

# Go Reactive with Vert.x

in

## Oracle Application Container Cloud

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Intro?

Vert.x

# Application Platform

Runs on JVM

# Asynchronous APIs

Polyglot

Simple



Why?

APIs

Hello World

Verticles

```
public class HelloWorldVerticle extends AbstractVerticle { ←
    ...

    @Override
    public void start( Future<Void> fut ) { ←
        vertx.setPeriodic( 1000, l -> {
            vertx.eventBus()
                .publish( "hello-bus",
                    new JsonObject(
                        Json.encodePrettily(
                            new Message( "HelloWorld Message: " + new Date() ) ) ) );
        }

        vertx.eventBus()
            .consumer( "hello-bus",
                m -> {
                    JsonObject json = ( JsonObject ) m.body();
                    logger.info( "Receiving "
                        + json.getString( "id" )
                        + " : "
                        + json.getString( "name" ) );
                }
            )
    }
}
```

# Threading Model

## Event Loops

**IMAGEM AQUI**

# Event Loops VS. Blocking API's



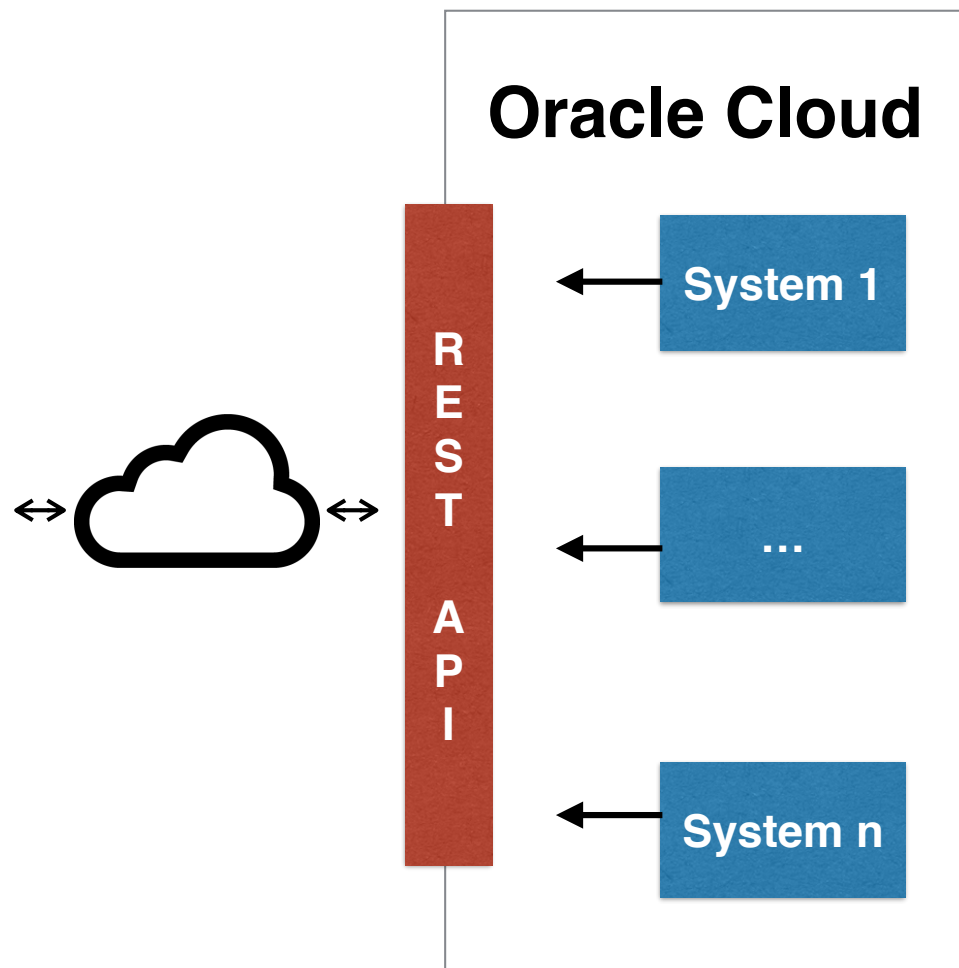
# Hybrid Threading Model

# Scaling

# Distributed Event Bus

Extended to the  
browser

Demo :)

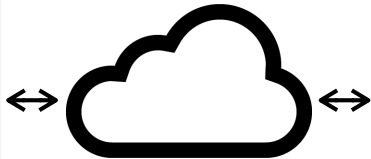


# Vert.x Cluster

Distributed Event Bus

system.process.in

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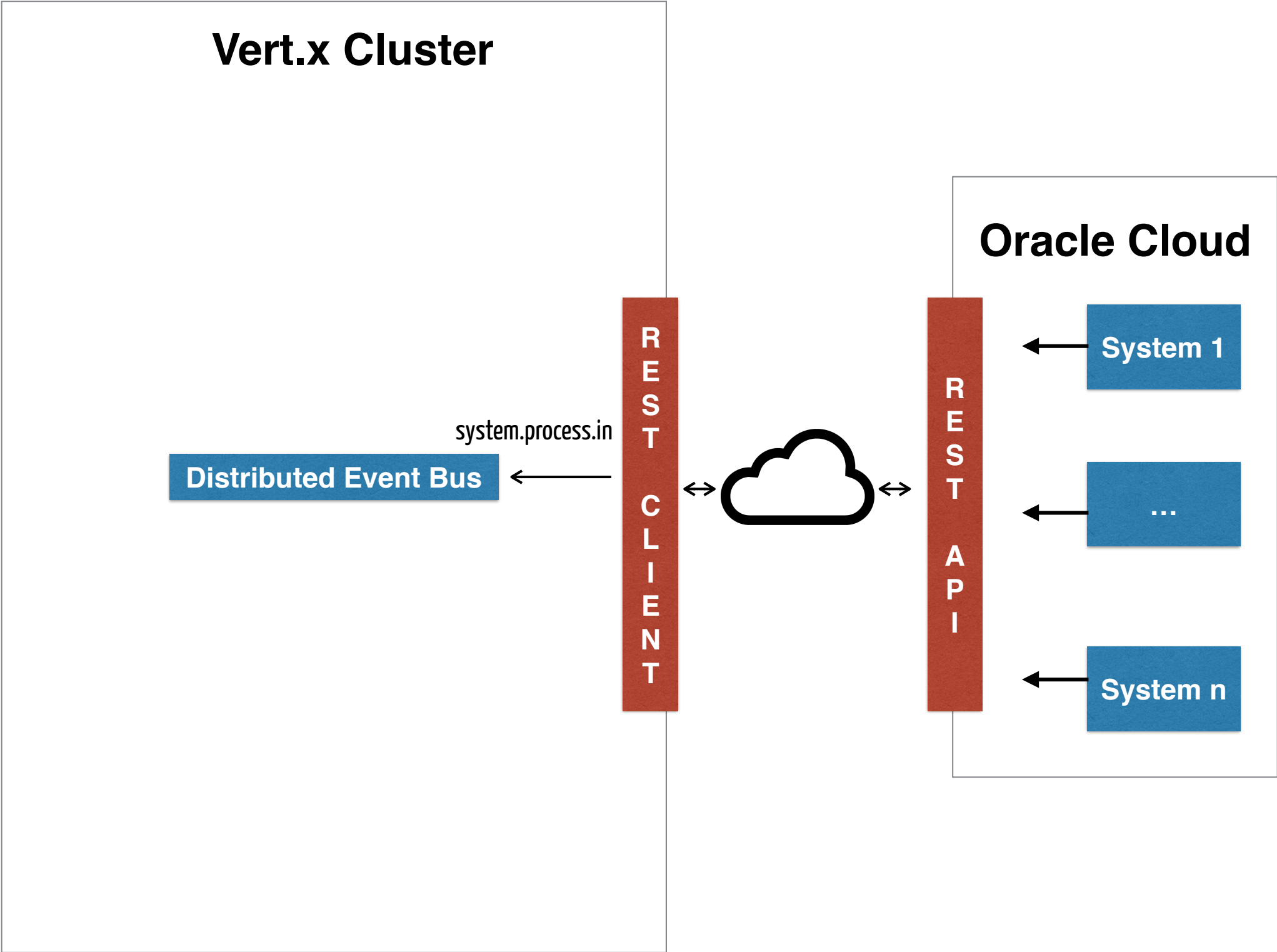
# Oracle Cloud

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← System 1

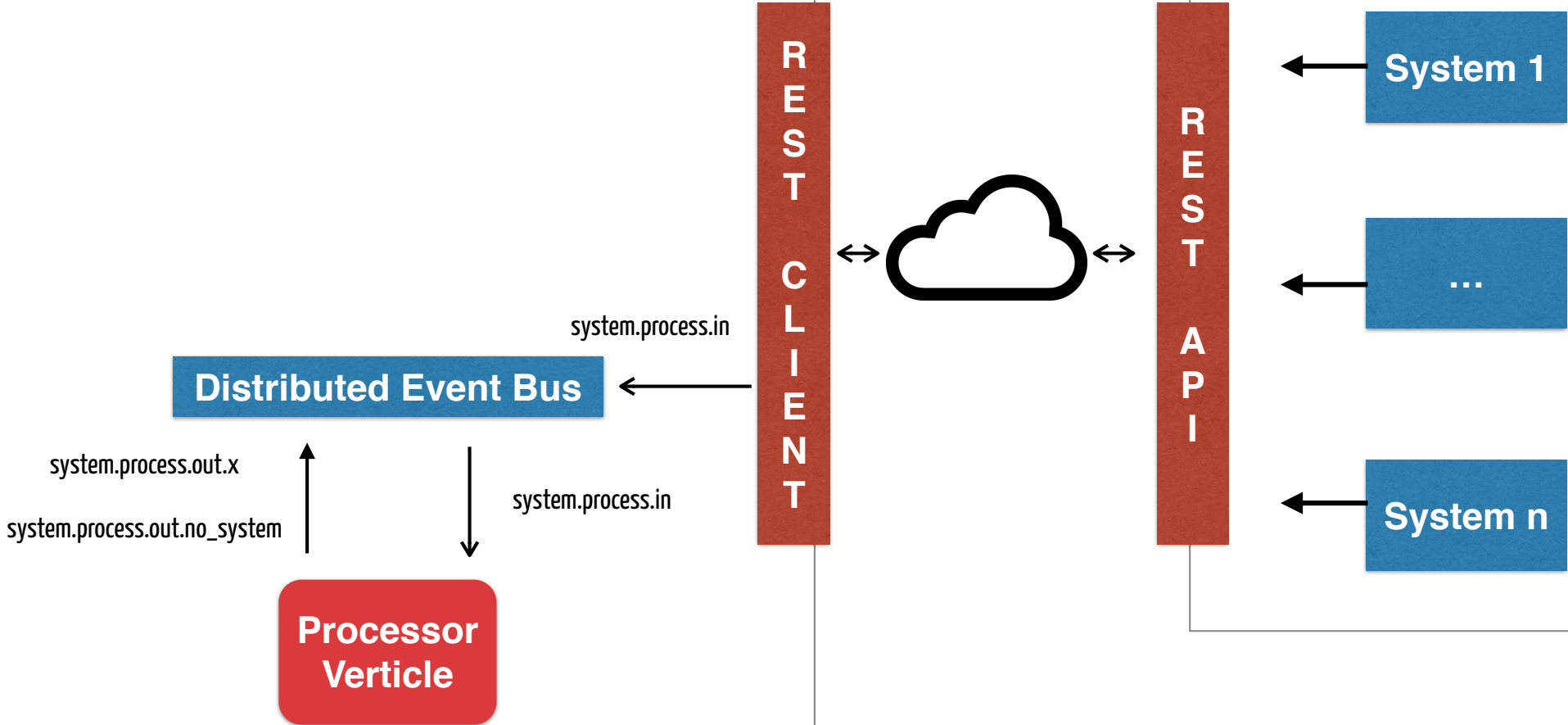
← ...

← System n



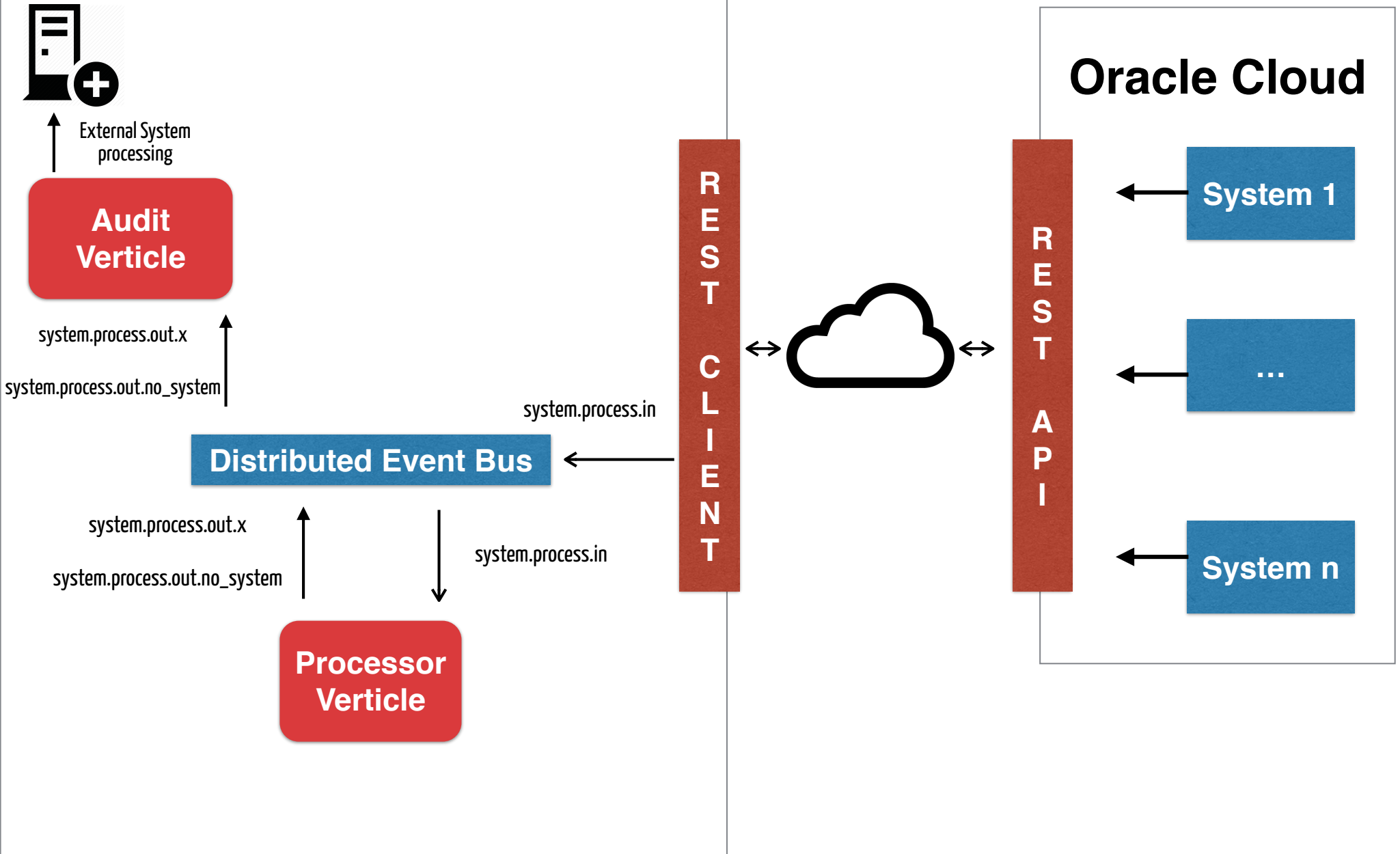
# Vert.x Cluster

# Oracle Cloud

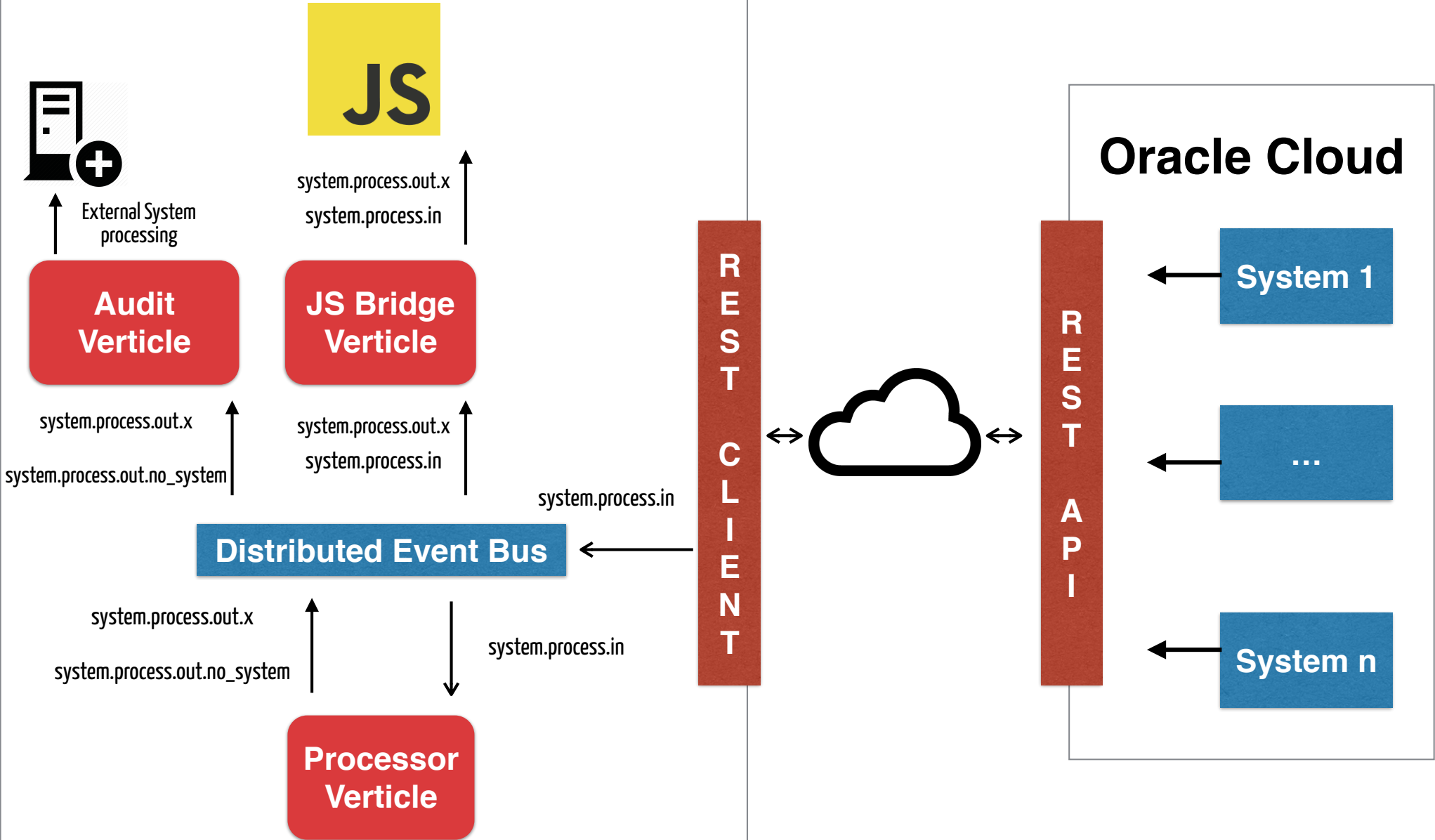




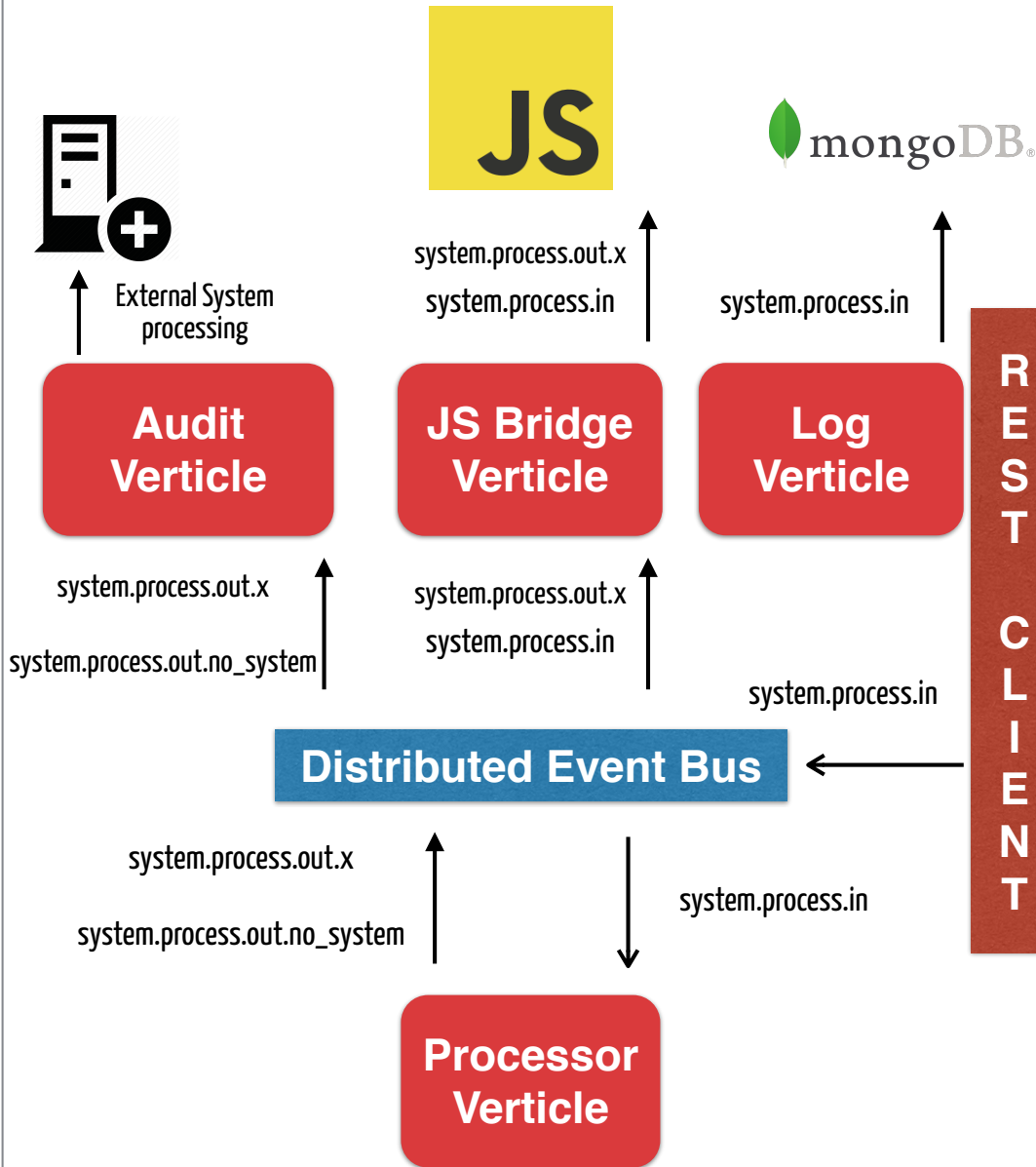
# Vert.x Cluster



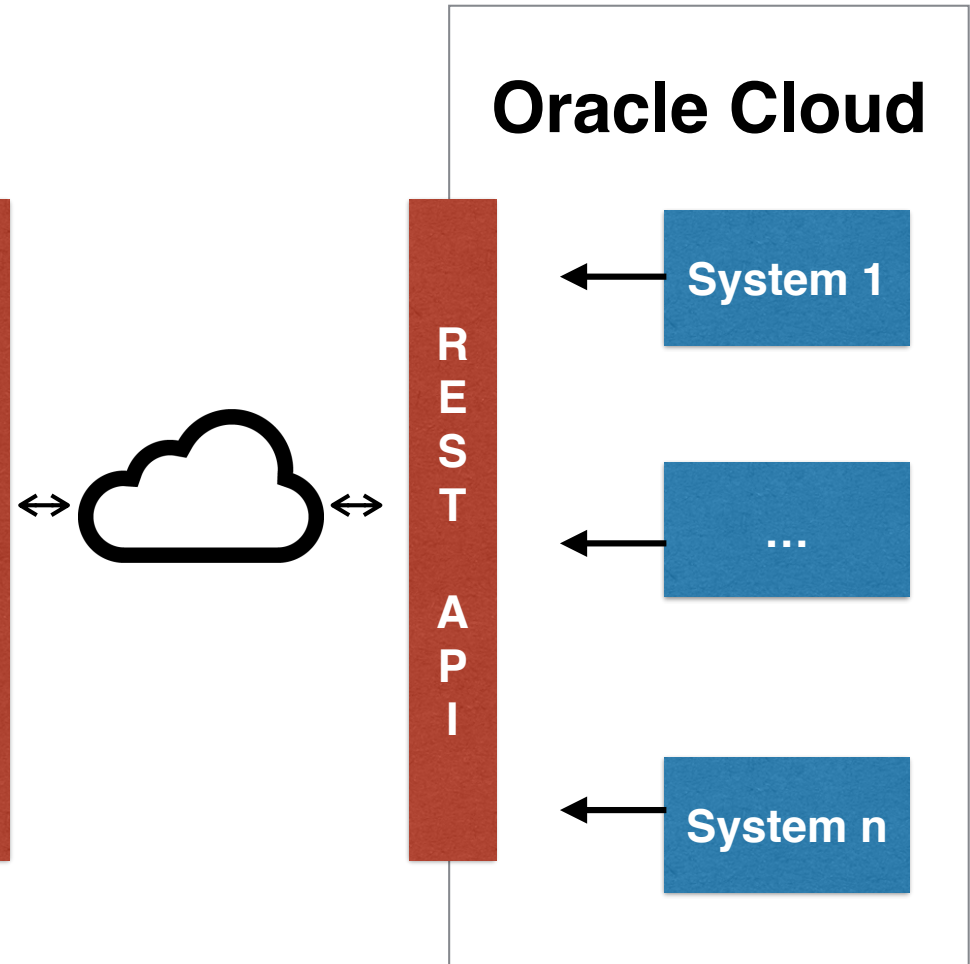
# Vert.x Cluster



# Vert.x Cluster



# Oracle Cloud



# Vert.x talks

# Obrigado

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