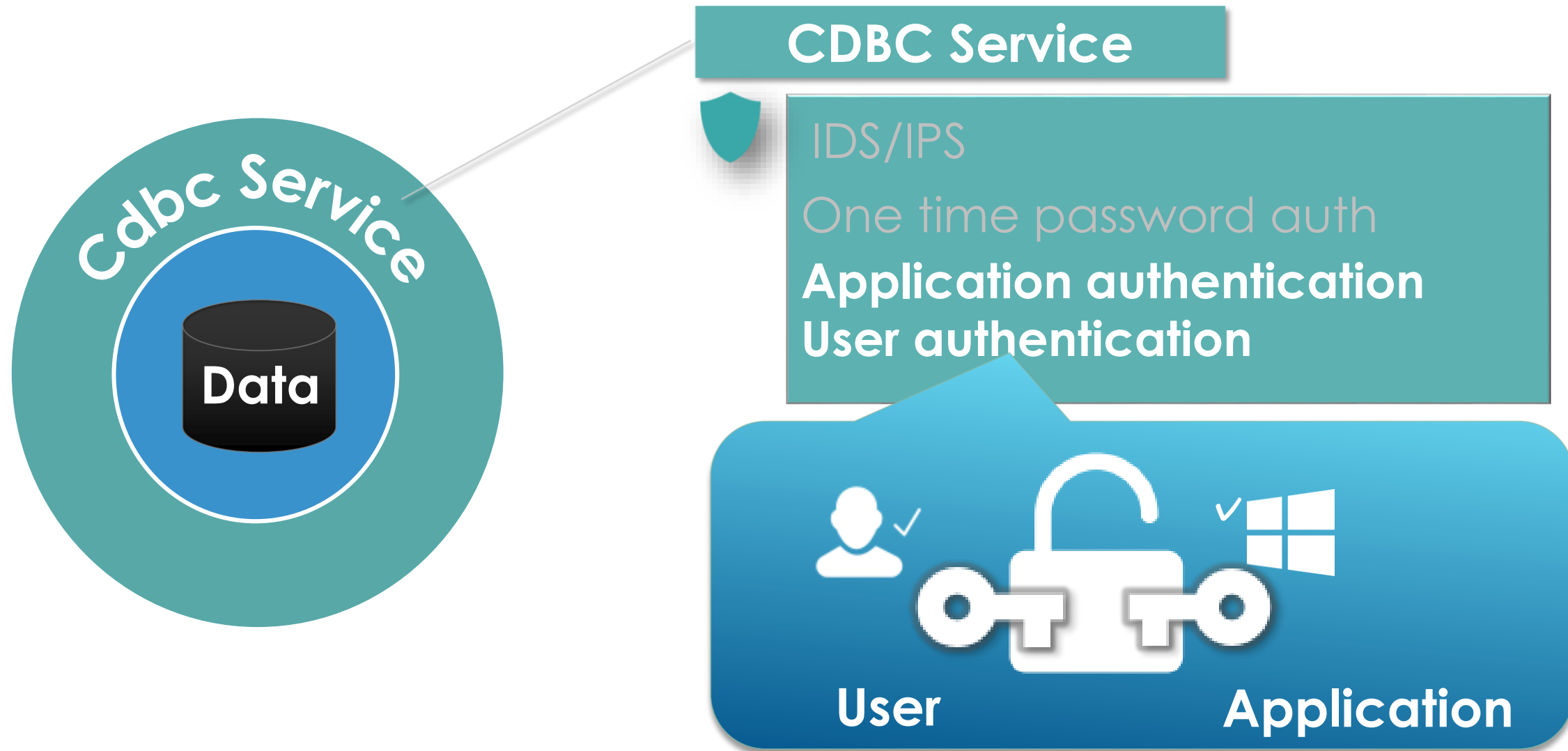
SECURITY - DEFENSE IN DEPTH



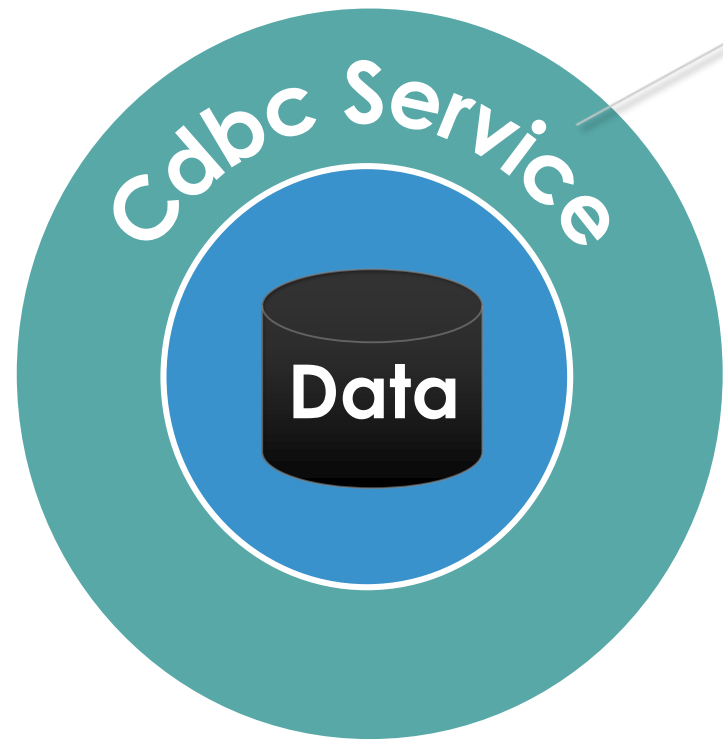
SECURITY - DEFENSE IN DEPTH



SECURITY - DEFENSE IN DEPTH



SECURITY - DEFENSE IN DEPTH



CDBC Service



IDS/IPS

One time password auth

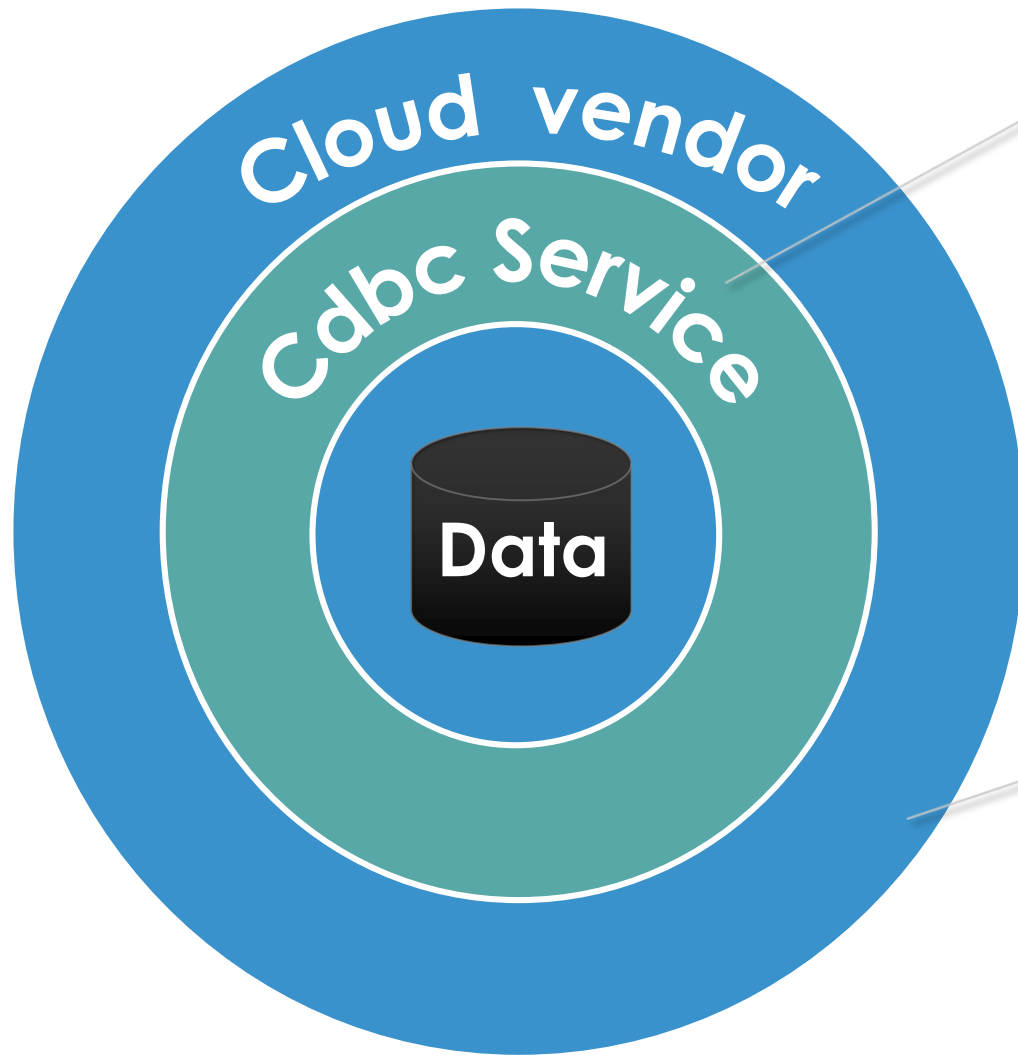
Application authentication

User authentication

End-to-end encryption



SECURITY - DEFENSE IN DEPTH



CDBC Service



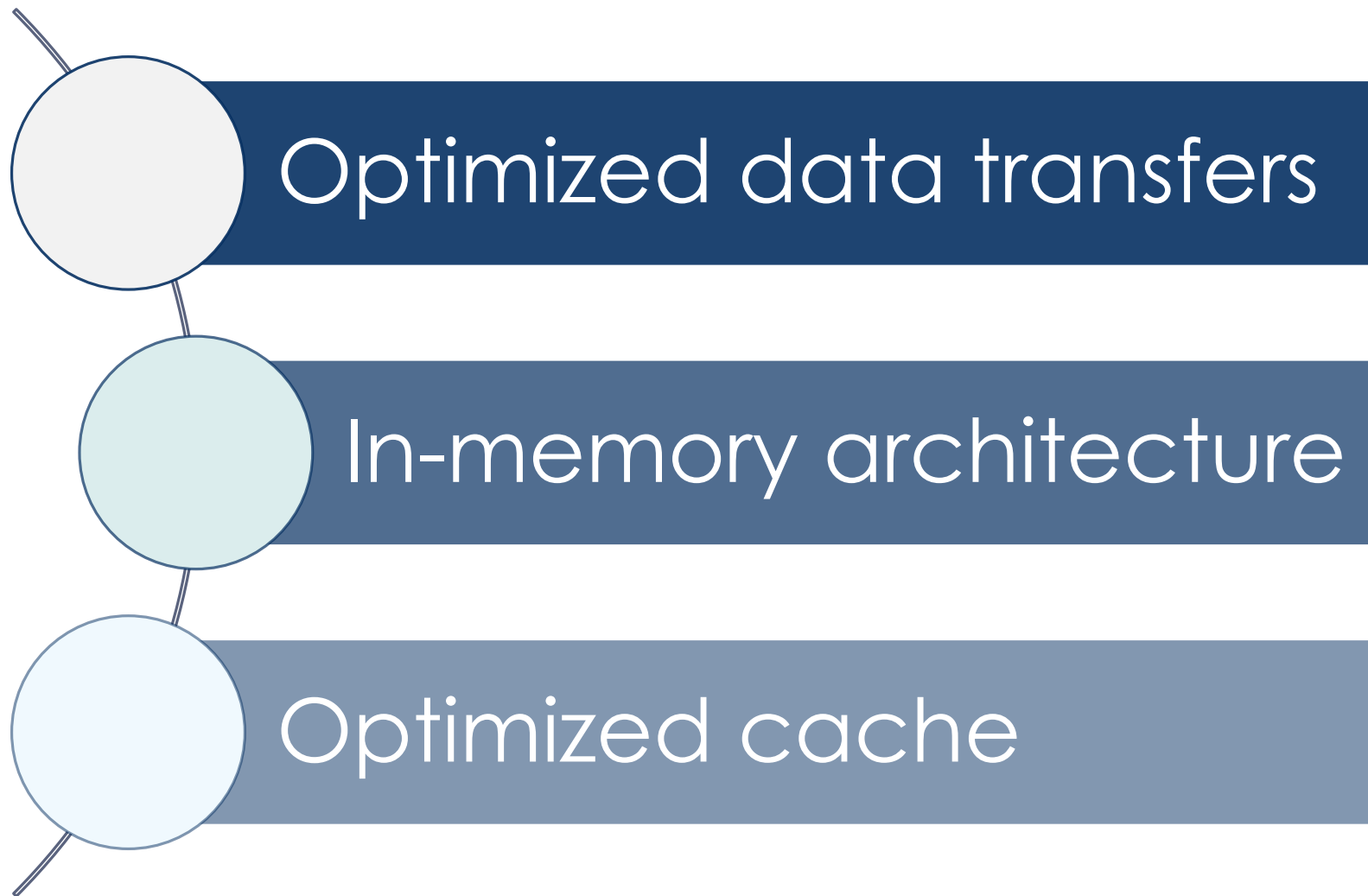
IDS/IPS

One time password auth
Application authentication
User authentication
End-to-end encryption

Cloud vendor



DDoS defense , ACL , WAF etc.



EASY DEVELOPMENT

CDBC has same syntax as ODP.net, SqlClient , MySQL Connector/NET and Npgsql.

ODP.net Code

```
OracleConnection con= getConnection();  
string strSQL = "delete from emp where empno=:empno";  
  
OracleCommand cmd = new OracleCommand(strSQL, con);  
OracleParameter para = new OracleParameter(":empno",  
    OracleDbType.Varchar2);  
para.Value = "0001";  
cmd.Parameters.Add(para);  
  
cmd.ExecuteNonQuery();
```

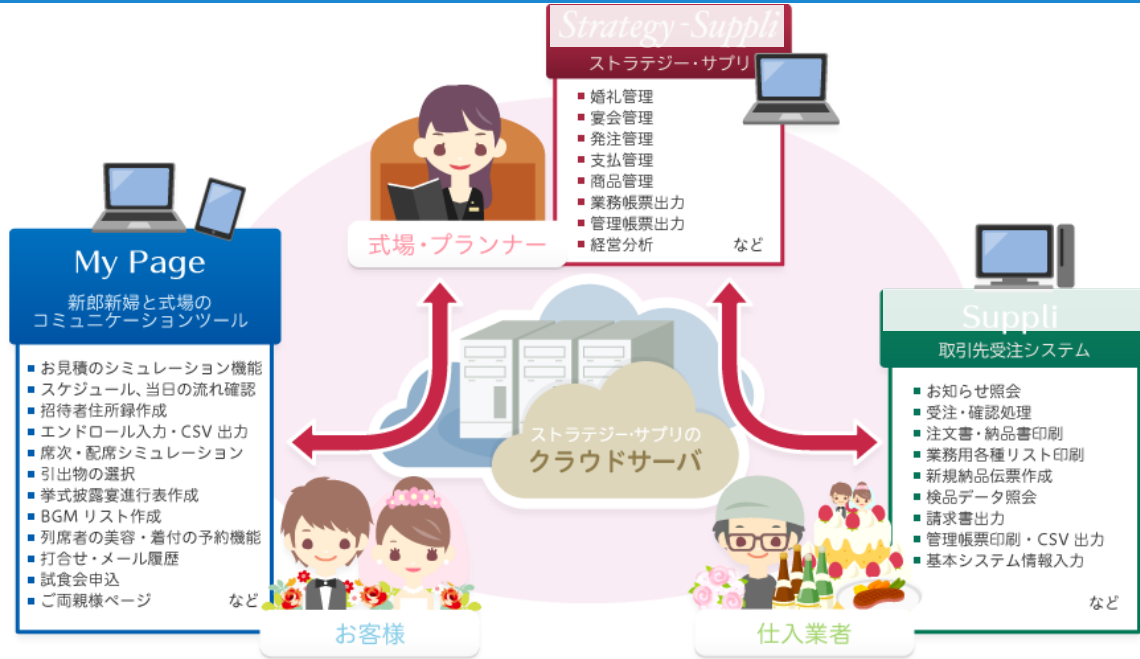
CDBC Code

```
CdbcConnection con= getConnection();  
string strSQL = "delete from emp where empno=:empno";  
  
CdbcCommand cmd = new CdbcCommand(strSQL, con);  
CdbcParameter para = new CdbcParameter(":empno",  
    CdbcOracleDbType.Varchar2);  
para.Value = "0001";  
cmd.Parameters.Add(para);  
  
cmd.ExecuteNonQuery();
```

No additional study cost if you have experience on ODP.net , SqlClient etc.

CASE - BRIDAL SYSTEM IN JAPAN

System summary



It is a Integrated bridal system used by hotels , suppliers and couples developed by .net .
Hotel system is windows native application and others are web application.

Users



50+
Hotels



1000+
Suppliers



4000+
Couples/Year

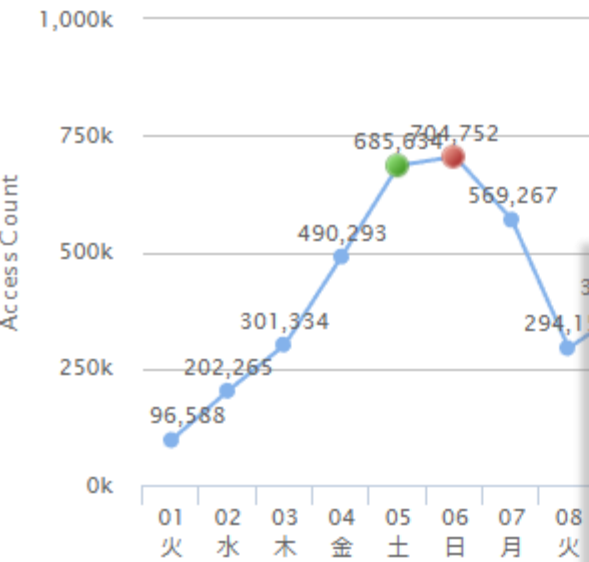
Why CDBC

- Easy development.
- Centralize database access from multi application.
- High security.
- Securely provide service without complex work.

CASE - BRIDAL SYSTEM ACCESS CHART

Access Count Trent

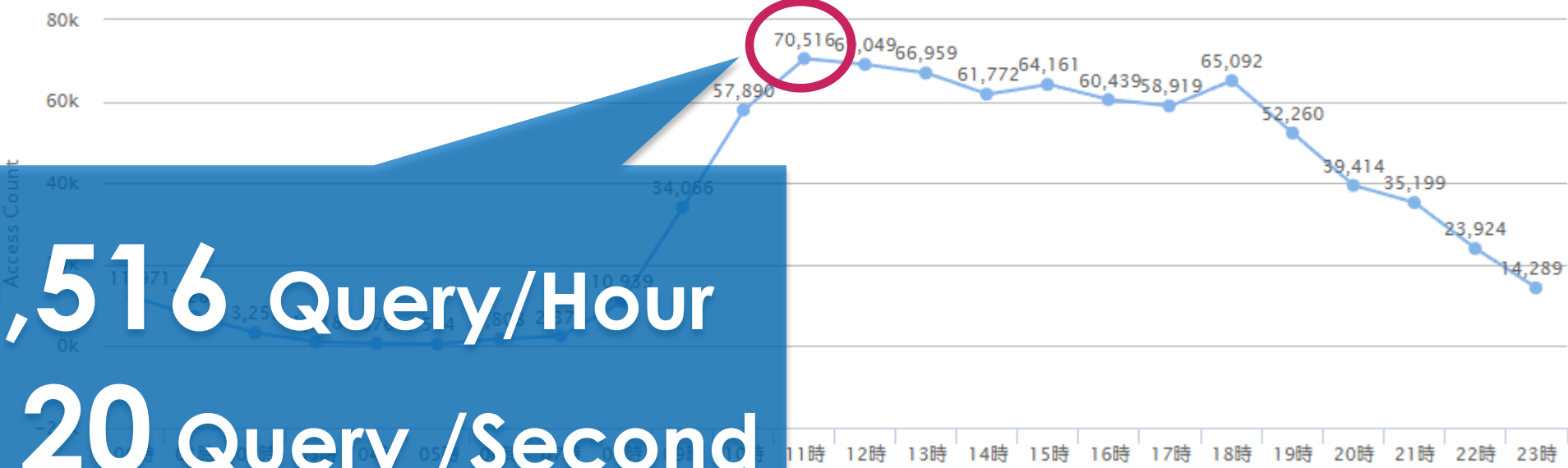
2019年01月



813,823 Query/Day

Access Count Trent

2019年01月14日(月)



70,516 Query/Hour
Ave 20 Query /Second

CDBC provide a new way for .net application while using cloud database.

Secure

Simple

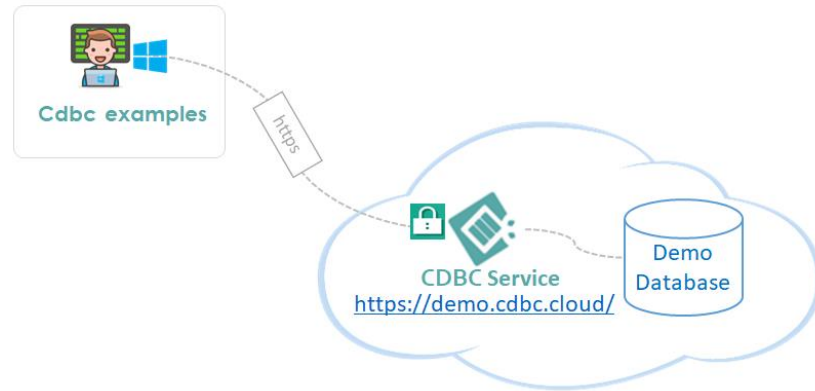
Easy

**Lift and shift
Your
application to
Cloud**

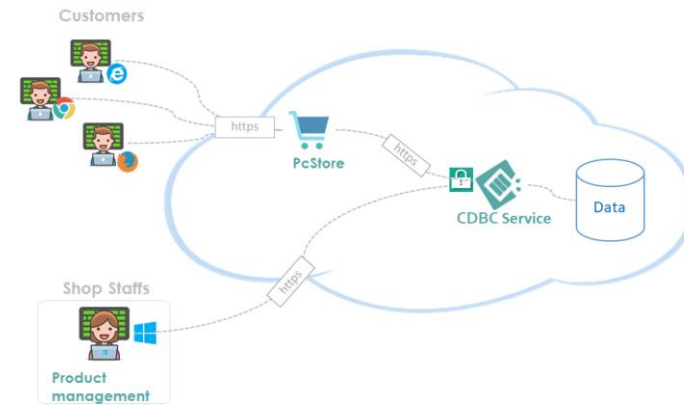
**Cloud native
development**

<https://demo.cdbc.cloud/>

CDBC Client Sample Code



Sample online shopping site and management system using CDBC architecture.



THANK YOU.





CDBC

Cloud DataBase Connectivity

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