



Break New Ground

San Francisco
September 16–19, 2019

Getting Started with Oracle and .NET

Alex Keh and Christian Shay

Senior Principal Product Managers
Oracle
September 17, 2019

Jana Korapala

Senior Database Administration Consultant
Dell Technologies
September 17, 2019

Agenda

- Oracle .NET Development Overview
- Oracle Data Provider for .NET (ODP.NET)
- Oracle Developer Tools for VS Code
- Oracle Developer Tools for Visual Studio
- Customer: Dell Technologies

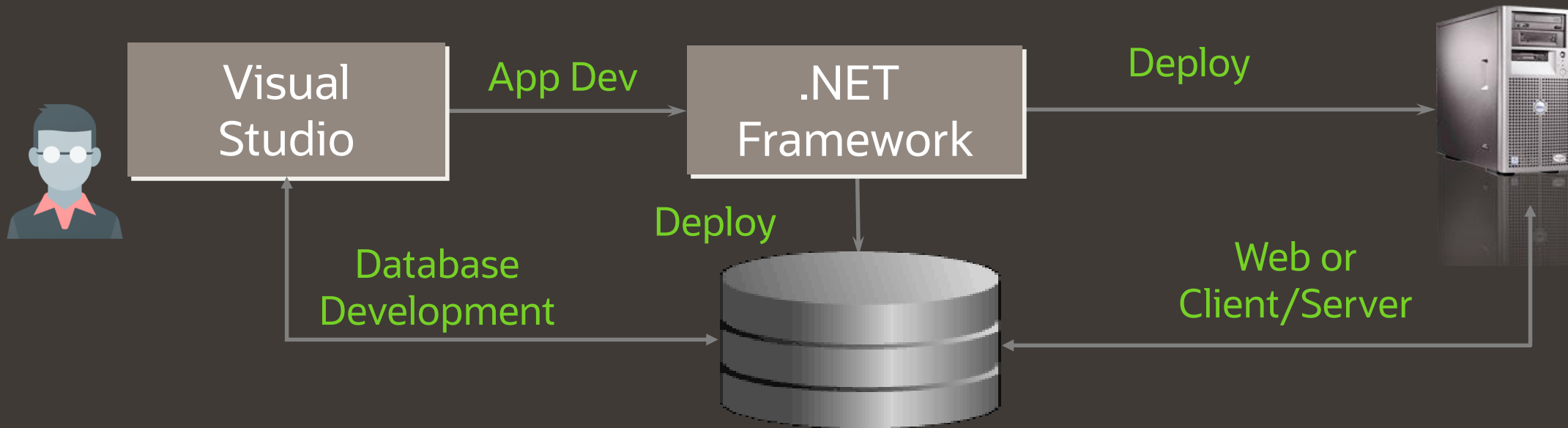
Oracle .NET Development Overview

Traditional Oracle .NET Development

**Oracle Developer Tools
for Visual Studio**

**Oracle Data
Provider for .NET**

**Oracle Providers
for ASP.NET**



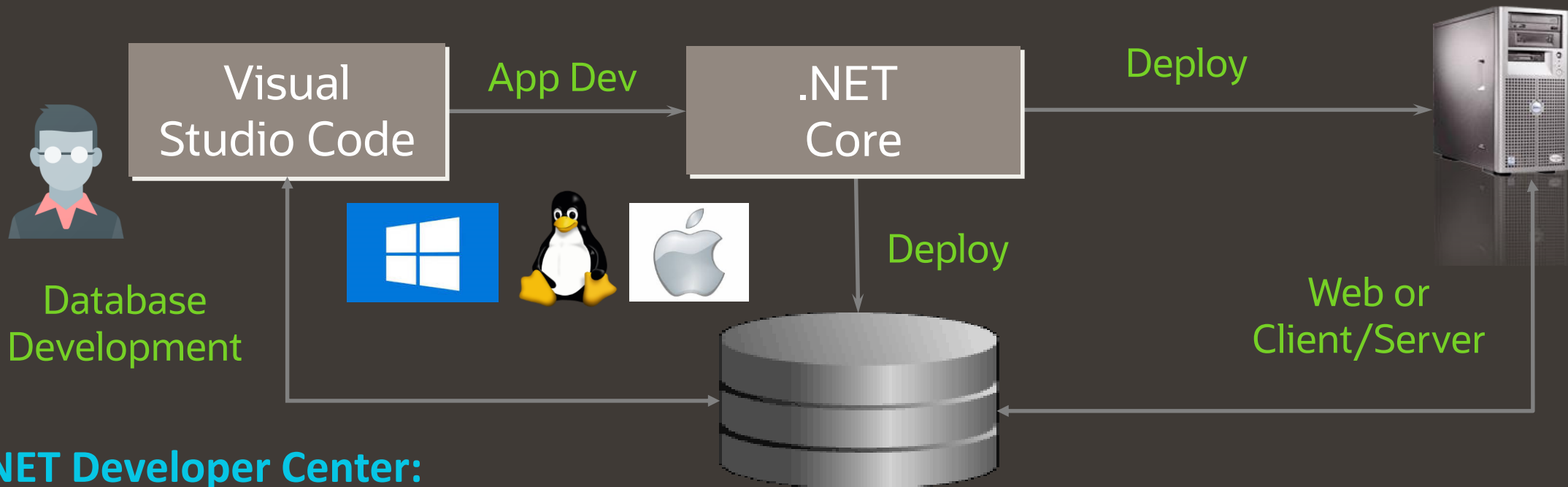
.NET Developer Center:
<https://otn.oracle.com/dotnet>

**Oracle Database
Extensions for .NET**

Oracle .NET Core Development

Oracle Developer Tools
for Visual Studio Code

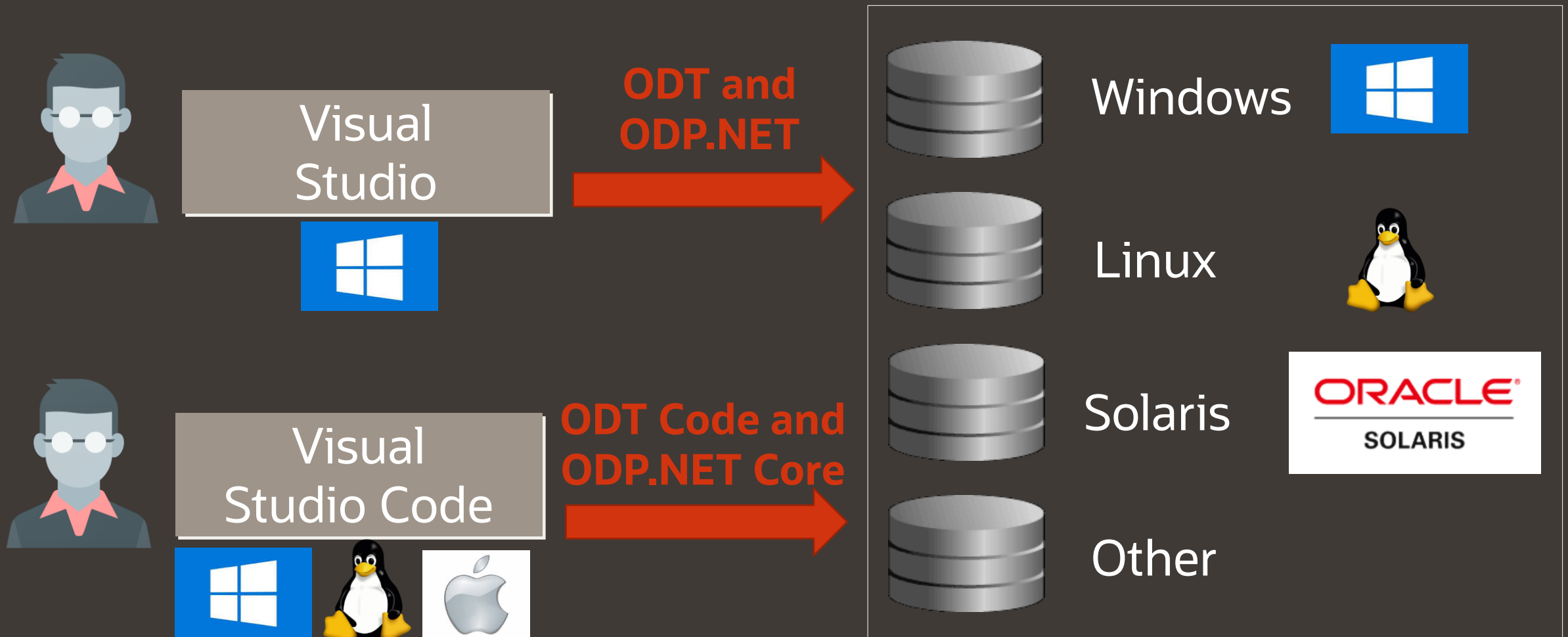
Oracle Data
Provider for .NET



.NET Developer Center:
<https://otn.oracle.com/dotnet>

Develop on Any Platform

Run Database on Any Platform





ODP.NET

ODP.NET Overview

- Implements standard ADO.NET

ADO.NET: Microsoft's standard for data access from .NET code

- Extended to provide native access to Oracle Database

Utilize advanced Oracle Database features

E.g. RAC, performance, security, data types, XML, etc.

- Install types

NuGet package (NuGet Gallery)

MSI installer (OTN)

Oracle Universal Installer (OTN)

Xcopy install (OTN)

ODP.NET Provider Types

- ODP.NET Core

 - Newest

 - .NET Core and .NET Framework

 - Multi-platform

- Managed ODP.NET

 - .NET Framework and Windows only

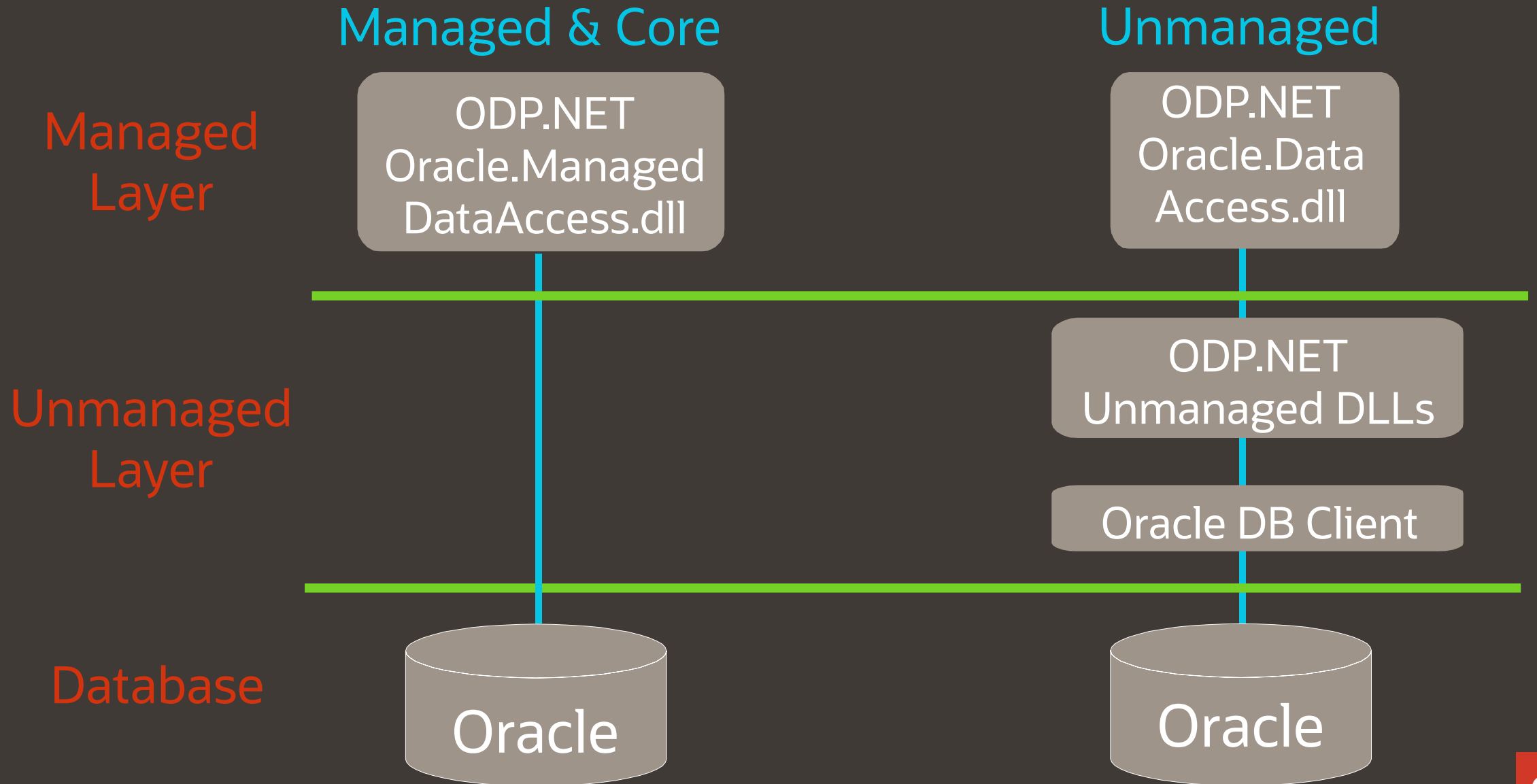
 - 100% managed

- Unmanaged ODP.NET

 - .NET Framework and Windows only

 - Most features for now, but limited future investment

ODP.NET Deployment



ORACLE®

DEMONSTRATION

Using ODP.NET

ODP.NET Unique Features

- Fast Connection Failover
- Application Continuity
- Runtime Load Balancing
- REF Cursors
- SecureFiles (LOBs)
- Self-Tuning
- And more.....

Oracle Developer Tools for VS Code

New! Oracle Developer Tools for VS Code

- Free
- Download from Visual Studio Code Marketplace
- Linux, Windows, macOS

Oracle Developer Tools for VS Code Features

- Connect to Oracle Database and Oracle Autonomous Database
- Edit and Execute SQL and PL/SQL
- View result sets and save results in .CSV and JSON
- Autocompletion and intellisense
- Syntax coloring
- Code snippets

Oracle Database Explorer

- Explore your database schema
- View table data
- Run Stored Procedures/Functions
- Edit, execute and save PL/SQL inside database
- Filter results

Requirements

- .NET Core Runtime
- One click install - prompted if you are missing it

ORACLE®

DEMONSTRATION

Oracle Developer Tools for VS Code



Try it out!

- See quickstart link in Visual Studio Marketplace:

<https://bit.ly/2kIYRad>

Oracle Developer Tools for Visual Studio

Oracle Developer Tools for Visual Studio

- Free Extension for Visual Studio 2017, 2015 (2019 coming soon)

Download from OTN and Visual Studio Marketplace

- Tight integration with Visual Studio data features:

Server Explorer
Table Adapter Configuration Wizard
Entity Designer

- Oracle specific features:

Oracle Designers (Table, View, Stored Proc, AQ, etc)
PL/SQL Editing/Debugging
Offline Database Project with Source control integration, much more

ORACLE®

D E M O N S T R A T I O N

Oracle Developer Tools for Visual Studio



Hands on Labs

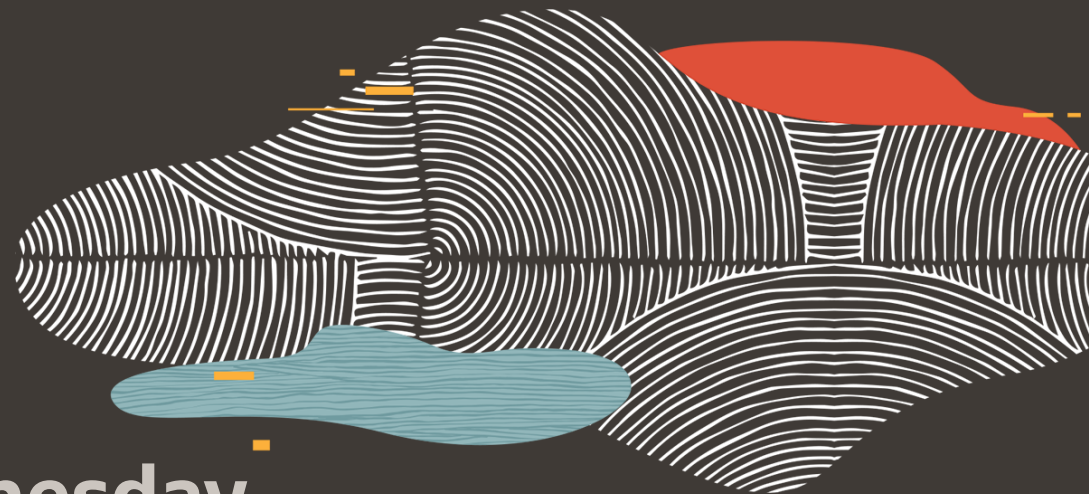
HOL4642: Building .NET Applications with Oracle Database

Tuesday

2:15-3:15 Moscone West 3019

Wednesday

9:00am-10:00 Moscone West 3019



What's Ahead

Today

12:30-1:15 Eliminate Application Downtime with
Oracle Database and .NET

Moscone South 313



What's Ahead

Wednesday

5:00-5:45 Developing and Deploying Oracle
Database Applications in Kubernetes
Moscone South 313

Thursday

9:00AM-9:45 Accelerate Oracle Database .NET
Application Performance - Moscone
South 313

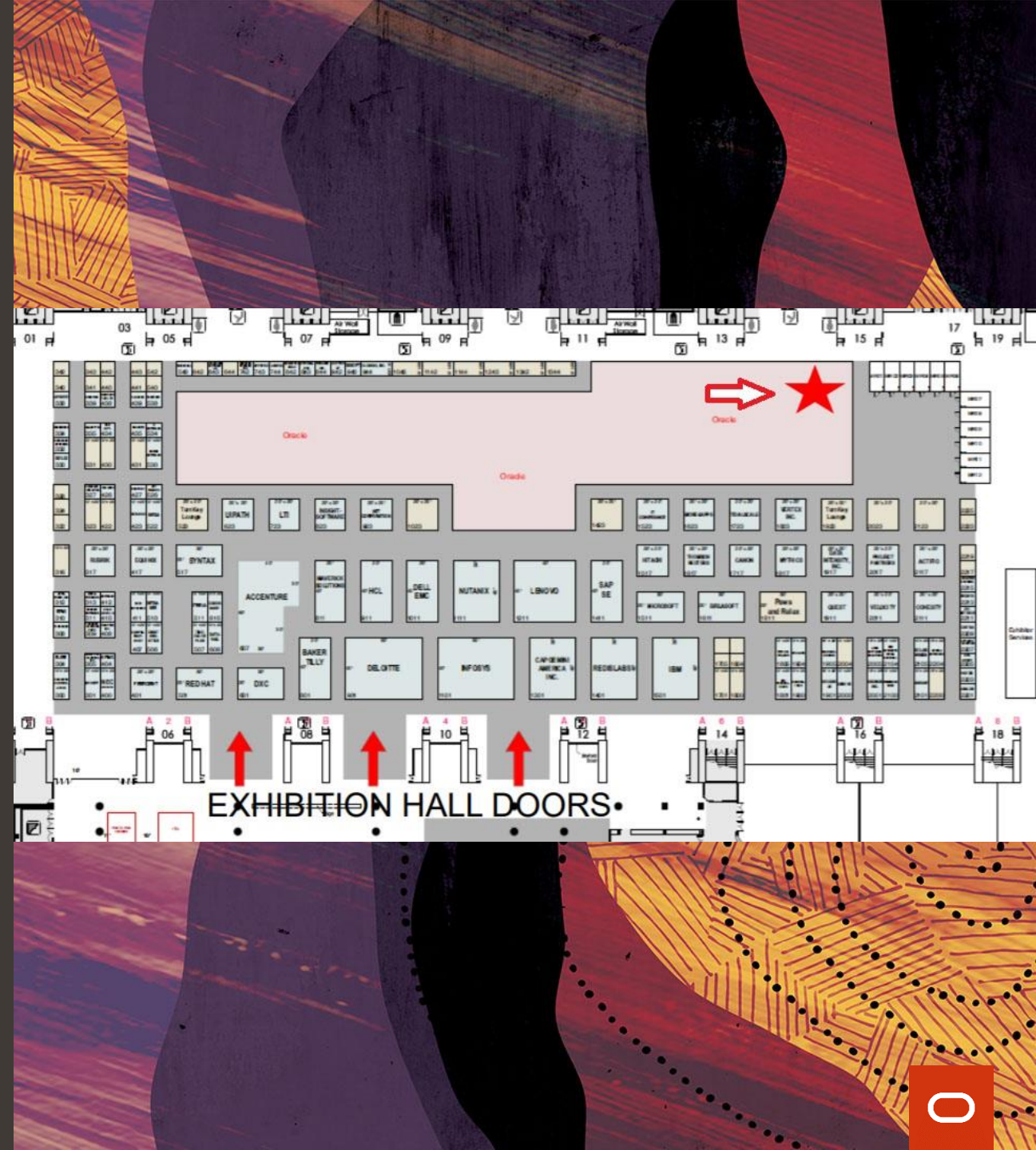
1:15 – 2:00 Exploring the Multicloud: Working with
Azure and Oracle Autonomous Database
- Moscone South 209

2:15-3:00 Running Oracle Database and
Applications in Docker Containers on
Windows - Moscone South 313

Get a personalized demo

Visit us in the Moscone South
demogrounds

DEV-013: .NET Development and
Windows Integration for Oracle
Database





Questions?

Thank You

Alex Keh and Christian Shay

Senior Principal Product Managers

Oracle

September 17, 2019



Session Survey

Help us make the content even better. Please complete the session survey in the Mobile App.

Safe Harbor

The preceding is intended to outline our general product direction. It is intended for information purposes only, and may not be incorporated into any contract. It is not a commitment to deliver any material, code, or functionality, and should not be relied upon in making purchasing decisions. The development, release, timing, and pricing of any features or functionality described for Oracle's products may change and remains at the sole discretion of Oracle Corporation.

Statements in this presentation relating to Oracle's future plans, expectations, beliefs, intentions and prospects are "forward-looking statements" and are subject to material risks and uncertainties. A detailed discussion of these factors and other risks that affect our business is contained in Oracle's Securities and Exchange Commission (SEC) filings, including our most recent reports on Form 10-K and Form 10-Q under the heading "Risk Factors." These filings are available on the SEC's website or on Oracle's website at <http://www.oracle.com/investor>. All information in this presentation is current as of September 2019 and Oracle undertakes no duty to update any statement in light of new information or future events.

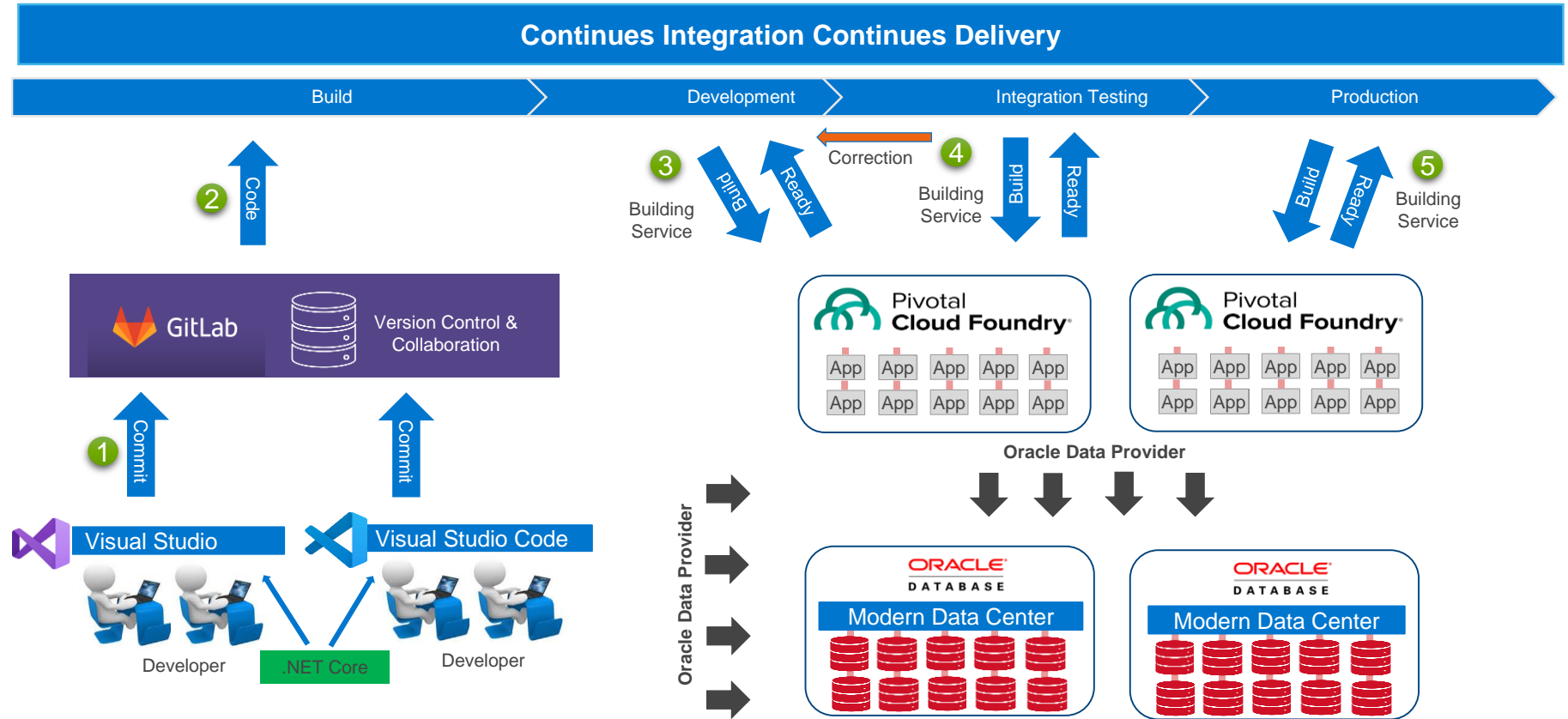
Getting Started with Oracle and .NET

[DEV6709]

Janardhana, Korapala
Sr. Database Consultant, Database Engineering

DELLTechnologies

Oracle and .NET Overview



An aerial photograph showing a vast expanse of white and grey clouds below a deep blue sky. A bright, glowing sun is positioned on the horizon, creating a horizontal band of intense yellow and orange light that stretches across the entire width of the image. The sun's rays are visible, and the clouds are illuminated from below, giving them a warm, golden hue near the horizon.

Thank You!

DELLTechnologies