



Az COMMUNITY

—— Conference 2022 ——

Asia's Largest Azure Community Conference

#AzConfDev



David de Hoop

Special Agent – Microsoft Azure & DevOps
Team Rockstars IT, Amsterdam, The Netherlands



Microsoft Azure for Java Developers

Friday, October 21st 2022

#AzConfDev

 @Davidshadoow

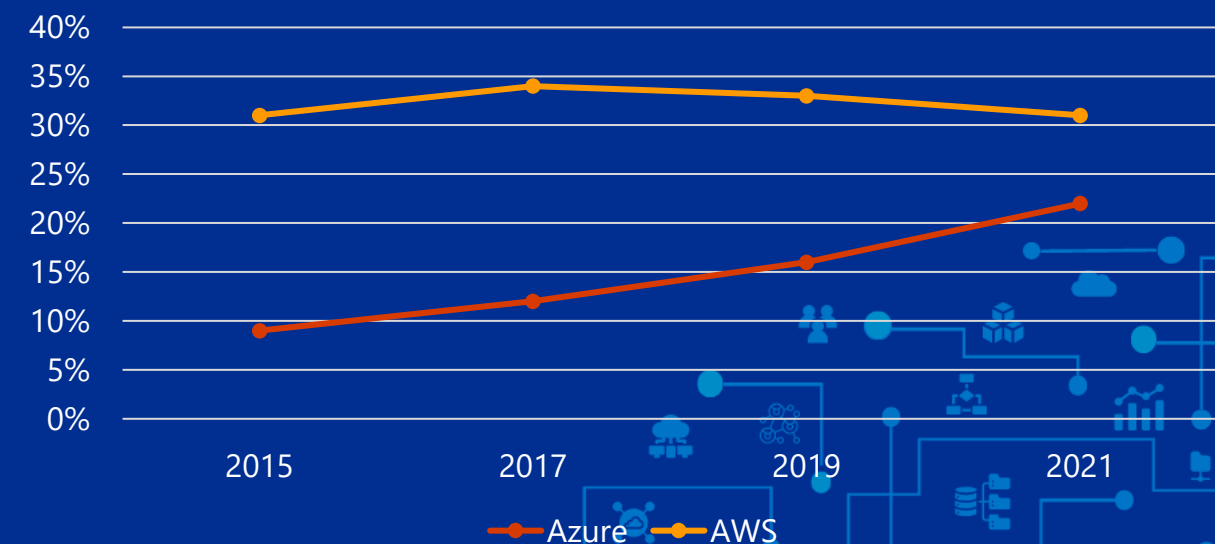


Why would I run my Java application on Azure?

Why every Java dev thinks AWS

- Azure has had a strong Windows focus since its release in 2010
- AWS beat Azure in time-to-market
- Amazon embraced the open-source community early on
 - Heavily invested in Linux and UNIX offerings

Market share IaaS+PaaS per CSP



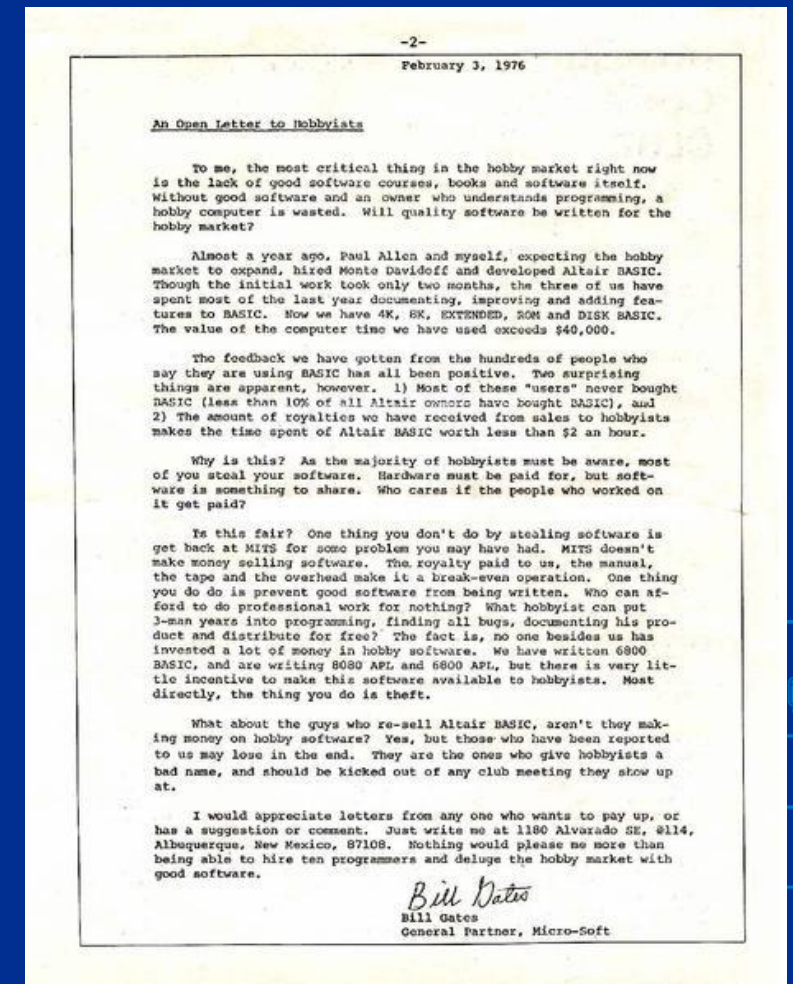
How Microsoft embraced open-source

1975

Microsoft founded as Micro-Soft

1976

Open-source threatening business model



February 3, 1976

An Open Letter to Hobbyists

To me, the most critical thing in the hobby market right now is the lack of good software courses, books and software itself. Without good software and an owner who understands programming, a hobby computer is wasted. Will quality software be written for the hobby market?

Almost a year ago, Paul Allen and myself, expecting the hobby market to expand, hired Monte Davidoff and developed Altair BASIC. Though the initial work took only two months, the three of us have spent most of the last year documenting, improving and adding features to BASIC. Now we have 4K, 8K, EXTENDED, ROM and DISK BASIC. The value of the computer time we have used exceeds \$40,000.

The feedback we have gotten from the hundreds of people who say they are using BASIC has all been positive. Two surprising things are apparent, however. 1) Most of these "users" never bought BASIC (less than 10% of all Altair owners have bought BASIC), and 2) The amount of royalties we have received from sales to hobbyists makes the time spent of Altair BASIC worth less than \$2 an hour.

Why is this? As the majority of hobbyists must be aware, most of you steal your software. Hardware must be paid for, but software is something to share. Who cares if the people who worked on it get paid?

Is this fair? One thing you don't do by stealing software is get back at MITS for some problem you may have had. MITS doesn't make money selling software. The royalty paid to us, the manual, the tape and the overhead make it a break-even operation. One thing you do do is prevent good software from being written. Who can afford to do professional work for nothing? What hobbyist can put 3-man years into programming, finding all bugs, documenting his product and distribute for free? The fact is, no one besides us has invested a lot of money in hobby software. We have written 6800 BASIC, and are writing 8080 APL and 6800 APL, but there is very little incentive to make this software available to hobbyists. Most directly, the thing you do is theft.

What about the guys who re-sell Altair BASIC, aren't they making money on hobby software? Yes, but those who have been reported to us may lose in the end. They are the ones who give hobbyists a bad name, and should be kicked out of any club meeting they show up at.

I would appreciate letters from any one who wants to pay up, or has a suggestion or comment. Just write me at 1180 Alvarado SE, #114, Albuquerque, New Mexico, 87108. Nothing would please me more than being able to hire ten programmers and deluge the hobby market with good software.

Bill Gates

Bill Gates
General Partner, Micro-Soft

"Most of you steal your software"

"Who can afford to do professional work for nothing"

"One thing you do is prevent good software from being written"

"Nothing would please me more than being able to hire ten programmers"



How Microsoft embraced open-source

● **1990s**

Stability and reliability not feasible with open-source

● **2004**

Started with small contributions to open-source projects



● **2010**

● **2014**

.NET Framework became open-source

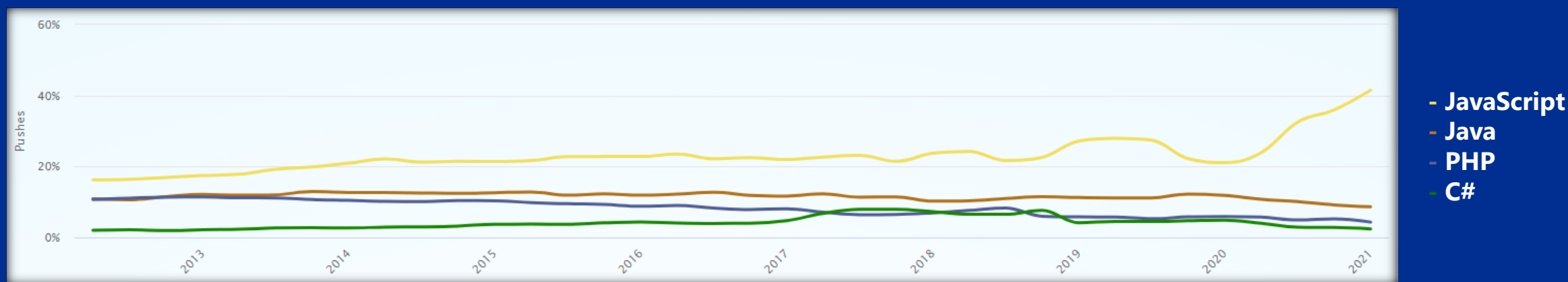


● **2018**

.GitHub merger

Diversity on the Azure platform

Commits to GitHub: Java, JavaScript, PHP & C#



- Compute services got support for Java, Node.JS and PHP
- Uprise of containers and microservices
- New service were developed with cross-platform usage in mind, like Azure CosmosDB

Java on the Azure platform



Compute

- Support for Java 8, 11 and 17 on Azure App Service
- Support for Tomcat (8.5,9.5,10), JBoss and Java SE webserver
- Publish Docker container as PaaS
- Run Spring microservices on AKS, Azure Container Apps or Azure Spring Cloud



Databases

- PaaS services for MySQL, PostgreSQL and MariaDB
- Azure Cosmos DB as open-source NoSQL service met support voor Cassandra, MongoDB en Gremlin
- **NEW!** PostgreSQL support on CosmosDB for relational databases

Native services



Azure Spring Cloud

- Managed environment for Spring and Spring Boot applications and microservices.
- Publish Docker container as PaaS
- Fully integrated with security monitoring, logging and IAM



- Spring Boot starters for Azure Active Directory, Key Vault, Storage and Cosmos DB via **Spring Initializr**.
- **GitHub repository** with Spring Boot sample code for all cloud native Azure services.
- Spring Cloud Azure SDK with connections for Service Bus, Event Hubs, Redis Cache and Azure Functions.



Demo

Azure in the IDE



JetBrains IntelliJ IDEA

- Azure Toolkit for IntelliJ plugin for Azure integraties in de IDE
- 1-click deployments and debugging of Azure services
- Emulator voor Storage en Azure Cosmos DB



Eclipse

- Azure Toolkit for Eclipse plug-in
- 1-click deployments for Azure App Services with Tomcat or JBoss
- Azure Storage explorer integrated in IDE

Azure in the IDE



Application Insights

- Live real-time monitoring and tracing
- Trace and log custom events in your application
- Persistent storage of log data

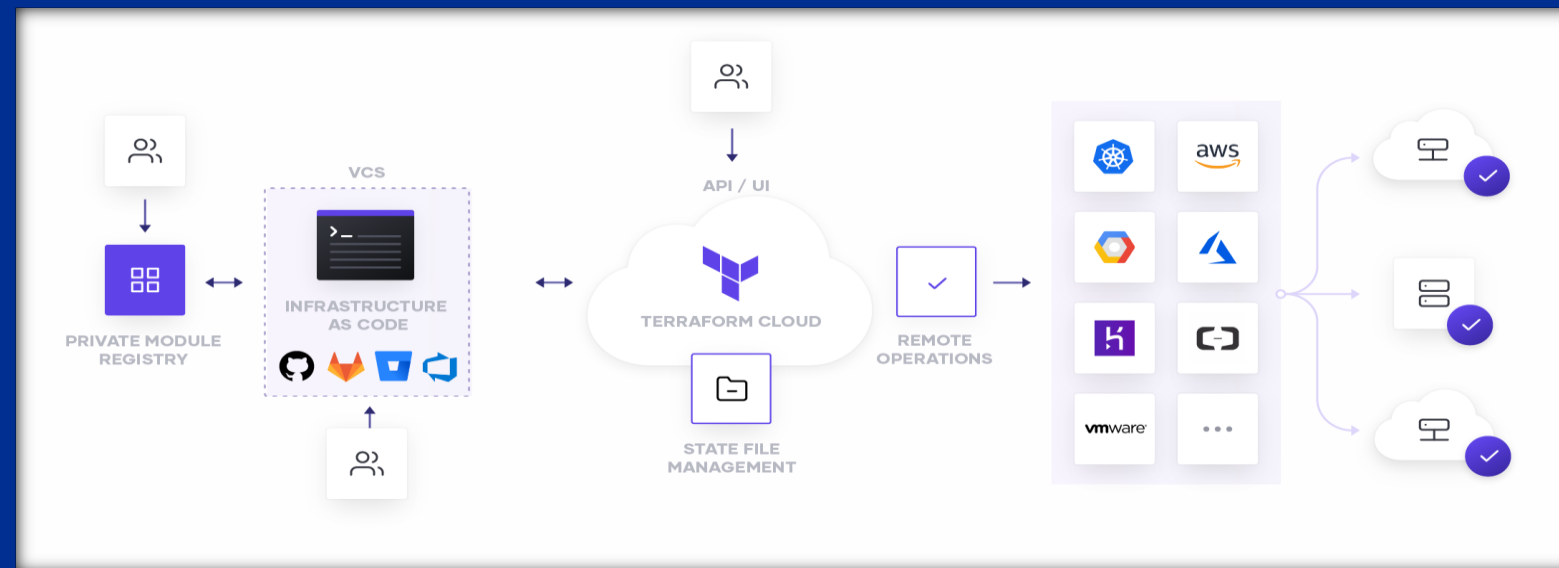


Azure CLI

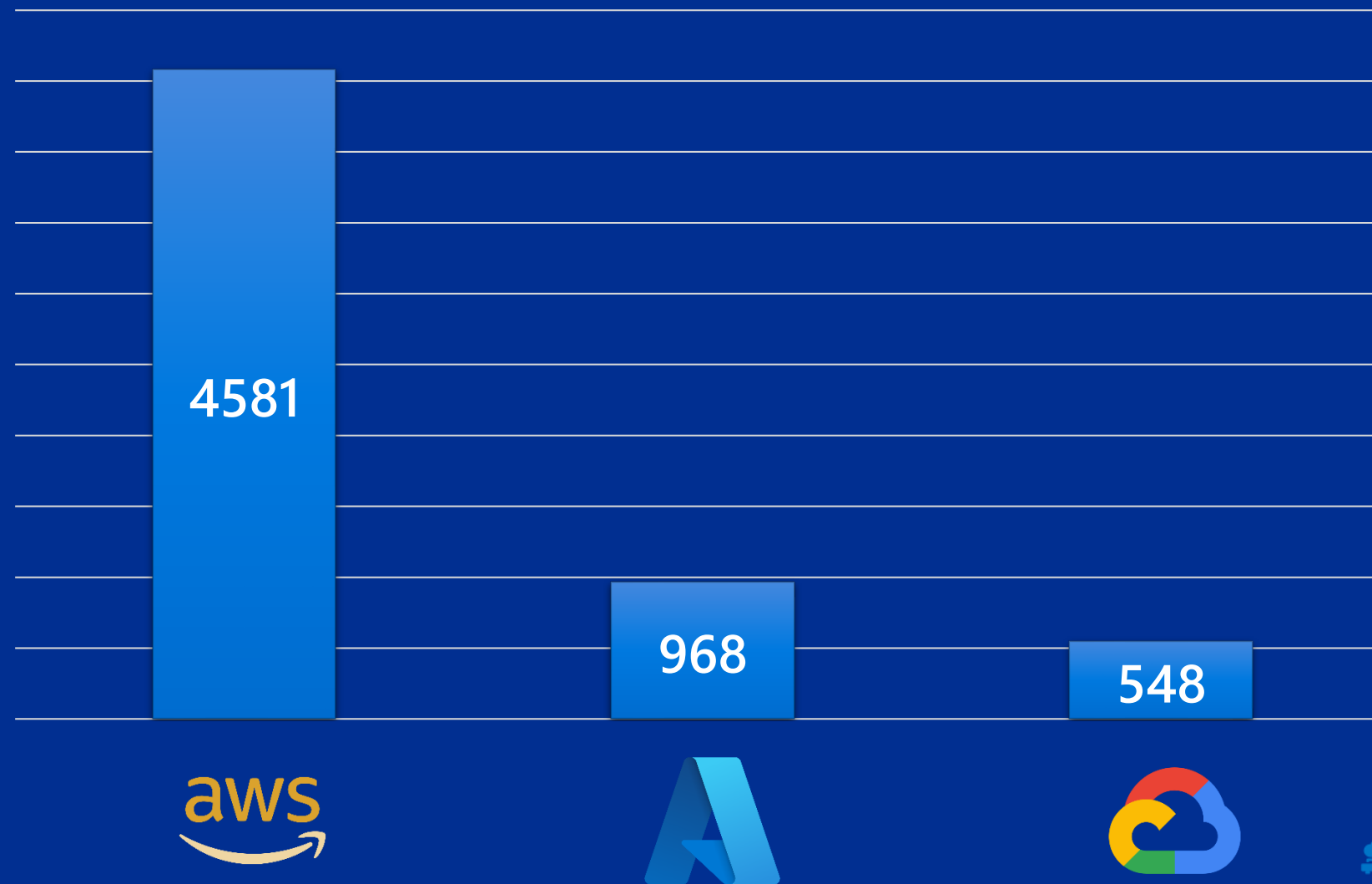
- Command-line interface in Bash
- 100% feature complete with Azure PowerShell
- Support for macOS and Linux

What about Multicloud

- Declare infrastructure independent from your Cloud Service Provider
- No more big-bang migrations
- Best of both cloud worlds



Terraform package availability per CSP



Microsoft Azure | In the end

- Strong Linux offerings and support for open-source stacks
- Market leader in Identity Access Management and on-premises integrations
- Big focus on developer experience





Why would I run my Java application on Azure?

Choose the CSP that best fits
with the demands of your app



Use more than one Public Cloud



Utilize USP's, avoid feature gaps

THANK YOU!



Microsoft Azure for Java Developers

David de Hoop

 @Davidshadoow

 gitlab.com/daviddehoop

 linkedin.com/in/daviddehoop

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