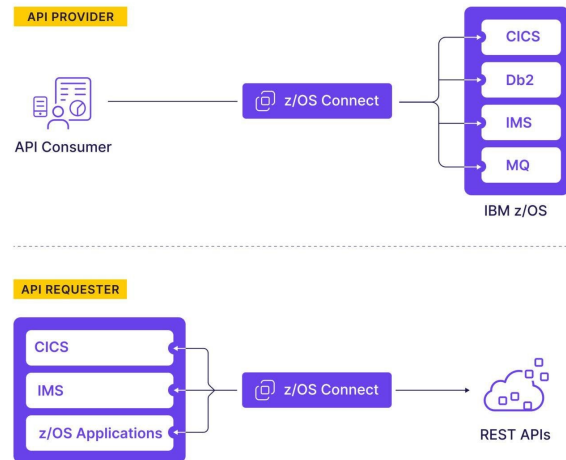


Using z/OS Connect as RESTful APIs to access IMS Segments

IBM z/OS Connect

IBM z/OS Connect is a low code tool for creating RESTful APIs to and from their IBM Z applications and data.



What does z/OS Connect do?

IBM z/OS Connect acts as a **bridge between REST/JSON applications and z/OS applications/data**.

For example, a Java application might send:

```
GET /customers/12345
```

And Receive

```
{
  "customerId": "12345",
  "customerName": "Ravi Kumar",
  "accountNo": "987654",
  "balance": 25000
}
```

What happens behind the scenes?

Suppose the user wants customer 12345.

Step 1 — Mobile/Web application

The application sends:

GET /customers/12345

Step 2 — z/OS Connect

z/OS Connect receives the REST request.

It understands things such as:

HTTP REST JSON API

and maps the request to the appropriate z/OS service.

Step 3 — IMS processing

The IMS application/service performs the required IMS database operation.

Customer ID = 12345



IMS GU



CUSTOMER segment



Retrieve customer data

Step 4 — IMS returns the segment

CUSTOMER-ID = 12345 CUSTOMER-NAME = RAVI KUMAR CUSTOMER-
TYPE = P

Step 5 — z/OS Connect returns REST response

The information can be represented as JSON:

```
{  
  "customerId": "12345",  
  "customerName": "RAVI KUMAR",  
  "customerType": "P"  
}
```

The modern application sees **REST/JSON**, while the Mainframe side continues using **IMS**.

A modern architecture can be:

Mobile App (or) Web App



REST API



z/OS Connect



IMS Application



IMS DB