

Agenda

Introduction

Spring apps development

Azure Spring Cloud overview What it does and the benefits it provides

Next steps

How you can get started with Azure Spring Cloud



What is Spring?

The best Java application development framework

Productive

Accomplish practically any Java development task Simple, fully comprehensive and modular Deployable / testable / portable Clear and well documented with great online guides

Popular

More than 50% of Java developers use Spring Boot (JVM Mag) There's over 3m visits to Spring Initializr every year Permissive Open Source License (Apache 2.0) Vibrant, passionate & committed community

Trusted

World's #1 IoC / Dependency Injection Framework Proven in production since 2004 enterprise distribution & commercial support available



Spring: the source for modern java



Spring Boot

BUILD ANYTHING

Spring Boot is designed to get you up and running as quickly as possible, with minimal upfront configuration of Spring. Spring Boot takes an opinionated view of building production-ready applications.

Spring Cloud

COORDINATE ANYTHING

Built directly on Spring Boot's innovative approach to enterprise Java, Spring Cloud simplifies distributed, microservice-style architecture by implementing proven patterns to bring resilience, reliability, and coordination to your microservices.

Spring Cloud Data Flow

CONNECT ANYTHING

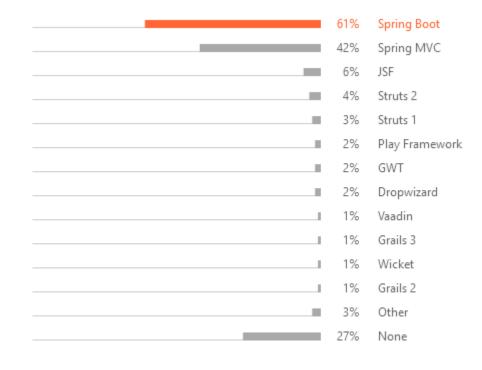
Connect the Enterprise to the Internet of Anything—mobile devices, sensors, wearables, automobiles, and more.

Spring Cloud Data Flow provides a unified service for creating composable data microservices that address streaming and ETL-based data processing patterns.

Spring

61%

Spring Boot has the largest share of Java among application development frameworks



Nov 2018	Nov 2019
52.5 Million+ downloads	95 Million+ downloads
per month	per month

Spring Boot has become the most popular Java web framework, adding 14% since last year.

https://www.jetbrains.com/lp/devecosystem-2020/java/

Spring-based microservices development

Spring Boot

Build anything

designed to get you up and running as quickly as possible, with minimal upfront configuration of Spring

Spring Cloud

Coordinate anything

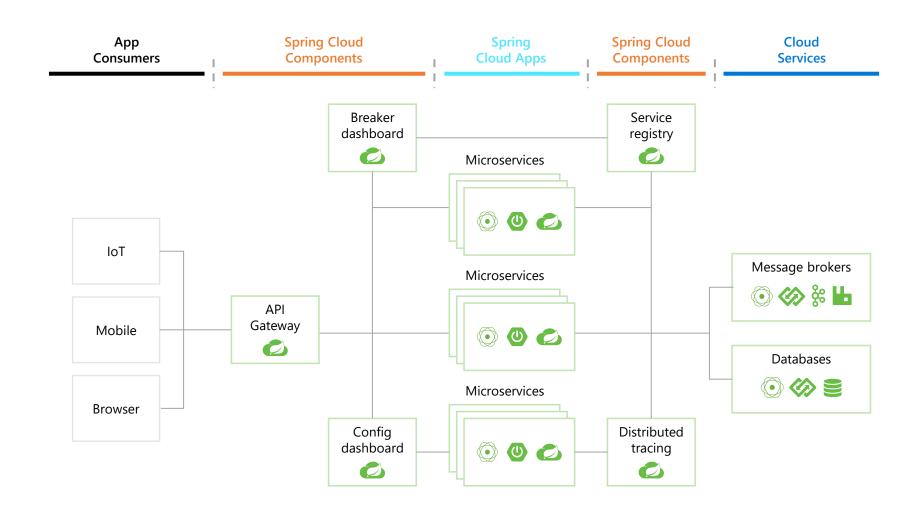
provides a set of tools that makes communication between microservices easier

Common Impediments

High effort required to manage cloud infrastructure for Spring boot applications

Application lifecycle is difficult to manage

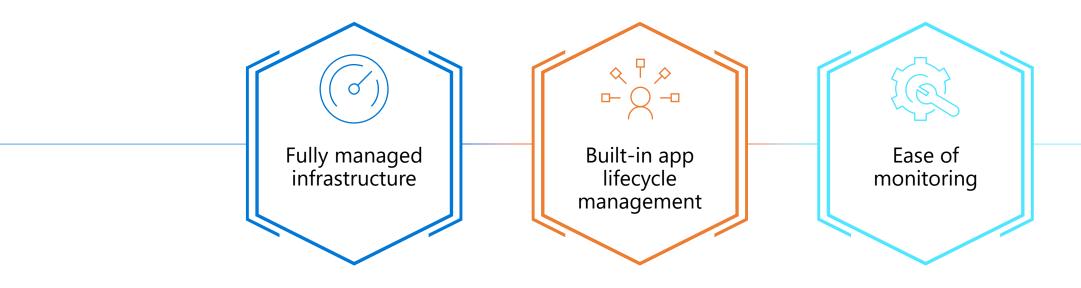
Painful to troubleshoot application issues



Azure Spring Cloud

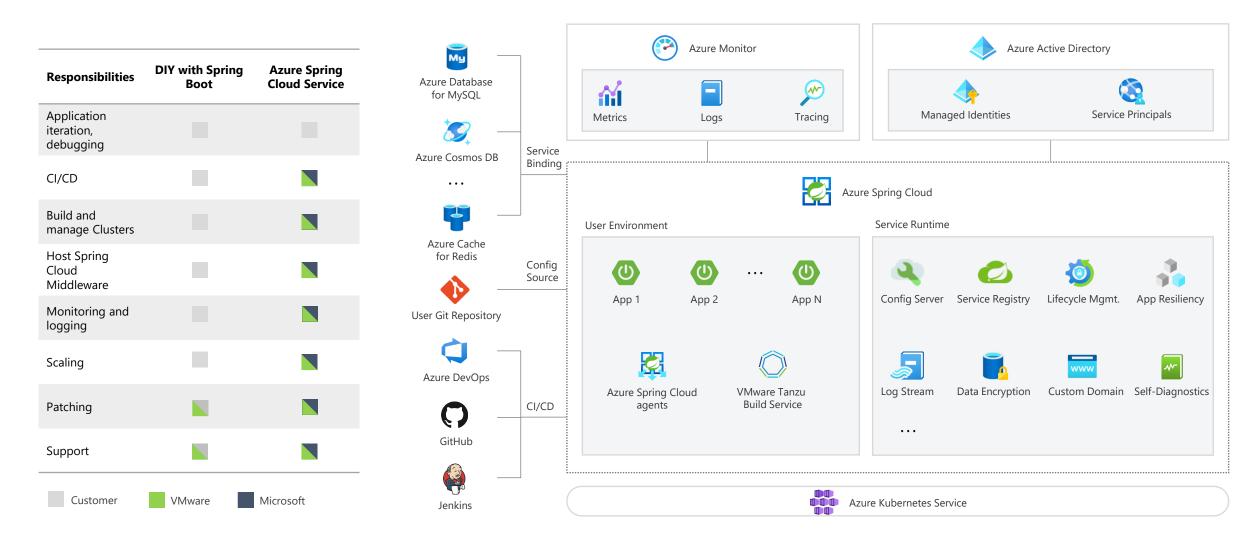
A fully managed service for Spring Boot microservices - Now General Available! 99.9% SLA

More choices and full integration into Azure's ecosystem and services

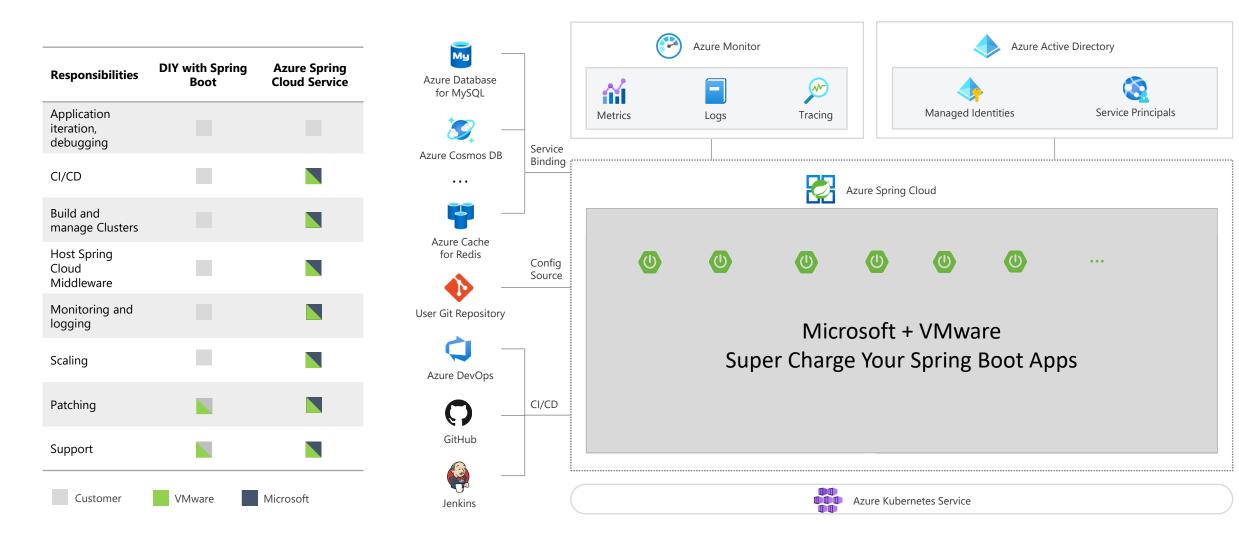


Enterprise ready

Simplify your cloud development for Spring applications



Simplify your cloud development for Spring applications



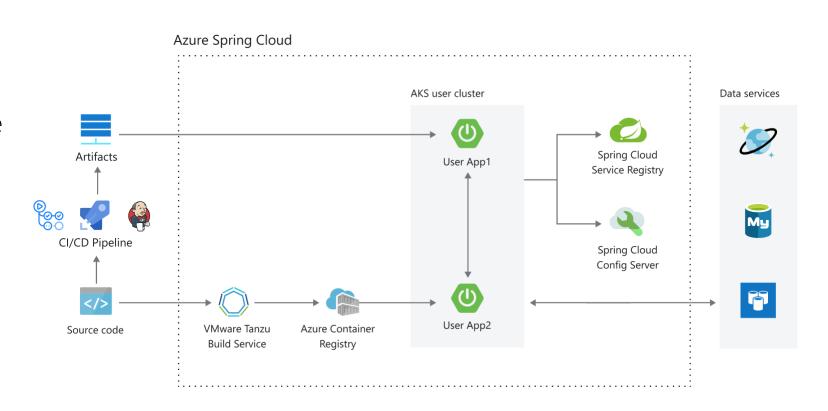
Built-in application lifecycle management

Simple app lifecycle management

Easily deploy source code or build artifacts

Automatically wire your app with Spring Cloud infrastructure

Integrated CI/CD pipeline for deployment



Ease of monitoring

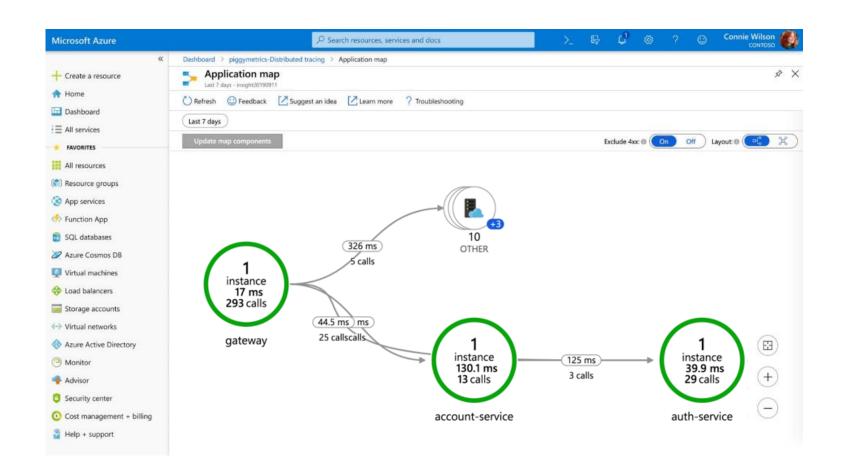
Gain insights with Azure Monitor

View aggregated logs, System and JVM Metrics

Distributed tracing

Stream logs in real-time

Threshold Alerting



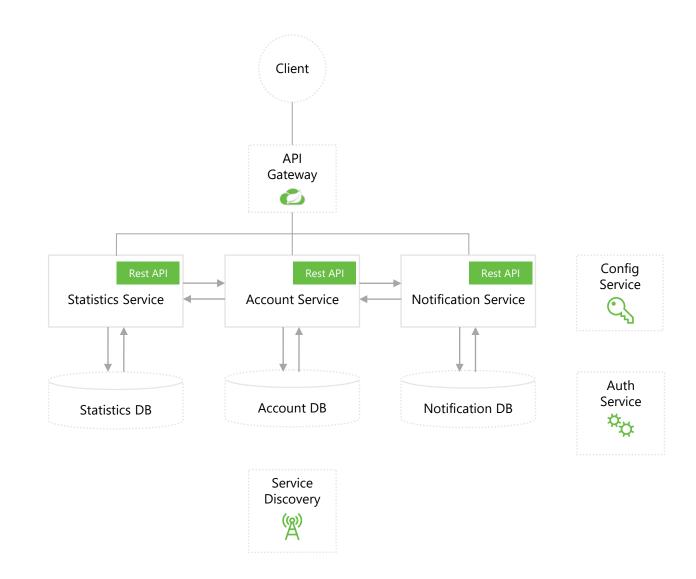
Demo

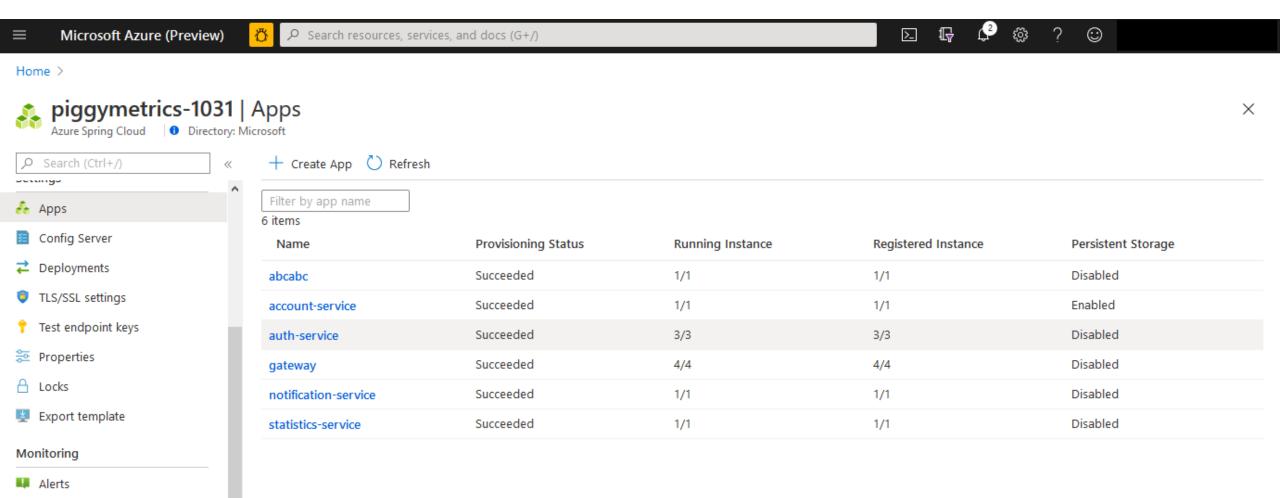
Deploy Spring Cloud app to Azure without worrying about:

Infrastructure and scaling

Spring Cloud middleware – config, registry, tracing and gateway, or

Monitoring





Metrics



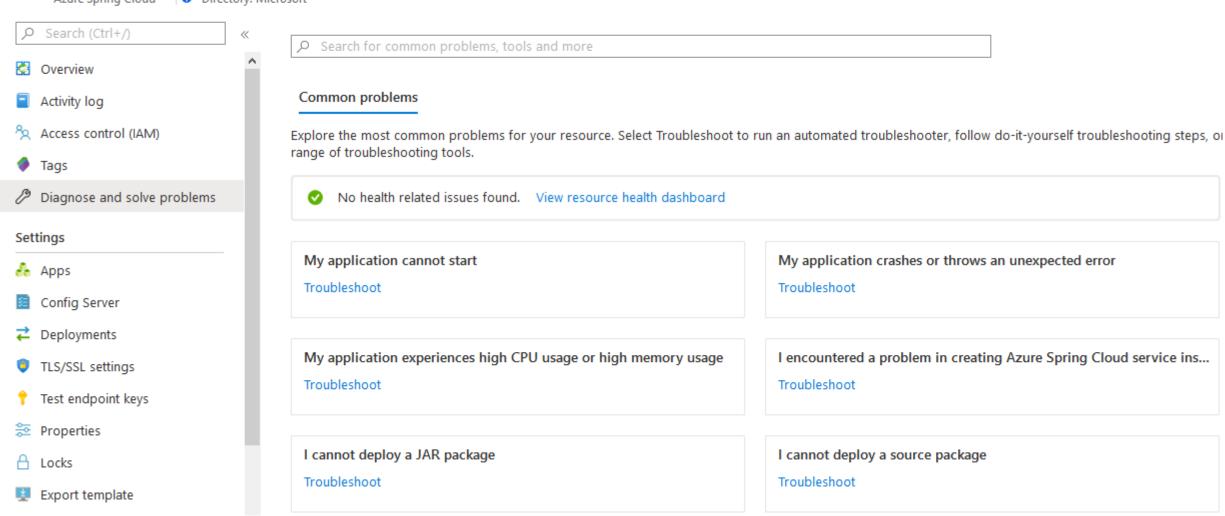






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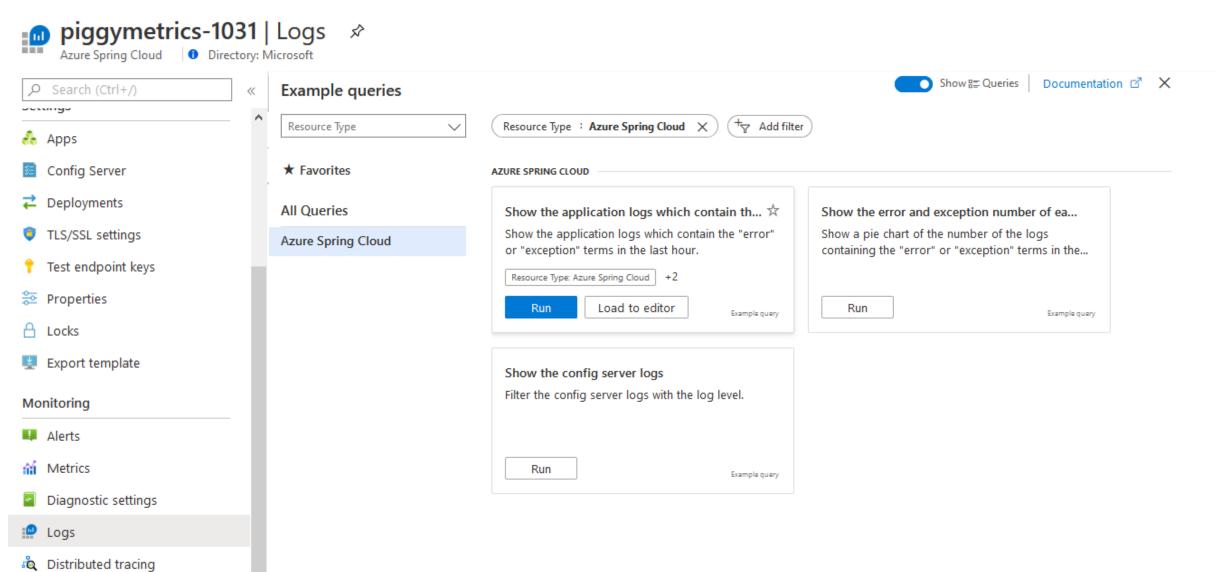




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Support + troubleshooting

New support request



Packaging Tiers and Pricing

	BASIC	STANDARD
	FOR TIRE KICKING AND INDIVIDUAL DEV/TEST	FOR GENERAL PURPOSE PRODUCTION WORKLOADS
Base price	\$427/month or \$0.585/hr	\$1,204/month or \$1.65/hr
Included vCPU and Memory	5 vCPU, 10 GB	16 vCPU, 32 GB
Additional vCPU price	\$0.062/hour	\$0.00825/hour
Additional memory price	\$0.00699/hour	\$0.0783/hour
Max App instance size	1 vCPU, 2 GB	4 vCPU, 8 GB
Max App instances	25	500
SLA	_	✓
Highly available Spring Cloud runtime	-	✓
Custom domains / SSL	_	✓
VNET integration	-	✓
Blue/Green Deployment	_	✓

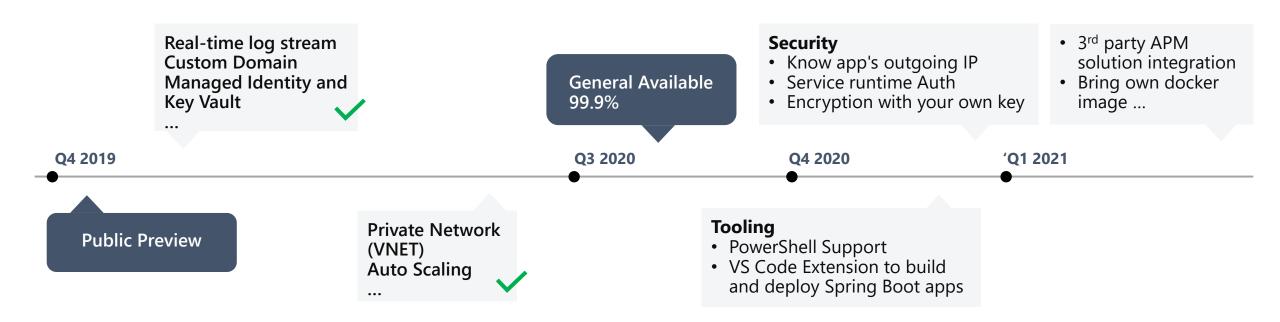
Example:

20 vCPU and **40 GB** memory on Standard Tier

Base unit: \$1204	
16 vCPU 32 GB	
+	
vCPU Overage: 4*\$56.3	= \$1,481
4 vCPU	
+	
Memory Overage: 8*\$5.94	
8 GB	

- Azure Free Credit programs can be applied to this service (\$200 credit will cover approximately half a month of Basic Tier)
- Though above price is estimated for one month. All meters are charged by seconds based on actual usage.
- For each service instance, Azure Spring Cloud charges for one 'vCPU and memory group duration' which includes some vCPUs and Memory. When you exceed either, or both, of the capacities included in the 'vCPU and memory group duration', you will be billed for the actual additional usage based on the total 'Overage Memory Duration' and 'Overage vCPU Duration'.

Azure Spring Cloud Roadmap



West Europe, East US Southeast Asia, West US 2 East US2, Central US, Australia East, UK South, North Europe, South Central US

China East 2, West US, UAE North Canada Central, Brazil South

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Azure Spring Starters



Spring Cloud

App Configuration

Event Hubs

Service Bus

Storage

Redis

Functions



R2DBC

SQL Database PostgreSQL MySQL



Spring Data

SQL Database

MySQL

PostgreSQL

Maria DB

Cosmos DB

- SQL
- MongoDB
- Cassandra
- Gremlin



Spring Security

Active Directory (AAD)

AAD B2C

Microsoft 365

Microsoft Account

Key Vault



Spring Resource

Storage



Spring Messaging

Service Bus



Spring Cache

Redis Cache



Micrometer

Monitor (includes

Log Analytics)

Learn More

Try Azure Spring Cloud

- https://aka.ms/get-started-with-azure-spring-cloud
- https://azure.microsoft.com/services/spring-cloud/

Use Azure Spring starters to interact with Azure services

https://docs.microsoft.com/azure/developer/java/spring-framework/

Learn Azure Spring Cloud with self-paced workshops

- https://docs.microsoft.com/learn/modules/azure-spring-cloud-workshop/
- https://github.com/microsoft/azure-spring-cloud-training

Give us your feedback

https://aka.ms/springazure





Thank you