

# Move Redshift Data to Salesforce



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# What is Heroku?

Cloud Application Platform to Build Modern Apps

## Best-in-class Developer Experience

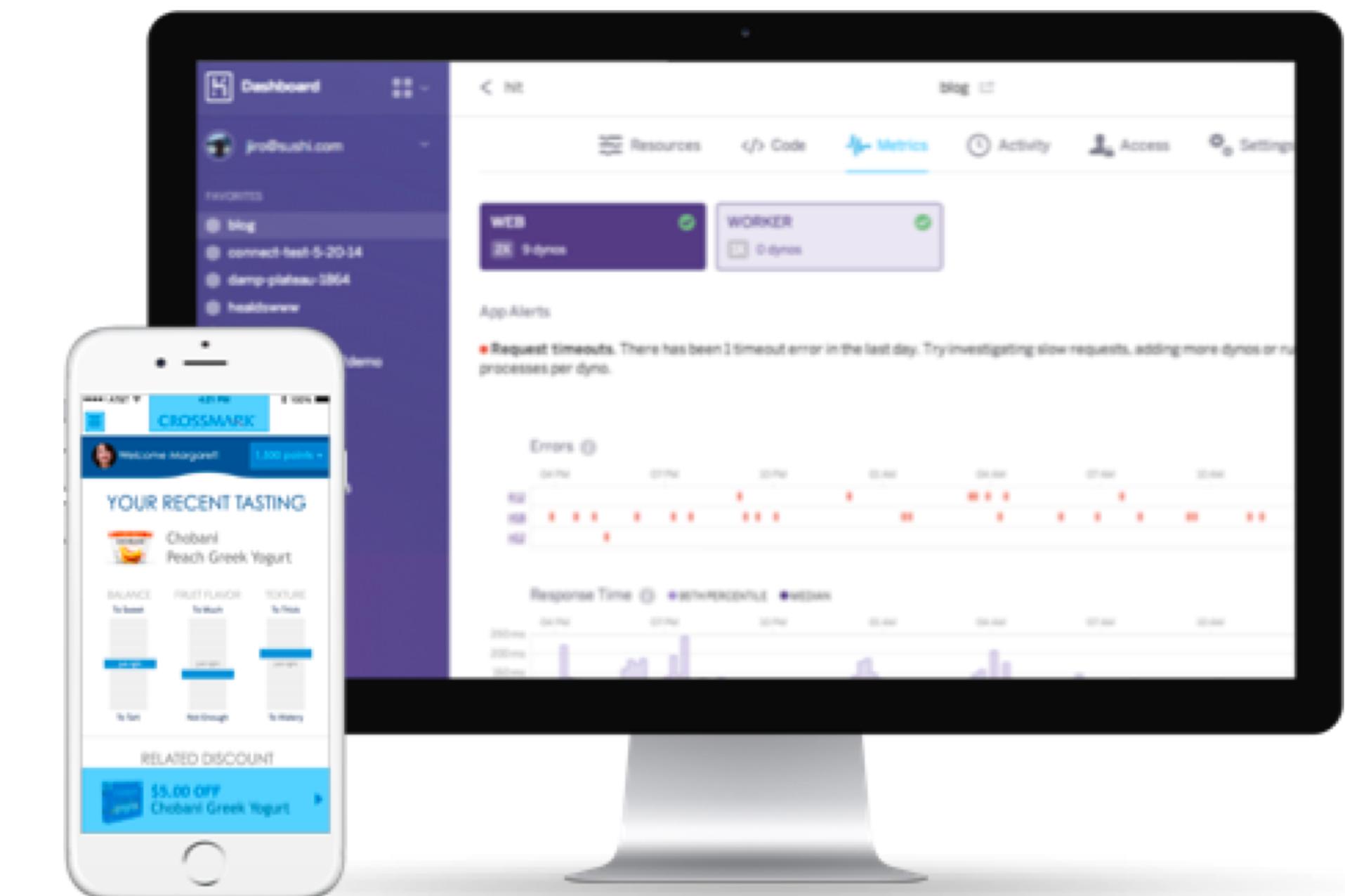
Allows developers to focus on code, not infrastructure

## Open and Extensible

Build apps in any modern language and leverage an ecosystem of over 150 add-ons

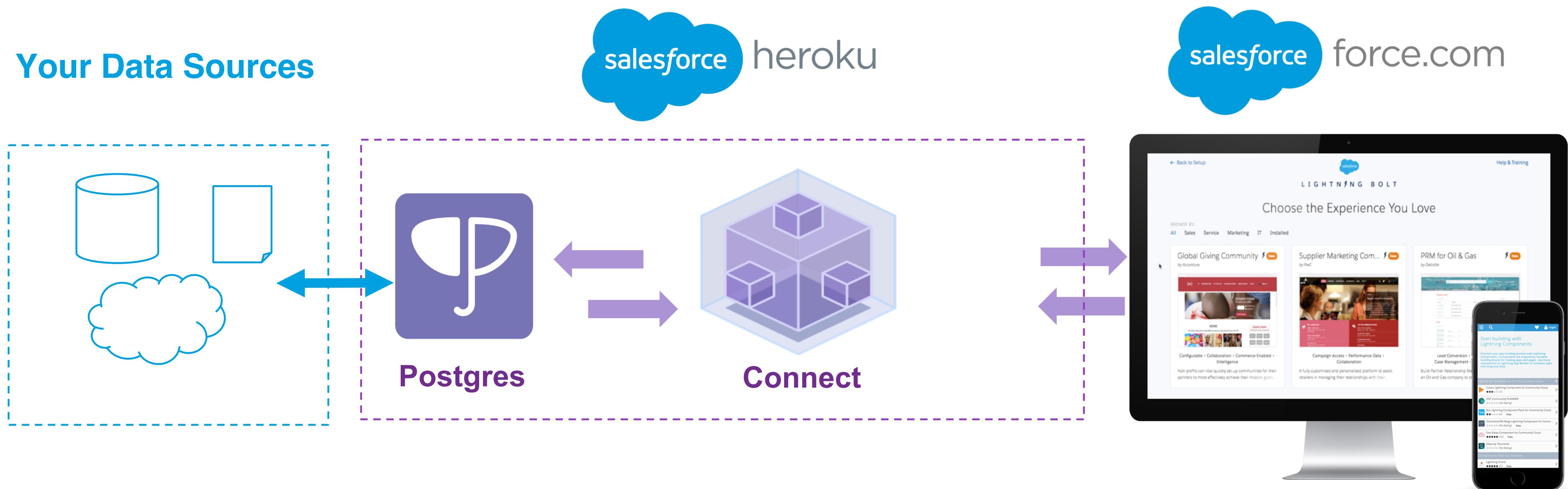
## \*Connected to Salesforce\*

Easy connectivity to Salesforce data creates a single view of the customer



# Heroku Connect Syncs Directly to Salesforce Apps

Seamless Two-way Data Flow



# Heroku is built 100% on AWS

Heroku serves as a managed service provider on top of AWS, implementing AWS best practices in architecting, deploying, and scaling enterprise services on top of underlying AWS infrastructure.



# Configuration Options

- ❖ ***Trusted IP Link***

AWS keeps traffic internal to the [AWS Region](#) rather than routing it over the public Internet.

- ❖ ***VPC Peering***

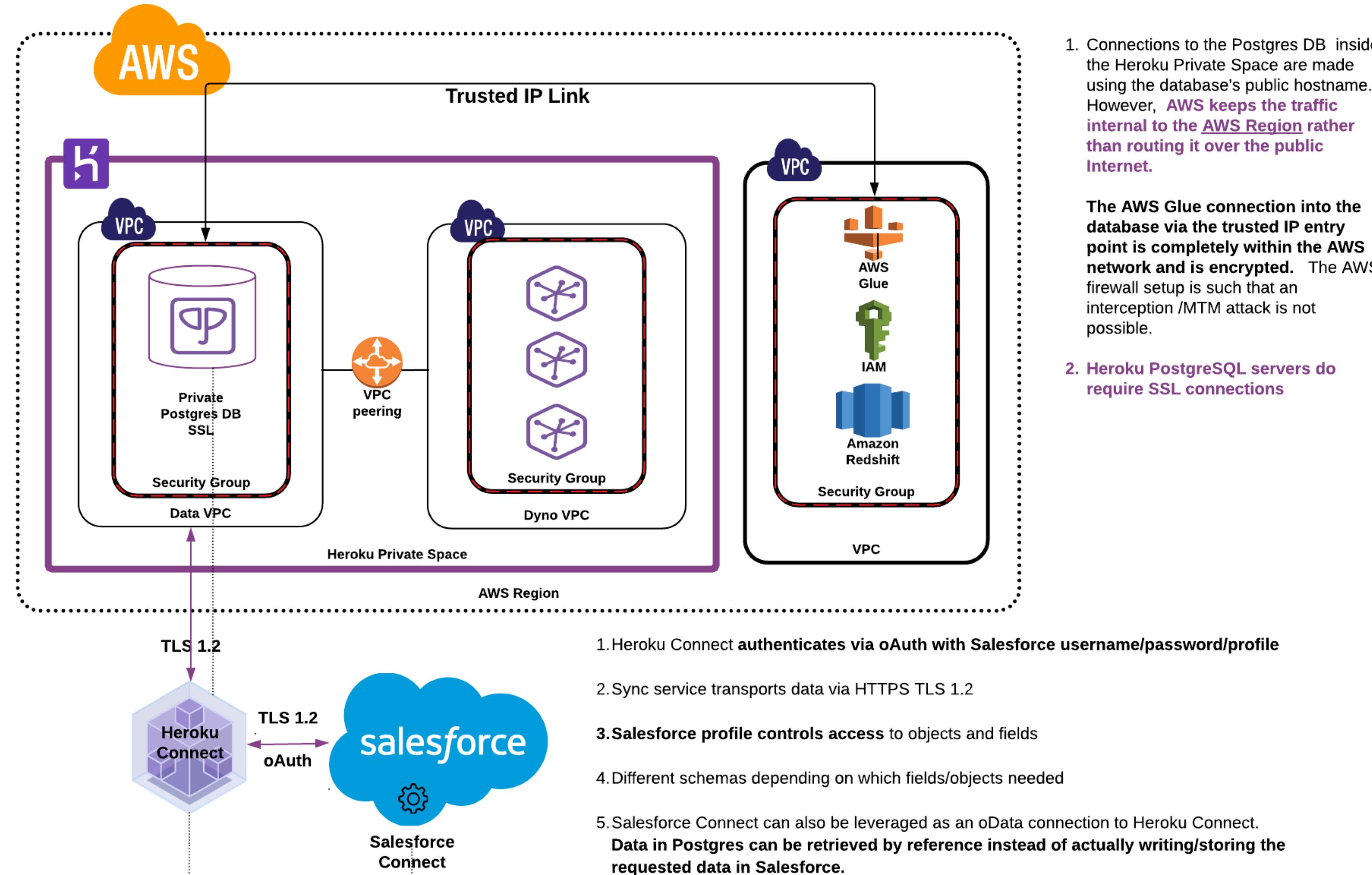
Heroku Private Spaces VPC Peering feature does not include peering with the Space's Data VPC, only the Dyno VPC.

This method will require the use of proxy servers on dynos to facilitate database traffic between Amazon Glue resources in a separate VPC and the Heroku Postgres DB in the Space's Data VPC.



# Move data from Redshift to Salesforce with Trusted IP Link

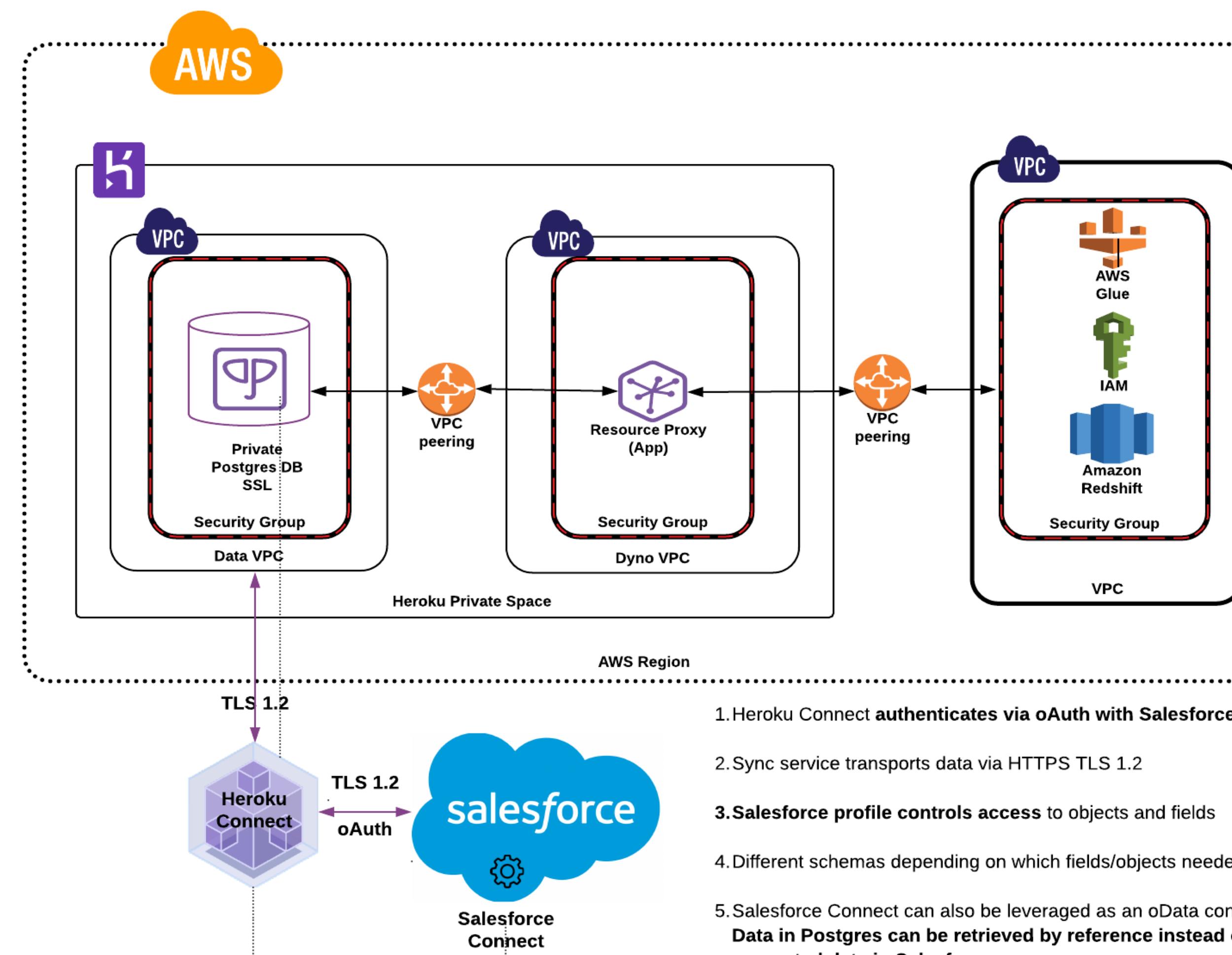
## Trusted IP Link



# Move data from Redshift to Salesforce with Peered VPCs

Establish network connections with the security and compliance benefits of a private network

## Proxy Service as Heroku Application



1. Heroku Private Spaces VPC Peering feature does not include peering with the Space's Data VPC, only the Dyno VPC.

Proxy servers on dynos can facilitate database traffic between Amazon Glue resources in a separate VPC and the Heroku Postgres DB in the Space's Data VPC.

2. This method allows for SSL client certificate validation within Heroku's network via the dyno proxy servers.

1. Heroku Connect authenticates via oAuth with Salesforce username/password/profile
2. Sync service transports data via HTTPS TLS 1.2
3. Salesforce profile controls access to objects and fields
4. Different schemas depending on which fields/objects needed
5. Salesforce Connect can also be leveraged as an oData connection to Heroku Connect.  
Data in Postgres can be retrieved by reference instead of actually writing/storing the requested data in Salesforce.

# Solution Matrix

	AWS Glue (ETL)	AWS Data Migration Services	Amazon Redshift	Heroku Connect	Salesforce Connect
OLAP to OLTP transformation	Yes Redshift (source) Heroku Postgres (target)	No	N/A	N/A	N/A
Declarative Interface	Yes	Yes	N/A	Yes	Yes
Scheduled jobs	Yes	Yes	N/A	Yes (polling)	N/A
oData endpoint available	No	No	No	Yes (producer) +DataClips Query Endpoints	Yes (consumer)
Virtualize data in Salesforce	No	No	No	No	Yes

