amaze® | Hi.

amaze® for Apps

On Azure Cloud

Amaze® Powers Our Ability to Drive Large Scale Transformation at Pace

amaze® for Infrastructure

Secure Migration to Cloud

- **Quick non-intrusive lift tweak & shift** migration of infrastructure
- **Assisted self service** for simple workloads

Benefits Derived Due to Automation

- ✔ Enhanced server hardening & security
- ✔ License optimization & right sizing

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amaze® for Applications

Modernizing Applications on Cloud

- Automated modernization of **core mission critical applications**
- Support transformation to **containers and PaaS capabilities**
- **Fix issues and reduce technical debt**

Benefits Derived Due to Automation

- ✔ Automated architecture review
- ✔ Automated conversion of monolith to modular services
- ✔ Automated Replatforming from legacy to modern PaaS services

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amaze® for Data & AI

Datawarehouse Ecosystem Migration

- Complete Data warehouse ecosystem migration including **Data Store, Pipelines & Visualizations**
- Supports multiple on-prem systems to **Azure Cloud**

Benefits Derived Due to Automation

- ✔ Automated discovery and assessment
- ✔ Automated transformation of ingestion, data store and visualization
- ✔ License optimization

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amaze® for ERP

ERP Migration

- Complete ERP migration including **Customizations.**
- Supports **SAP, Oracle ERP from On Premise** to **Azure Migration**

Benefits Derived Due to Automation

- ✔ License optimization & right sizing
- ✔ Version Upgrade
- ✔ SaaS enablement
- ✔ Database Migration

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amaze® for Assurance
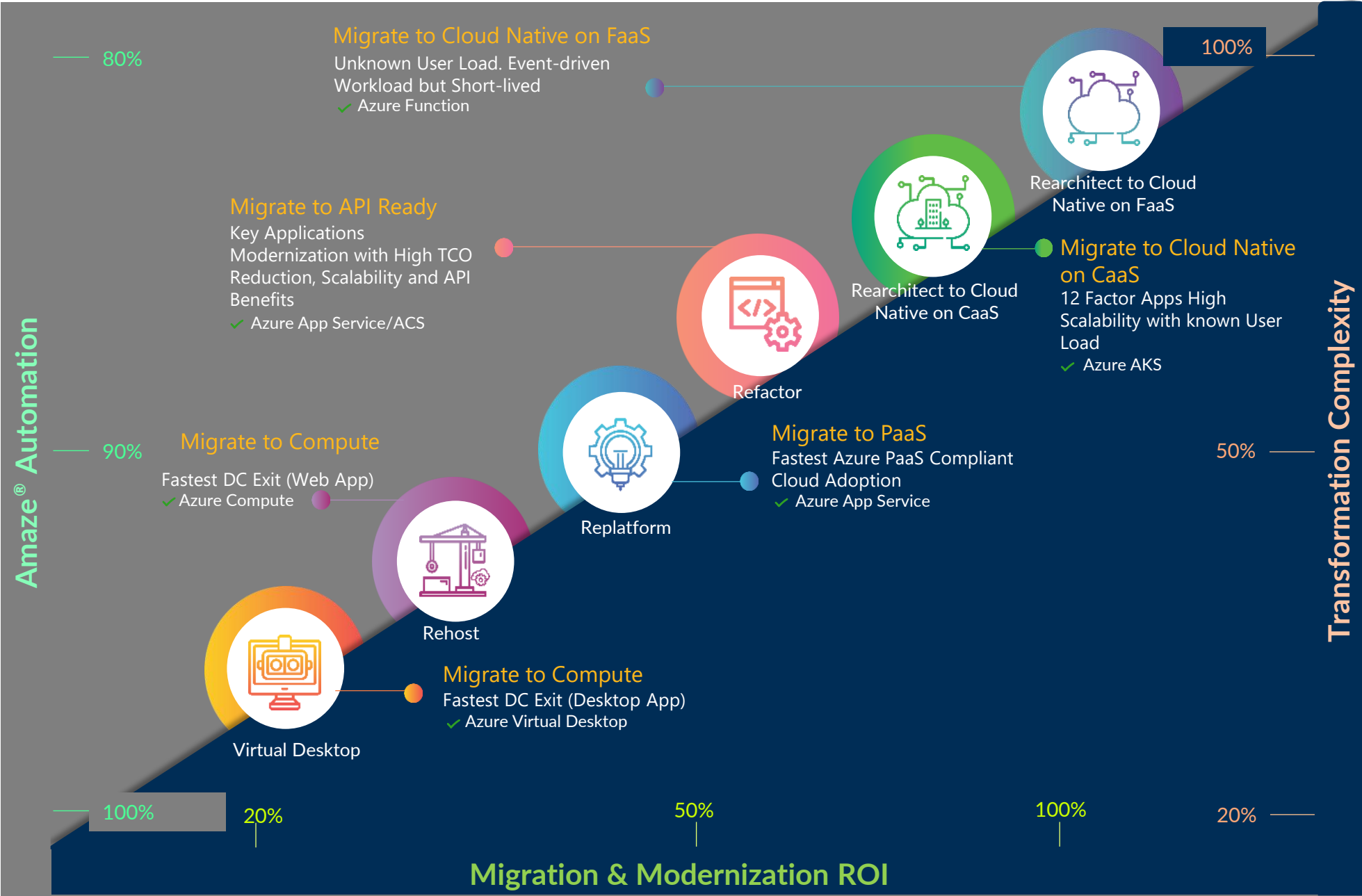
Cloud Testing & Validation

- **Platform for end-to-end assurance of migration programs**
- **Process validation** to optimize resource cost & security

Benefits Derived Due to Automation

- ✔ Coverage through strategy, planning, execution and reporting
- ✔ Configurable rules for compliance and security
- ✔ Single Test and validate all cloud journeys from rehost to cloud native

Amaze® Capability

Migrate to Cloud Native on FaaS
Unknown User Load. Event-driven Workload but Short-lived
✓ Azure Function

Migrate to API Ready
Key Applications Modernization with High TCO Reduction, Scalability and API Benefits
✓ Azure App Service/ACS

Migrate to Compute
Fastest DC Exit (Web App)
✓ Azure Compute

Migrate to Compute
Fastest DC Exit (Desktop App)
✓ Azure Virtual Desktop

Rearchitect to Cloud Native on FaaS

Migrate to Cloud Native on CaaS
12 Factor Apps High Scalability with known User Load
✓ Azure AKS

Rearchitect to Cloud Native on CaaS

Refactor

Migrate to PaaS
Fastest Azure PaaS Compliant Cloud Adoption
✓ Azure App Service

Replatform

Rehost

Virtual Desktop

80%
90%
100%
100%
50%
100%
20%
50%
100%
20%

Amaze® Automation

Transformation Complexity

Migration & Modernization ROI

Art of Possible

No Source Code Avalable (COTS)
✓ Migrate to Compute (Desktop App or Web App) as Rehost
✓ Migrate to PaaS (Web App) As Replatform

Source Code Avalable
✓ Migrate to API (Refactor)
✓ Migrate to Cloud Native on CaaS (Rearchitect)
✓ Migrate to Cloud Native on FaaS (Rearchitect)

Hexaware Amaze for Apps Benefits®

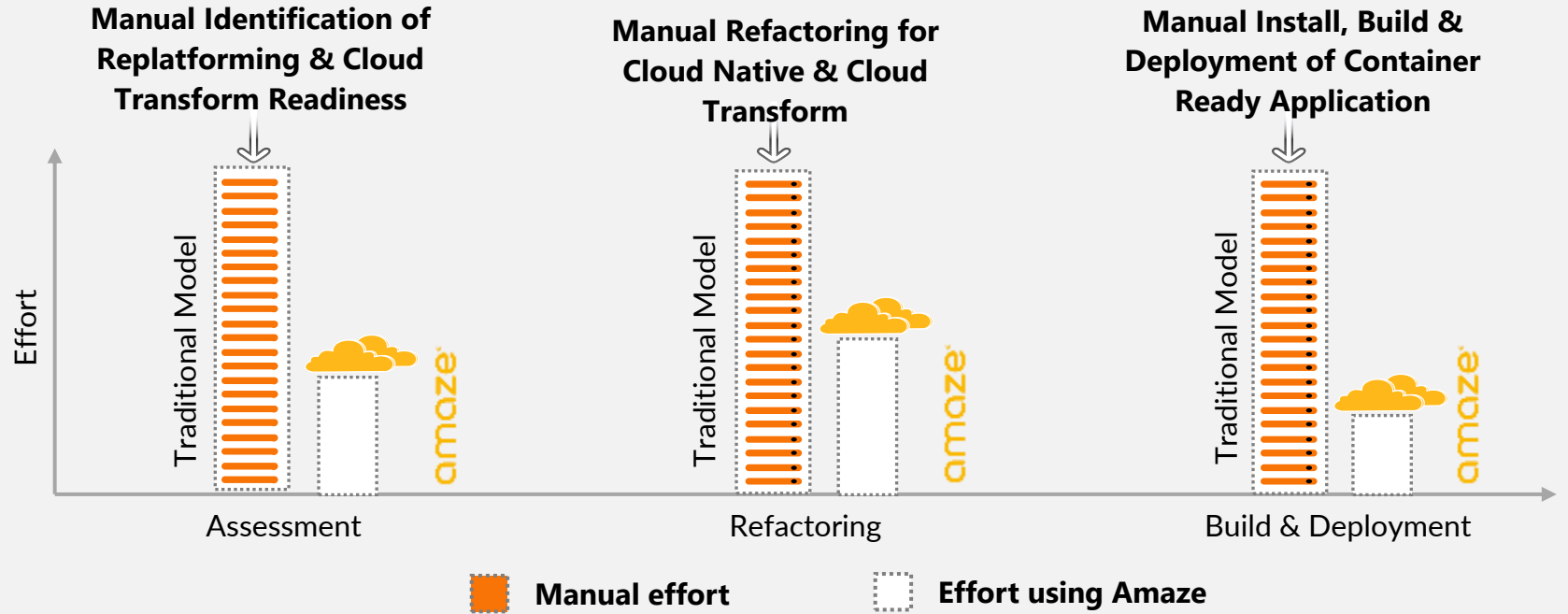**hi. amaze®**

50% Cost Savings

50% TCO Savings

50% Faster Than Manual

Predictable Performance & Quality

High Security and Compliance

amaze® for Applications

Replatform Readiness Analyzer

Refactoring Engine

Application Builder

Manual Identification of Replatforming & Cloud Transform Readiness

Manual Refactoring for Cloud Native & Cloud Transform

Manual Install, Build & Deployment of Container Ready Application

Effort

Traditional Model — Assessment

Traditional Model — Refactoring

Traditional Model — Build & Deployment

■ Manual effort   ⬚ Effort using Amaze

50% to **60%**
TCO & Implementation Cost Savings

40% to **50%**
Reduction in Cloud Migration Time

Enhanced Productivity & Higher Quality

Hexaware Rated #1 in the HFS Market Analysis: Disruptive Hyperscale Cloud Service Providers Report

Hexaware was **the only service provider to receive an "A" grade across all three categories** in the HFS Report *Market Analysis: Disruptive Hyperscale Cloud Service Providers.*

Capability	Grade
Ability to Execute	A
Innovation	A
Voice of the Customer	A

Source: HFS *Market Analysis: Disruptive Hyperscale Cloud Service Providers* Report. Published: March 2021. Authors: Joel Martin, VP Cloud Strategy, and Martin Gabriel, Associate Director, Research.

"Hexaware is bringing a compelling mix of methodologies and solutions to accelerate cloud migration efforts...including working with the hyperscalers to develop its own intellectual property. The firm's **Amaze®** portfolio offers clients access to a large toolbox of accelerators to support engagements."

Joel Martin
VP Cloud Strategy

Amaze Catalog

Amaze® Cloud Transformation Catalog

On-premises Technology	App Modernization/ Cloud Transformation to Cloud Native App with CI/CD on Private/Azure Cloud			
	VM/ Kubernetes/ PCF/ OpenShift	Azure App Service	Azure App Service /ACS	Azure AKS/Azure Function
.NET Framework — ASP.NET, Razor, SPA, .NET Legacy, WCF Web Service, Messaging, Batch, ADO, Entity Framework, Telerik on IIS	Decoupled AS-IS ASP.NET, Razor, SPA Front End Integrated with Macro Business Services with Rest/SOAP, Messaging, Batch Endpoint with ADO.NET, Entity Framework on .NET Core 3.15/5.0 with CI/CD on Kestral/IIS			
Java — JSP, Servlets, JSF, Struts, SPA, EJB, Web Services, Messaging, ORM, Batch on WebLogic/WebSphere	Decoupled AS-IS JSP, Servlets, JSF, Struts, SPA Front End Integrated with Macro Business Services with Rest/SOAP, Messaging, Batch Endpoint with ORM Framework Spring Boot on Tomcat/Spring Batch on Java 1.8+ with CI/CD			
TIBCO BusinessWorks	Macro Business Services with Rest/SOAP, Messaging, Batch End Point with ORM Framework Spring Boot Integration on Java 1.8+ with CI/CD			
Microsoft Message Queuing — TIBCO, IBM MQ, Progress SonicMQ	TIBCO MQ/ IBM MQ/ Sonic MQ/ Active MQ	Azure Web Pub/Sub	Azure Service Bus	Azure Service Bus
Schedulers — AUTOSYS, bmc Control-M	Autosys/ Control-M/ Quartz	Azure Web Jobs	Azure Batch	Azure Batch
Database — ORACLE, Microsoft SQL Server, IBM DB2, SAP ASE	Oracle/ DB2/ Sybase/ SQL Server/ Postgres	Azure Postgres	Azure Postgres	Azure Postgres

Cloud Transform Assessment

Application Cloud Transform Readiness Assessment on Azure Cloud

CarLeasePortal-master Assessment Report Source: **On Premise** Target: **Azure**

Application Snapshot | Containerization Readiness | RePlatform Readiness | DevOps Readiness | Macro API Candidates | Micro API Candidates

Containerization Readiness

Containerization Readiness by %

| 74.53% | 25.47% |
| Container Ready | Refactoring Required |

AppServer RePlatform Readiness

Replatform Readiness by %

| 86.01% | 13.99% |
| Kestrel Ready | Refactoring Required |

MsgBroker Replatform Readiness

Replatform Readiness by %

| 0.00% | 0.00% |
| Azure Service Bus Ready | Refactoring Required |

Batch Replatform Readiness

Replatform Readiness by %

| 0.00% | 100.00% |
| Azure App Service Ready | Refactoring Required |

Application Technology Spread (# Files)

- Style Sheet 4.74%
- Solution Configuration 0.20%
- DbContext 0.20%
- Entity 2.77%
- XML Configuration 2.17%
- MVC Controller 2.96%
- Assembly Configuration 1.19%
- Razor Html 11.26%
- Model 6.92%
- REST Service 1.58%
- Java Script 37.75%
- Node.js 2.37%
- .Net Framework Class Library Project 0.99%
- Poco 23.32%
- ASP.NET Global Start Up 0.20%

CanvasJS.com

Application Technology Spread (# LoC)

- Style Sheet 8.93%
- Solution Configuration 0.06%
- Entity 2.24%
- XML Configuration 8.48%
- Assembly Configuration 0.06%
- Razor Html 2.53%
- Schema Definition 5.95%
- REST Service 0.52%
- Poco 2.63%
- .Net Framework Web Application Project 0.44%
- Java Script 65.55%

Trial Version

CanvasJS.com

.NET Application
Cloud Transformation

.NET Cloud Replatform powered by Amaze®
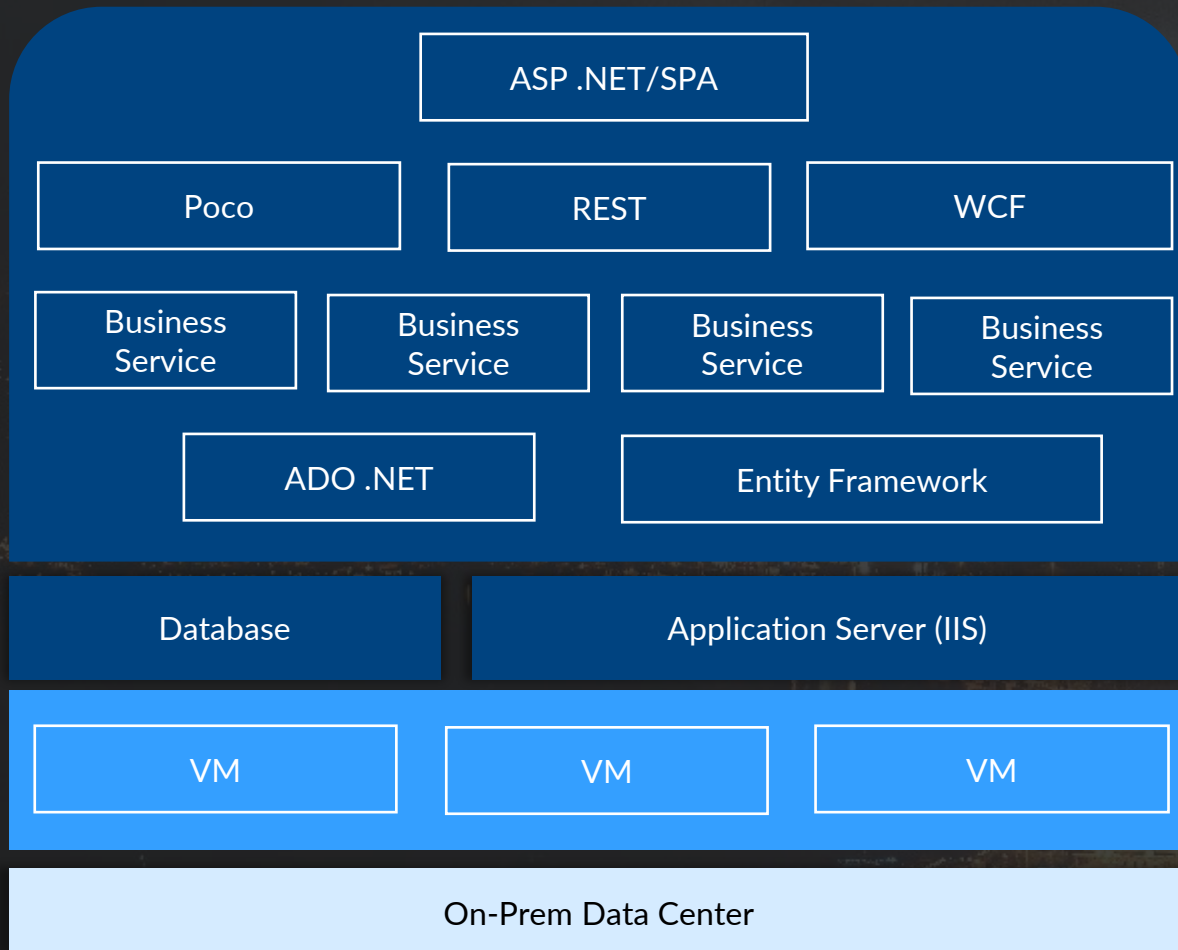
On-Prem View

Post Replatform View

ASP .NET/SPA

Poco	REST	WCF

Business Service	Business Service	Business Service	Business Service

ADO .NET	Entity Framework

Database	Application Server (IIS)

VM	VM	VM

On-Prem Data Center

ASP .NET/ SPA

Poco	REST	REST

Business Service	Business Service	Business Service	Business Service

ADO .NET	Entity Framework

Cloud PaaS Platform Ready (Azure App Service)

Azure Postgres	Azure Blob	Azure File	Azure Web Jobs	Azure Web Pub/Sub

Azure Cloud

- Application availability dependent on hardware redundancy
- Application scalability limited to hardware horizontal/vertical scaling
- Monolithic Application

- Application Platform Maintenance on Cloud
- Application Scalability on Cloud Infra
- Monolithic Application

.NET Cloud Refactor powered by Amaze®

On-Prem View

ASP .NET/SPA

Poco	REST	WCF

Business Service	Business Service	Business Service	Business Service

ADO .NET	Entity Framework

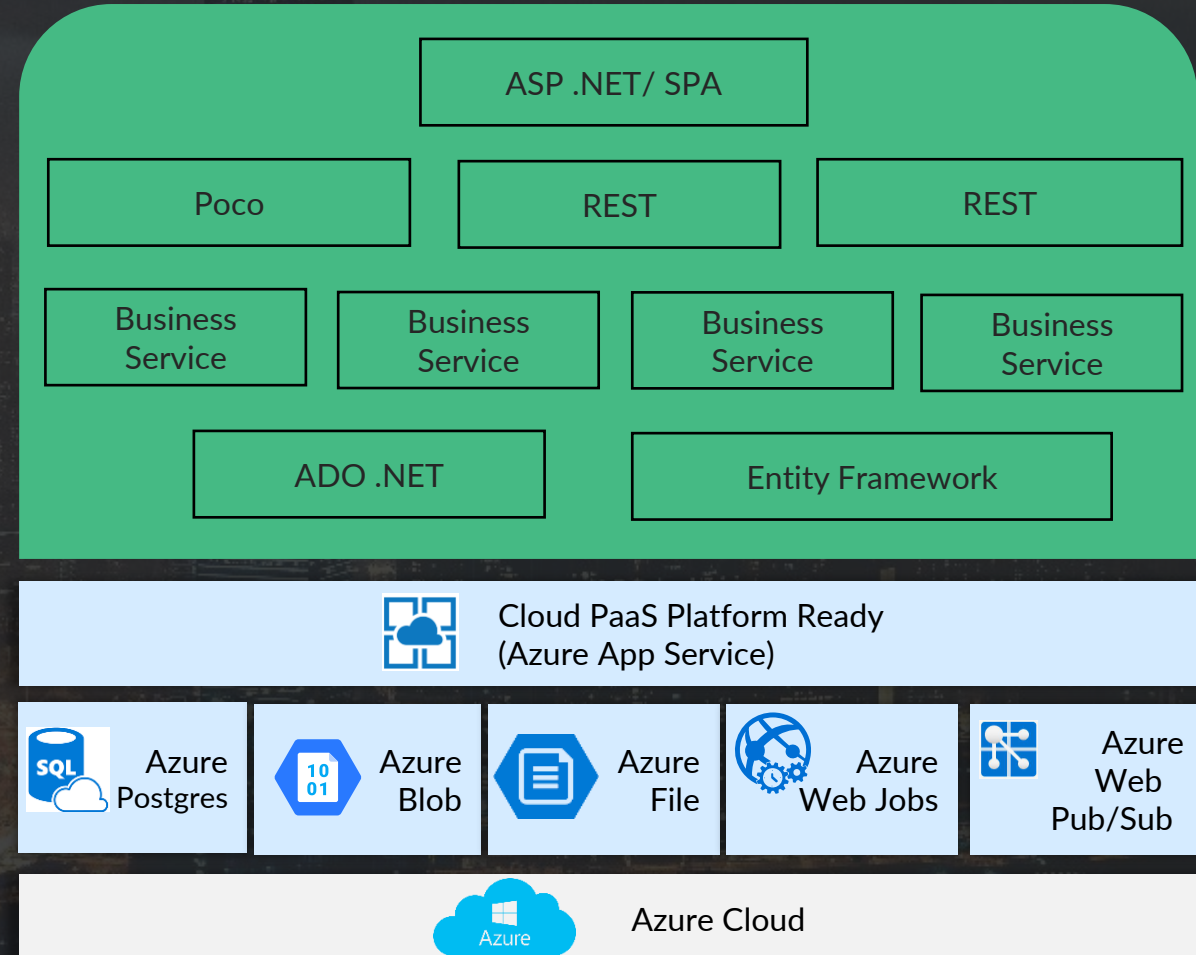| Database	Application Server (IIS)

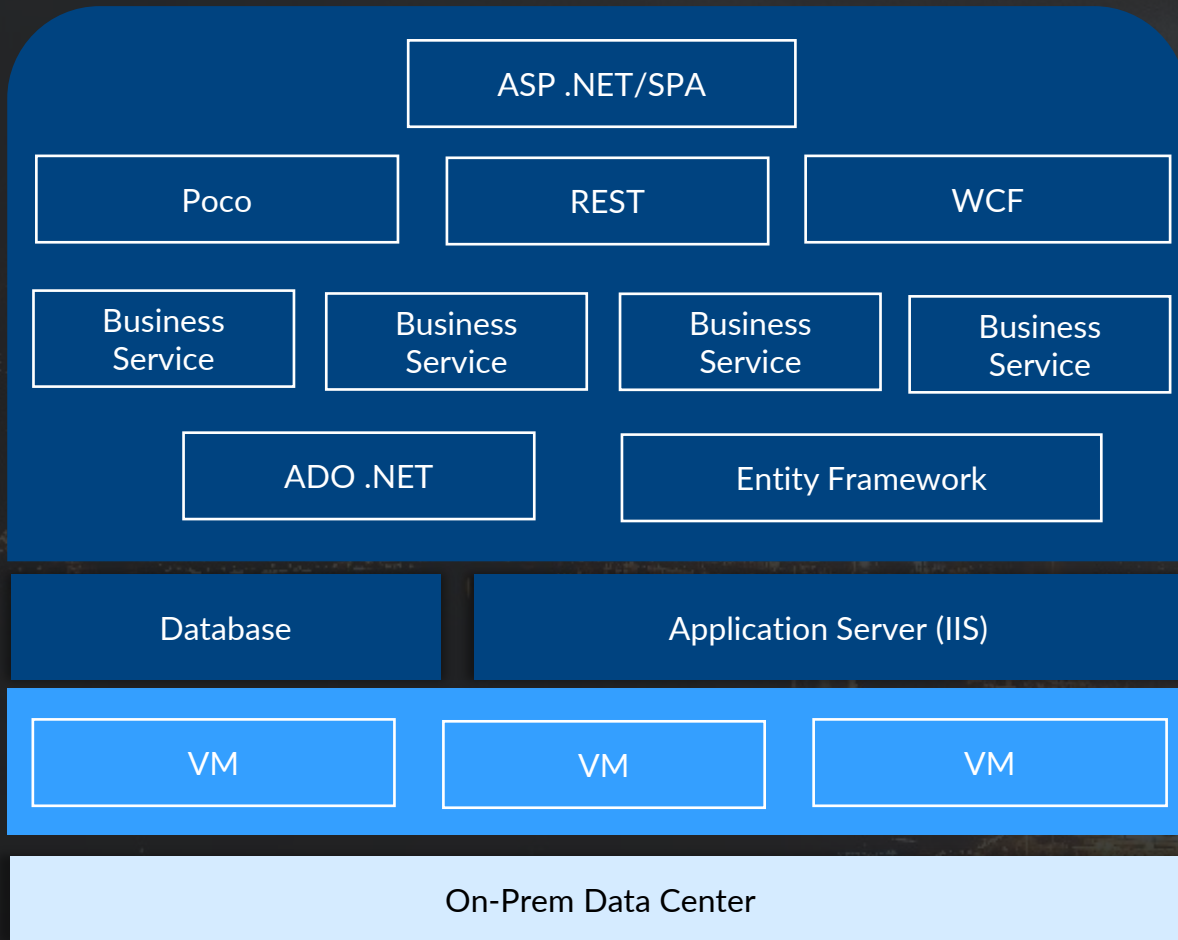| VM	VM	VM

On-Prem Data Center

- Application availability dependent on hardware redundancy
- Application scalability limited to hardware horizontal/vertical scaling
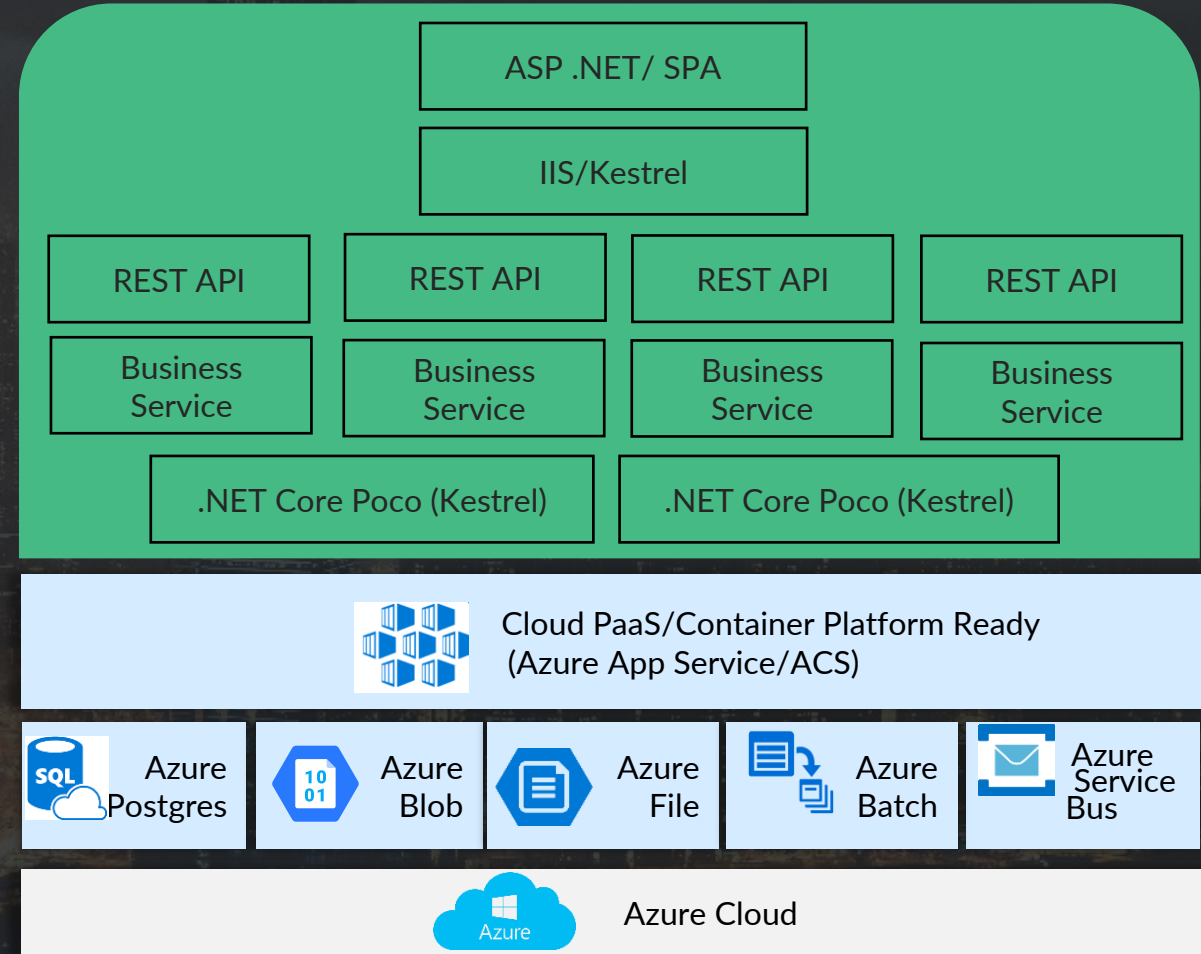- Monolithic Application

Post Refactor View

ASP .NET/ SPA

IIS/Kestrel

REST API	REST API	REST API	REST API

Business Service	Business Service	Business Service	Business Service

.NET Core Poco (Kestrel)	.NET Core Poco (Kestrel)

Cloud PaaS/Container Platform Ready (Azure App Service/ACS)

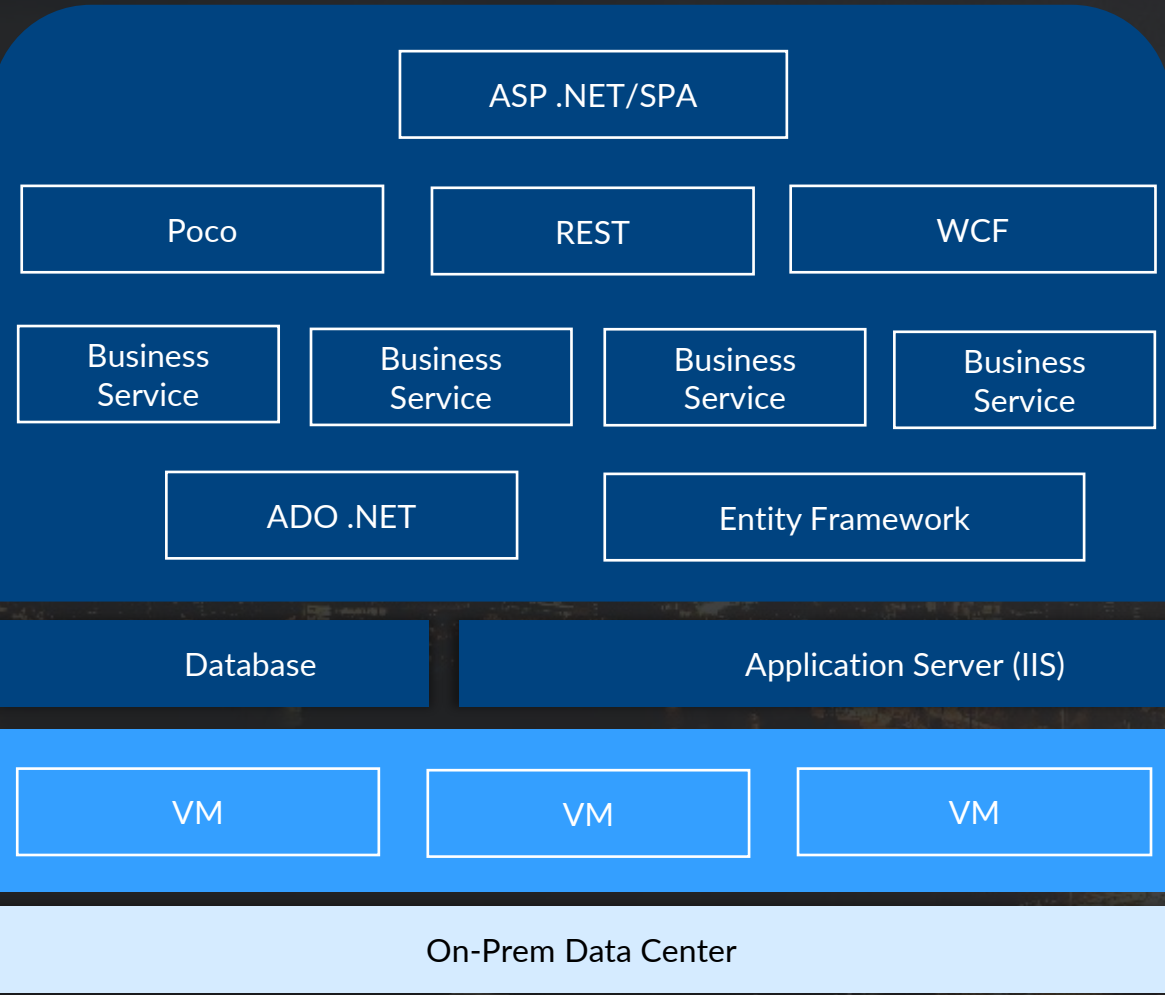Azure Postgres | Azure Blob | Azure File | Azure Batch | Azure Service Bus

Azure Cloud

- Application availability dependent on Container platform
- Application scalability increasing by API instance
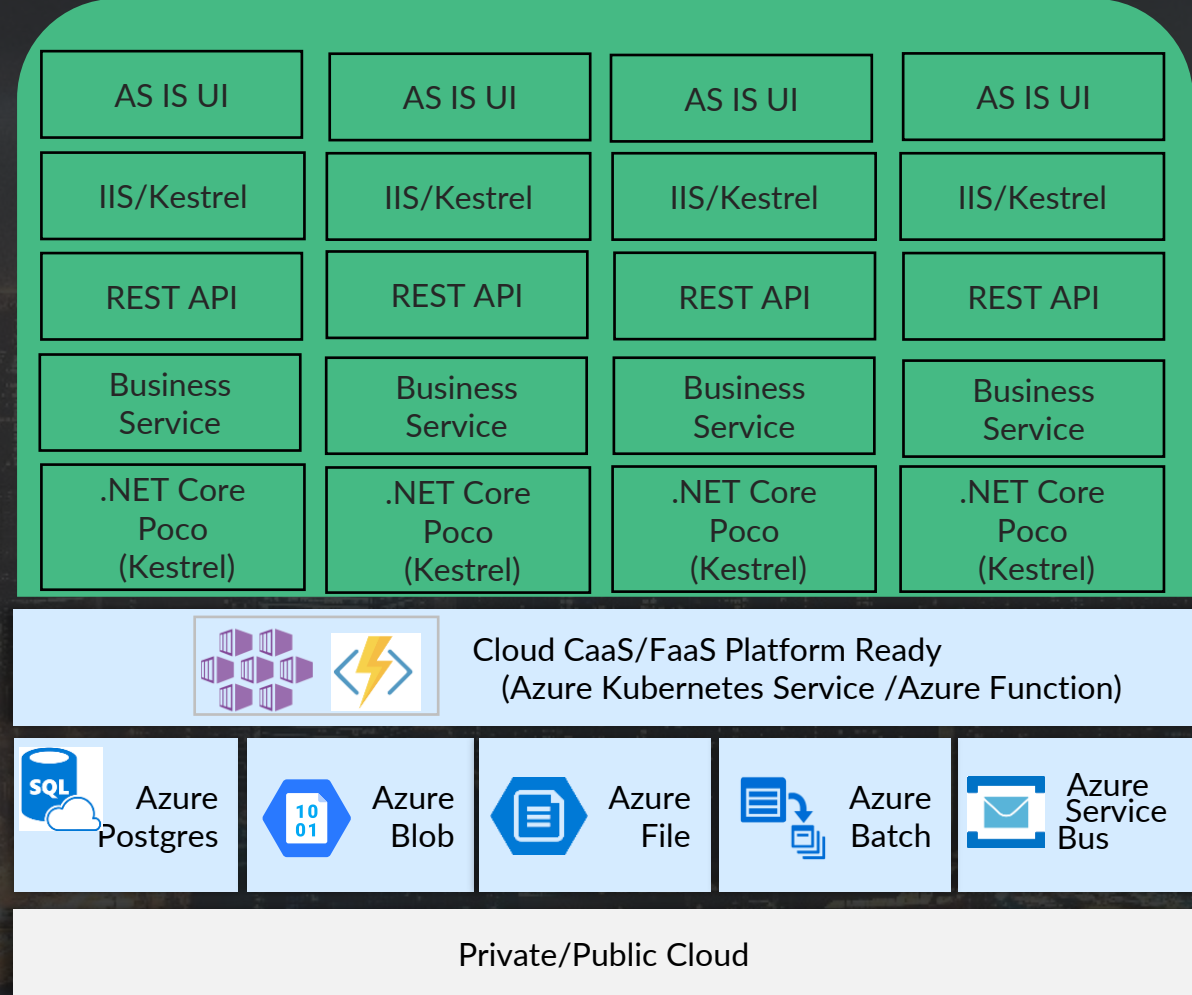- Cloud Ready Architecture with Modularized API

.NET Cloud Rearchitect powered by Amaze®

On-Prem View

ASP .NET/SPA		
Poco	REST	WCF

Business Service	Business Service	Business Service	Business Service

ADO .NET	Entity Framework

Database	Application Server (IIS)

VM	VM	VM

On-Prem Data Center

- Application availability dependent on hardware redundancy
- Application scalability limited to hardware horizontal/vertical scaling
- Monolithic Application

Post Rearchitect View

AS IS UI	AS IS UI	AS IS UI	AS IS UI
IIS/Kestrel	IIS/Kestrel	IIS/Kestrel	IIS/Kestrel
REST API	REST API	REST API	REST API
Business Service	Business Service	Business Service	Business Service
.NET Core Poco (Kestrel)	.NET Core Poco (Kestrel)	.NET Core Poco (Kestrel)	.NET Core Poco (Kestrel)

Cloud CaaS/FaaS Platform Ready (Azure Kubernetes Service /Azure Function)

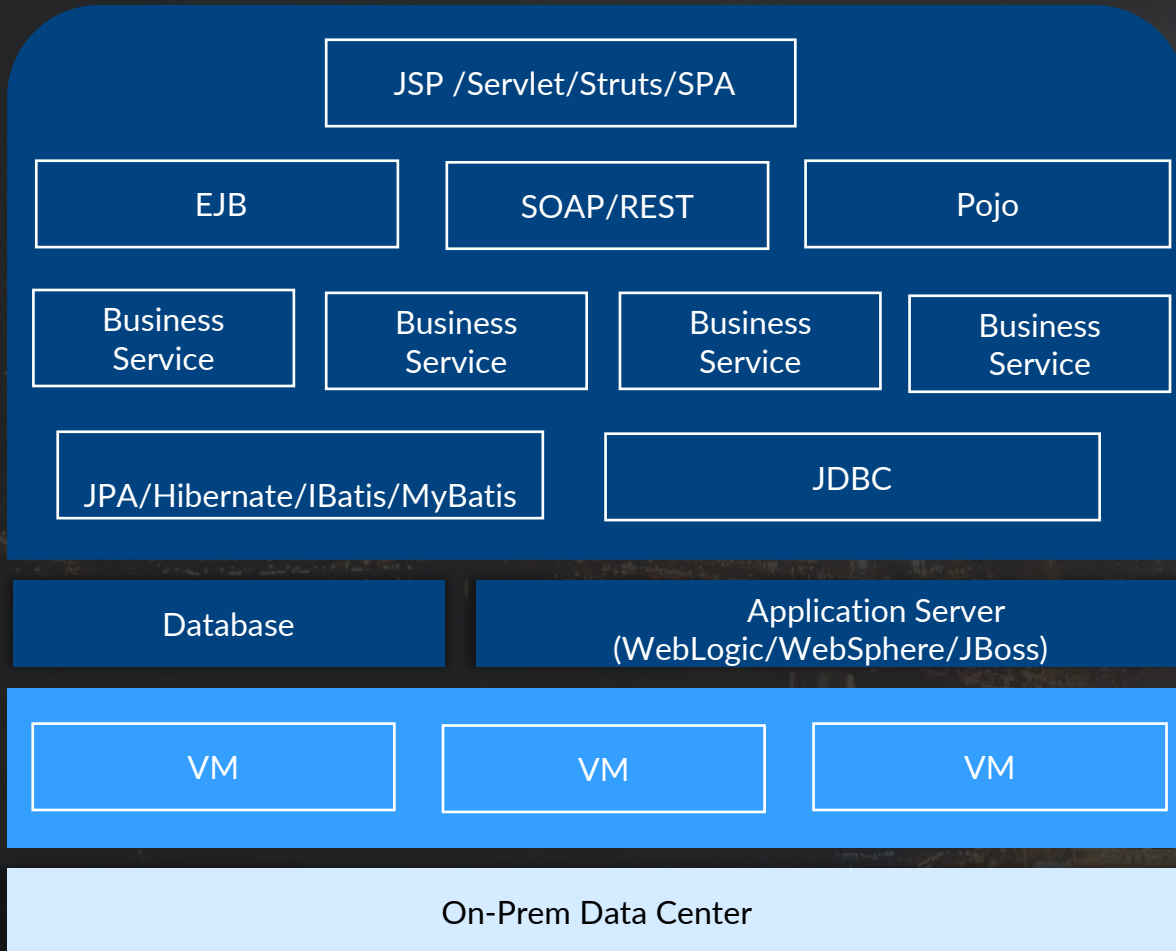| Azure Postgres	Azure Blob	Azure File	Azure Batch	Azure Service Bus

Private/Public Cloud

- Application availability dependent on container/serverless platform
- Application scalability increasing by micro service instance
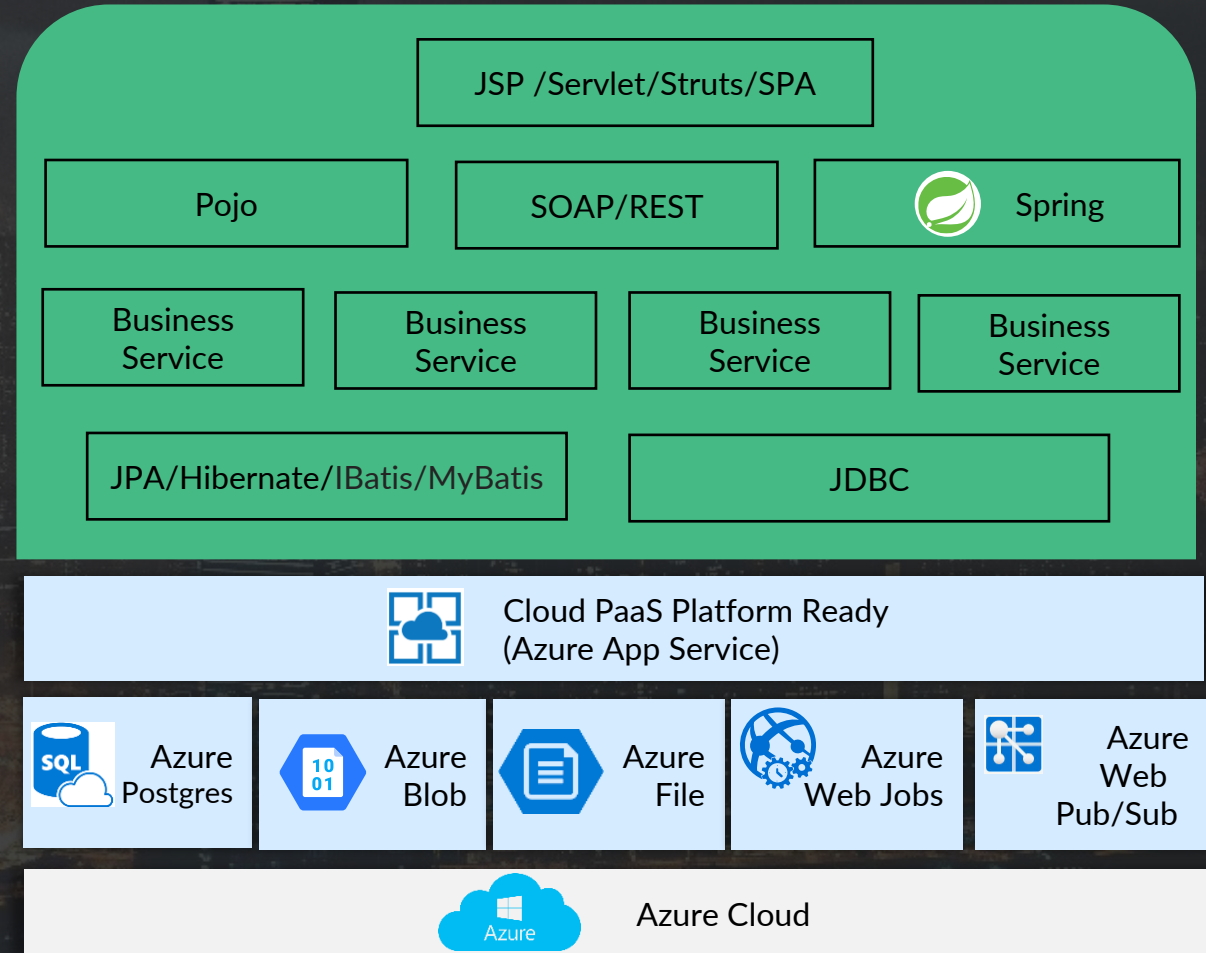- Cloud Native Architecture

Java Application Cloud Transformation

Java App Cloud Replatform powered by Amaze®

On-Prem View

JSP /Servlet/Struts/SPA

EJB	SOAP/REST	Pojo

Business Service	Business Service	Business Service	Business Service

JPA/Hibernate/IBatis/MyBatis	JDBC

Database	Application Server (WebLogic/WebSphere/JBoss)

VM	VM	VM

On-Prem Data Center

- Application availability dependent on hardware redundancy
- Application scalability limited to hardware horizontal/vertical scaling
- Monolithic Application

Post Replatform View

JSP /Servlet/Struts/SPA

Pojo	SOAP/REST	Spring

Business Service	Business Service	Business Service	Business Service

JPA/Hibernate/IBatis/MyBatis	JDBC

Cloud PaaS Platform Ready (Azure App Service)

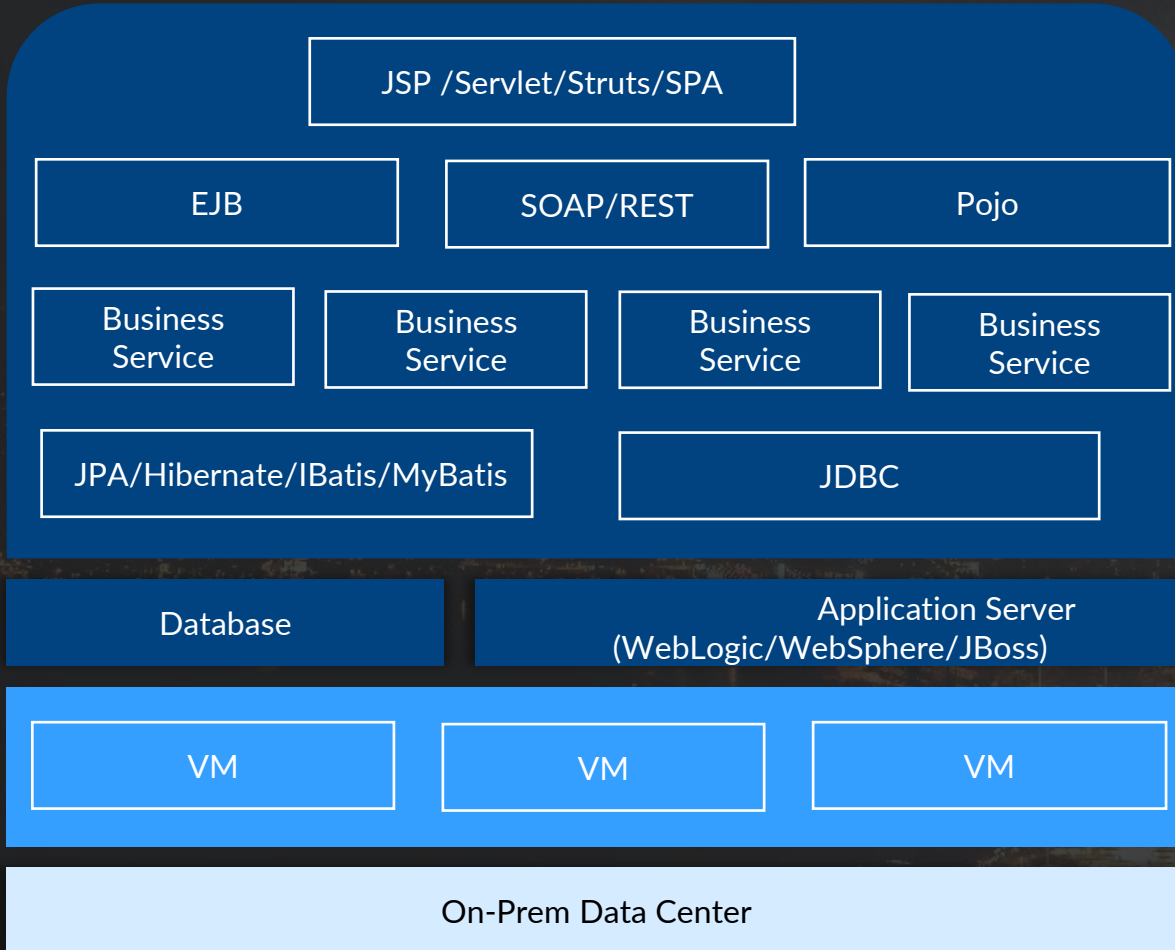| Azure Postgres	Azure Blob	Azure File	Azure Web Jobs	Azure Web Pub/Sub

Azure Cloud

- Application Platform Maintenance on Cloud
- Application Scalability on Cloud Infra
- Monolithic Application
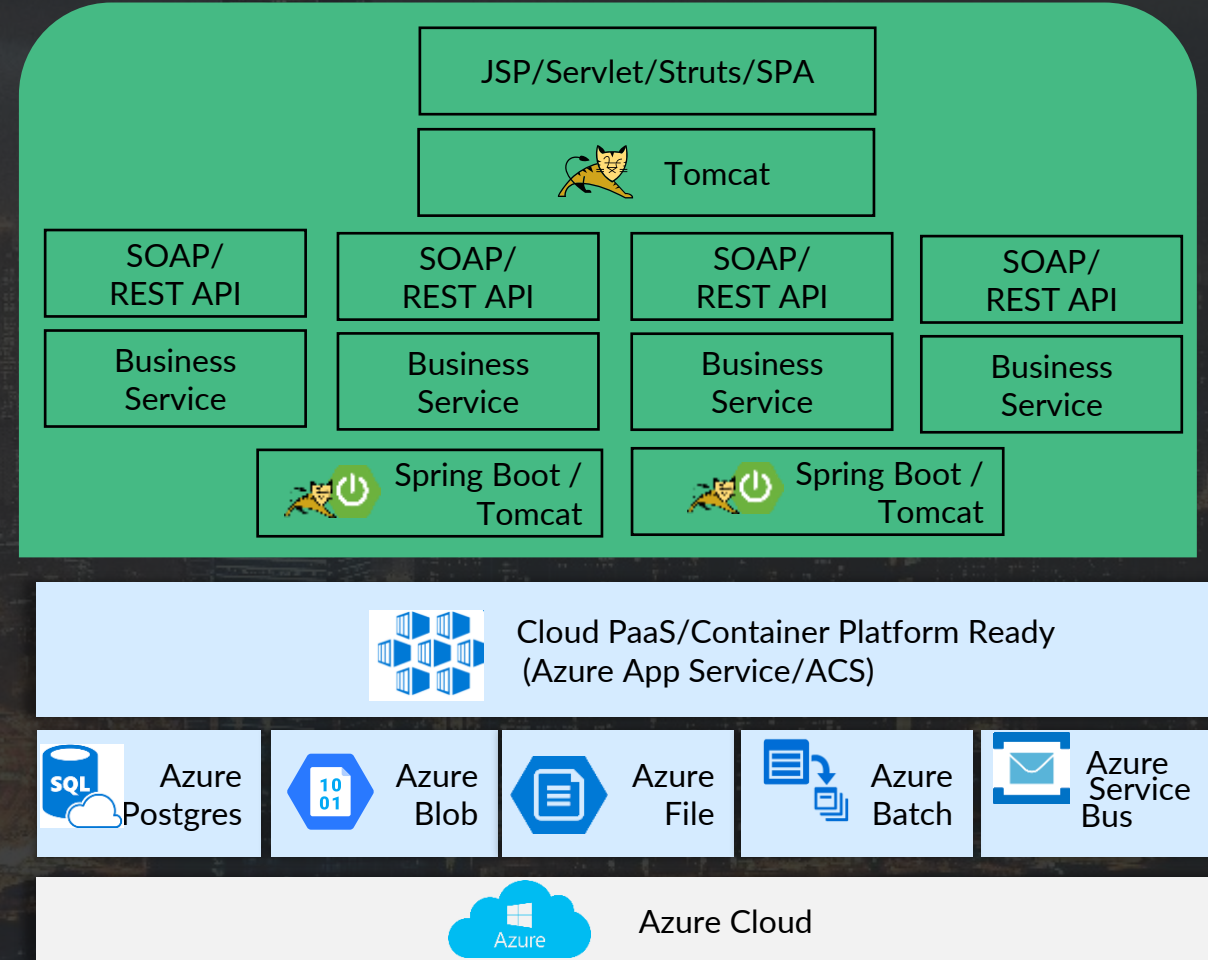
Java App Cloud Refactor powered by Amaze®

On-Prem View

JSP /Servlet/Struts/SPA		
EJB	SOAP/REST	Pojo
Business Service	Business Service	Business Service	Business Service
JPA/Hibernate/IBatis/MyBatis		JDBC

Database	Application Server (WebLogic/WebSphere/JBoss)

VM	VM	VM

On-Prem Data Center

- Application availability dependent on hardware redundancy
- Application scalability limited to hardware horizontal/vertical scaling
- Monolithic Application

Post Refactor View

JSP/Servlet/Struts/SPA
🐱 Tomcat

SOAP/ REST API	SOAP/ REST API	SOAP/ REST API	SOAP/ REST API
Business Service	Business Service	Business Service	Business Service

🐱⏻ Spring Boot / Tomcat	🐱⏻ Spring Boot / Tomcat

Cloud PaaS/Container Platform Ready (Azure App Service/ACS)

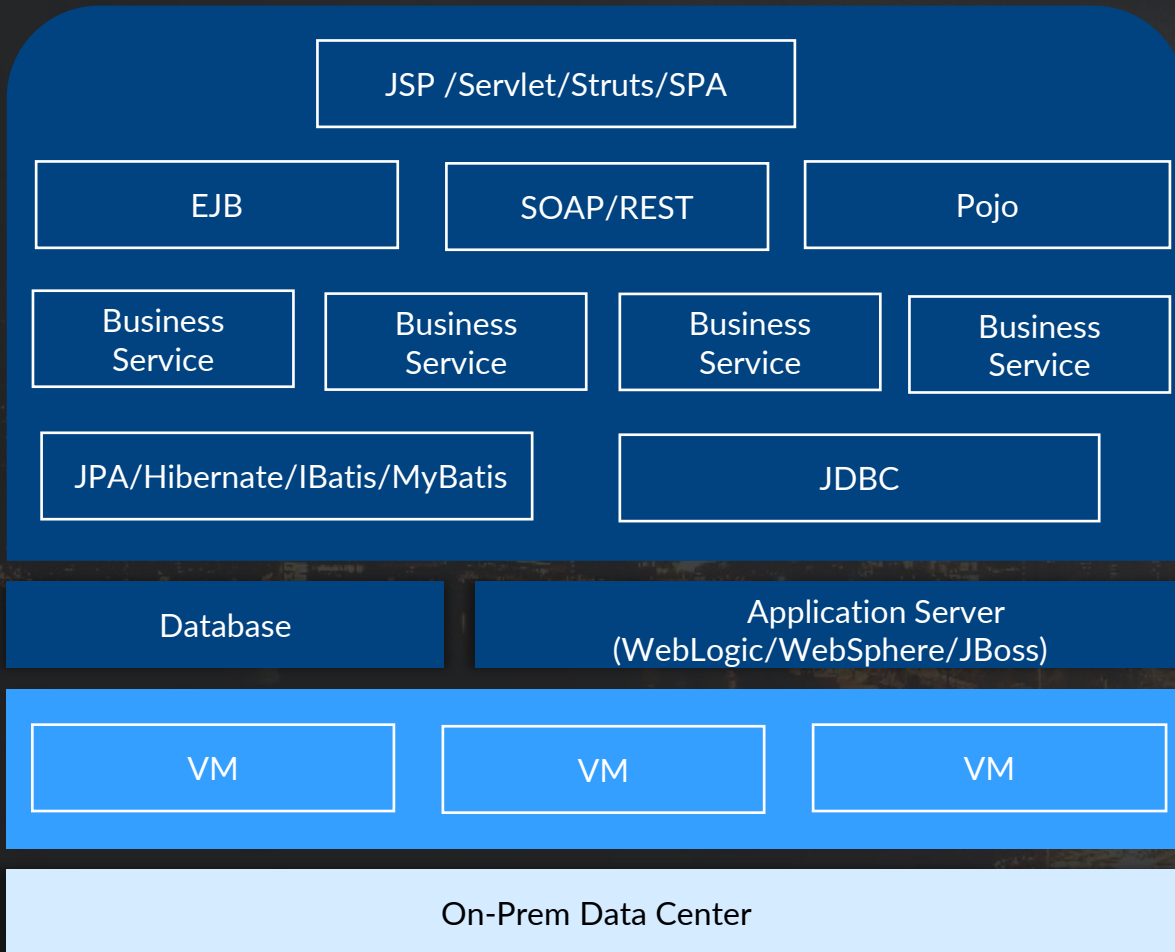| SQL Azure Postgres	Azure Blob	Azure File	Azure Batch	Azure Service Bus

Azure Cloud

- Application availability dependent on Container platform
- Application scalability increasing by API instance
- Cloud Ready Architecture with Modularized API
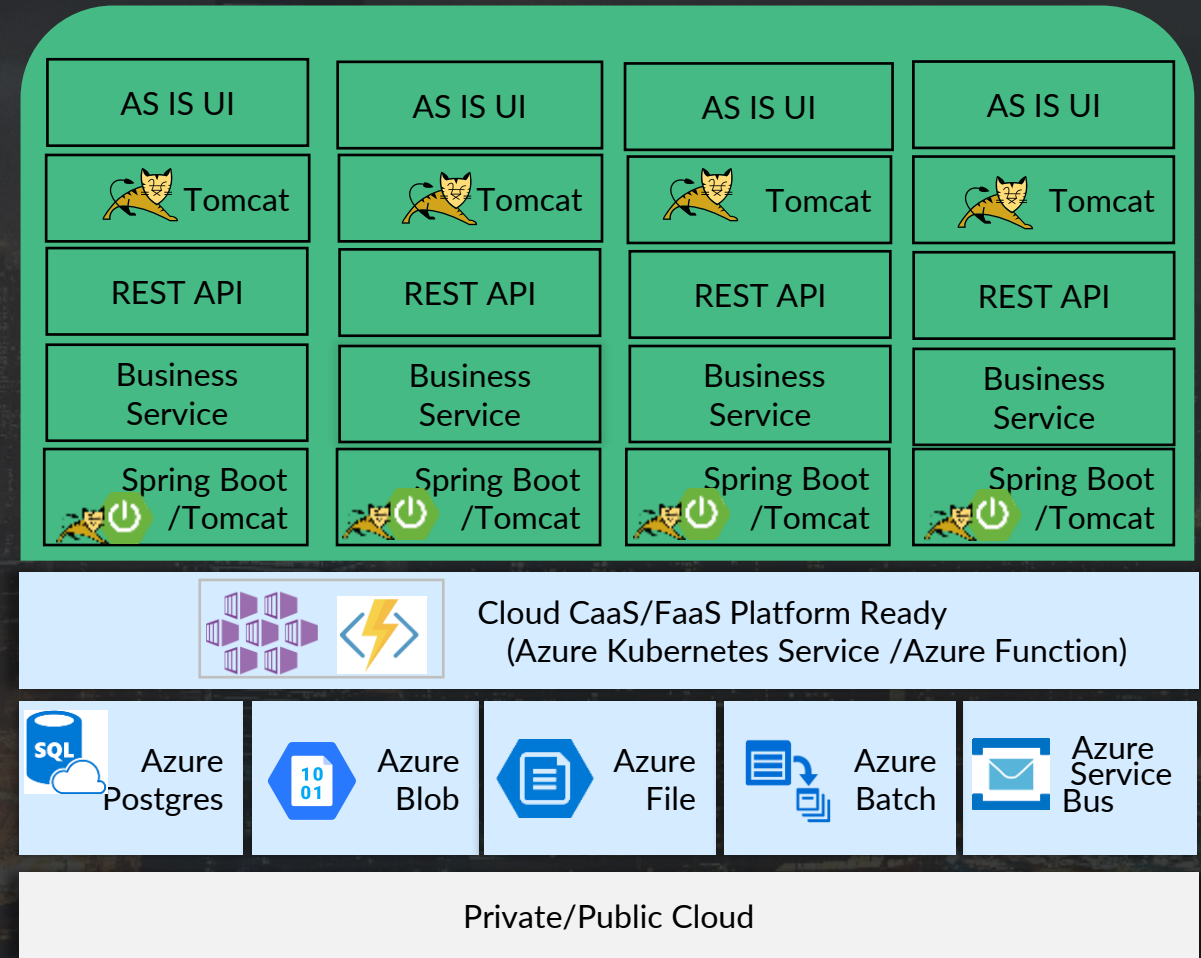
Java App Cloud Rearchitect powered by Amaze®

On-Prem View

JSP /Servlet/Struts/SPA		

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On-Prem Data Center

- Application availability dependent on hardware redundancy
- Application scalability limited to hardware horizontal/vertical scaling
- Monolithic Application

Post Rearchitect View

AS IS UI	AS IS UI	AS IS UI	AS IS UI
Tomcat	Tomcat	Tomcat	Tomcat
REST API	REST API	REST API	REST API
Business Service	Business Service	Business Service	Business Service
Spring Boot /Tomcat	Spring Boot /Tomcat	Spring Boot /Tomcat	Spring Boot /Tomcat

Cloud CaaS/FaaS Platform Ready (Azure Kubernetes Service /Azure Function)

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