

# Brian.About();



- Partner with MCW Technologies, <u>www.mcwtech.com</u>
- Co-author Pro ALM 2013 from Wrox
- 15 year Microsoft MVP—Development Technologies
- Linked In Learning author
  - New course DevOps for the Database with VSTS and Azure <a href="https://bri.gd/lildbdevopsvsts0818">https://bri.gd/lildbdevopsvsts0818</a>
  - Also Db DevOps with TFS 2018 <a href="http://bri.gd/lildbdevopstfs18">http://bri.gd/lildbdevopstfs18</a>
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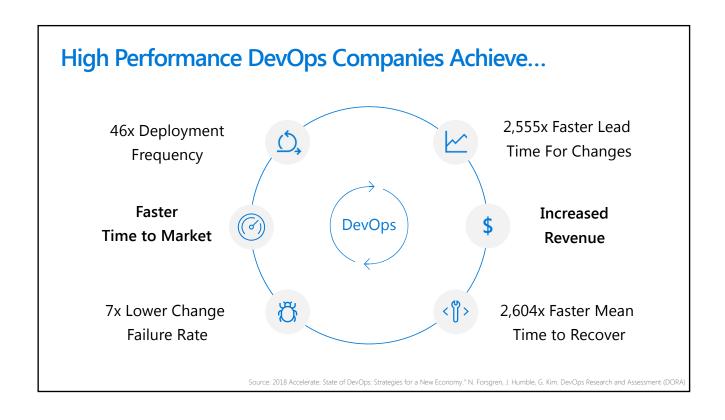












# How Microsoft can help

Microsoft Azure is a powerful and flexible foundation for past, present, and future apps – easily build, manage, and deploy any application and any stack on a massive, global network using your favorite tools and frameworks.



### **Flexible**

Choice of IaaS, PaaS, public cloud or hybrid.

Mirror or modernize app infrastructure with VMs, containers, microservices or serverless.

Supports all stages of the app modernization journey – from lift-and-shift to Cloud-Native.



### Powerful

Instantly improve the performance, scalability and resiliency of your apps by moving them to the cloud.

Increase business agility with Cloud-Native capabilities and built-in DevOps for continuous innovation.



### Open

Bring your stack, we bring a cloud that runs any app, on any platform, and any language.

Build applications using the language and tools of your choice - Azure supports what you already use and love so you can get up and running fast – just bring code.

# What technologies do I need to support DevOps?

DevOps brings together people, processes, and technology, automating software delivery to provide continuous value to your users. Using Azure DevOps, you can deliver software faster and more reliably - no matter how big your IT department or what tools you're using.



### Continuous Integration (CI)

- Improve software development quality and speed.
- When you use Azure Pipelines or Jenkins to build apps in the cloud and deploy to Azure, each time you commit code, it's automatically built and tested and bugs are detected faster.

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### Continuous Deployment (CD)

- By combining continuous integration and infrastructure as code (IaC), you'll achieve identical deployments and the confidence to deploy to production at any time.
- With continuous deployment, you can automate the entire process from code commit to production if your CI/CD tests are successful.



### **Continuous Learning & Monitoring**

- With Azure Application Insights you can identify how your applications are performing and test if the recent deployment made things better or worse.
- Using CI/CD practices, paired with monitoring tools, you'll be able to safely deliver features to your customers as soon as they're ready.

# **Introducing Azure DevOps**



### **Azure Boards**

Deliver value to your users faster using proven agile tools to plan, track, and discuss work across your teams.



### **Azure Test Plans**

Test and ship with confidence using manual and exploratory testing tools.



### **Azure Pipelines**

Build, test, and deploy with CI/CD that works with any language, platform, and cloud. Connect to GitHub or any other Git provider and deploy continuously.



### **Azure Artifacts**

Create, host, and share packages with your team, and add artifacts to your CI/CD pipelines with a single click.



### **Azure Repos**

Get unlimited, cloud-hosted private Git repos and collaborate to build better code with pull requests and advanced file management.



https://azure.com/devops

# **Azure Pipelines**

Cloud-hosted pipelines for Linux, Windows and macOS, with unlimited minutes for open source



Any language, any platform, any cloud Build, test, and deploy Node.js, Python, Java, PHP, Ruby, C/C++, .NET, Android, and iOS apps. Run in parallel on Linux, macOS, and Windows. Deploy to Azure, AWS, GCP or on-premises



### Extensible

Explore and implement a wide range of communitybuilt build, test, and deployment tasks, along with hundreds of extensions from Slack to SonarCloud. Support for YAML, reporting and more



### **Containers and Kubernetes**

Easily build and push images to container registries like Docker Hub and Azure Container Registry. Deploy containers to individual hosts or Kubernetes.

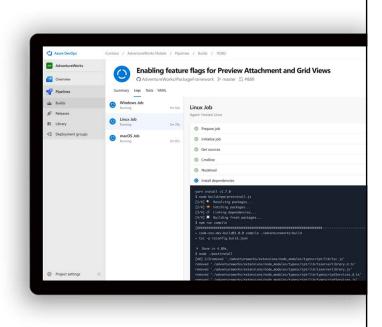


### Best-in-class for open source

Ensure fast continuous integration/continuous delivery (CI/CD) pipelines for every open source project. Get unlimited build minutes for all open source projects with up to 10 free parallel jobs across Linux, macOS and Windows

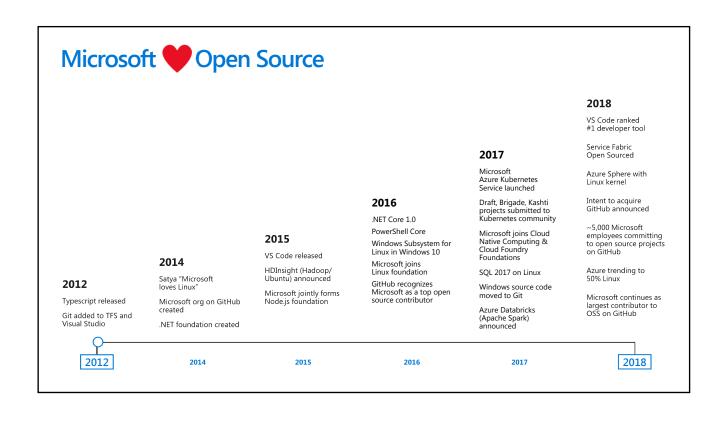


https://azure.com/pipelines



# Visual Studio Live! San Diego 2018





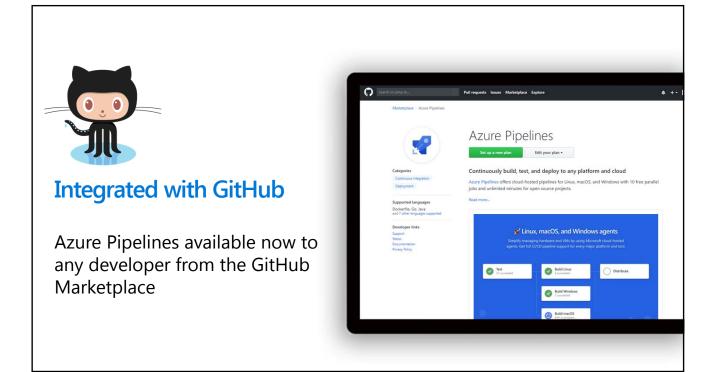


Free **unlimited** build minutes for public projects

Up to 10 free parallel jobs across Windows, Linux and macOS

https://azure.com/pipelines

Microsoft Open Source



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https://azure.com/devops

# **Azure Boards**

Track work with Kanban boards, backlogs, team dashboards, and custom reporting



### Connected from idea to release

Track all your ideas at every development stage and keep your team aligned with all code changes linked directly to work items.



### Scrum ready

Use built-in scrum boards and planning tools to help your teams run sprints, stand-ups, and planning meetings.

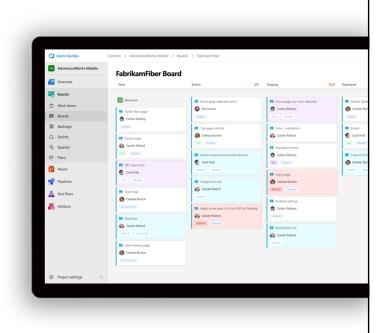


### **Project insights**

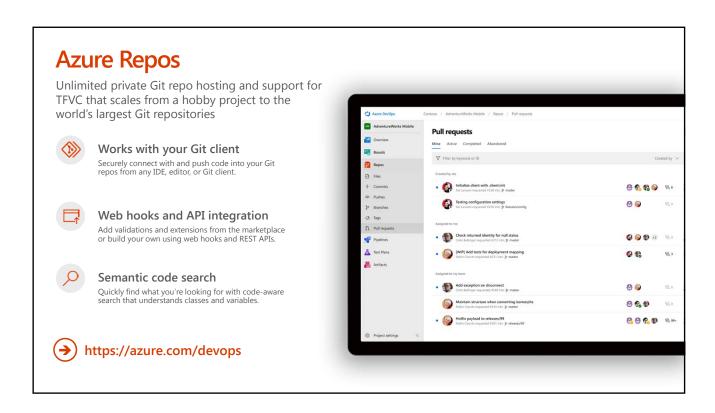
Gain new insights into the health and status of your project with powerful analytics tools and dashboard widgets.

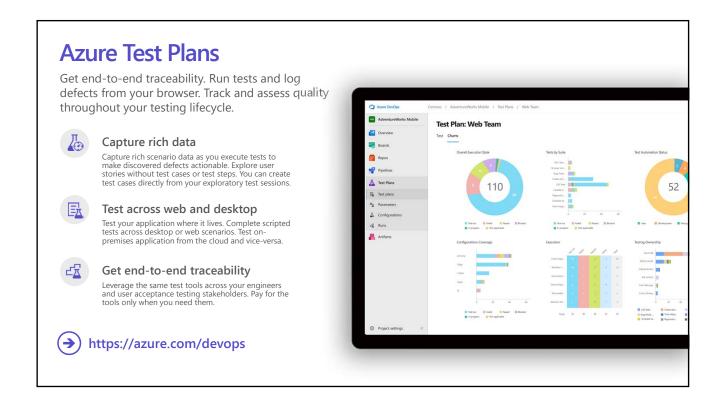


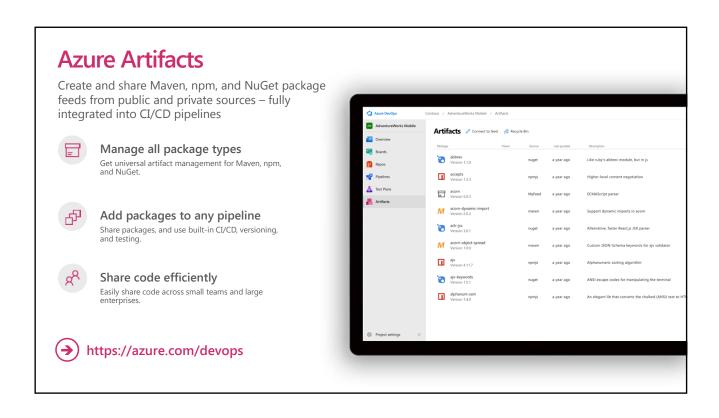
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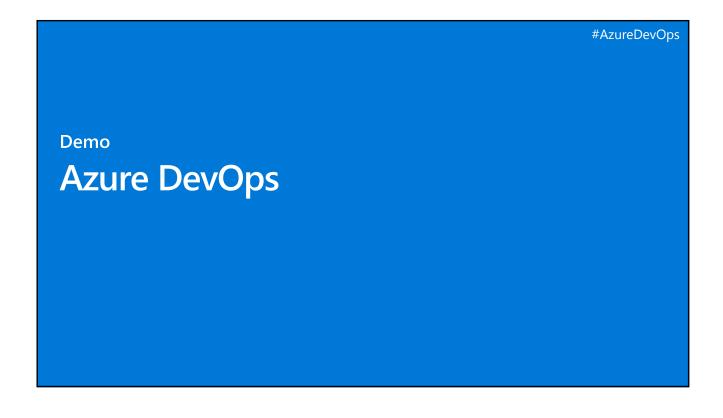


# Visual Studio Live! San Diego 2018

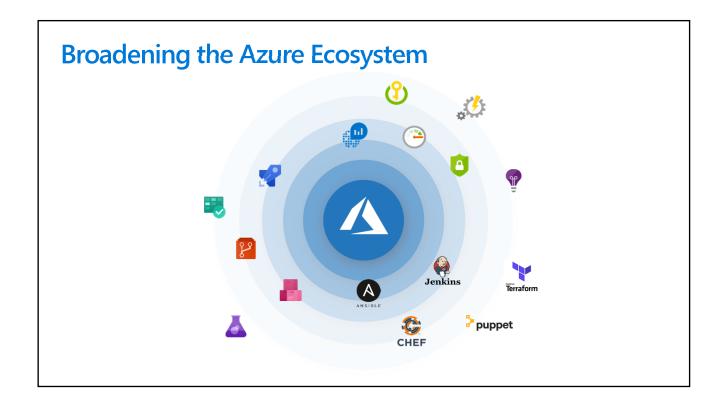


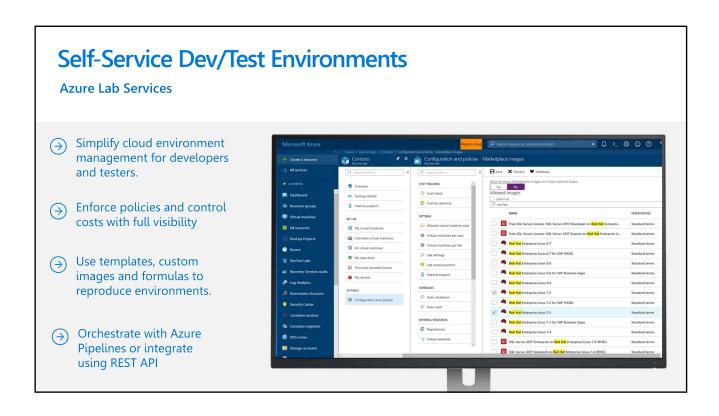


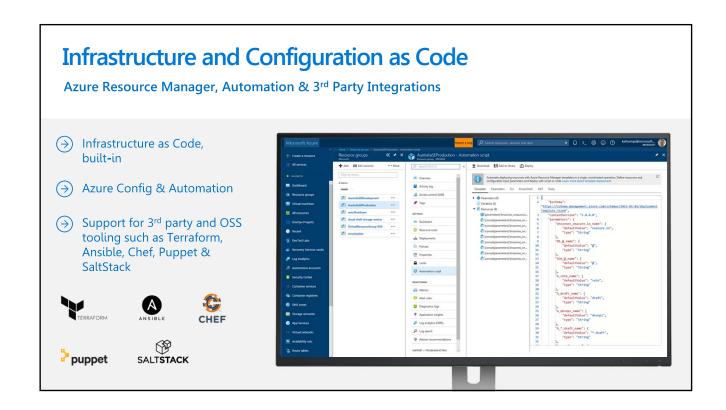




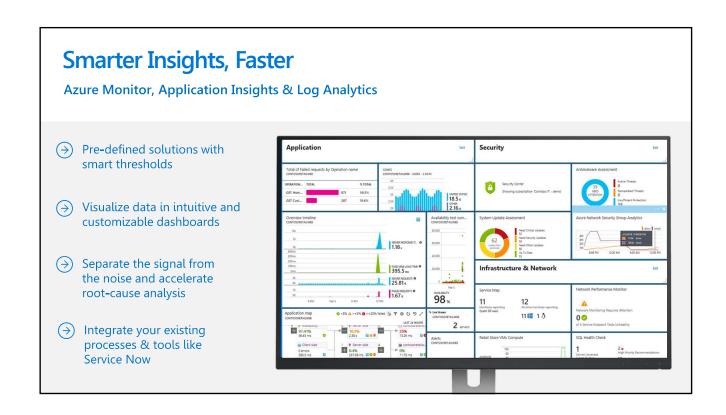


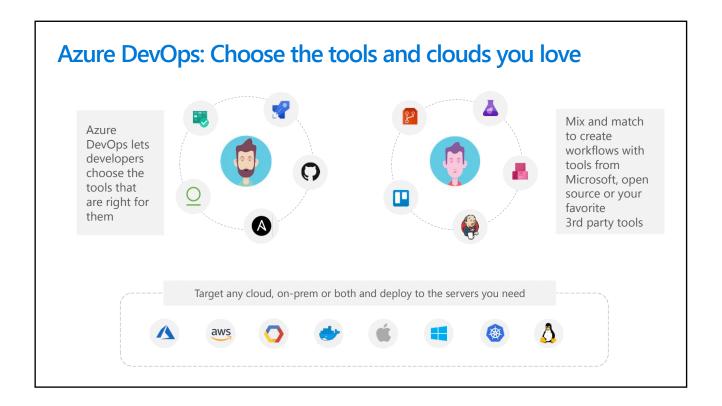












# Azure DevOps supports small teams to largest enterprises



for Instead of telling people to wait for 6 months for a new feature, we can give it to them in a few weeks...Our 2800 worldwide developers can use the same backlog, user stories and tests whether they're on Windows or Linux... building for iOS or Android.

# Columbia

outside the silos... and tie the DevOps process into the fulfilment of business process. Without the tools that we have today, we would not be successful.

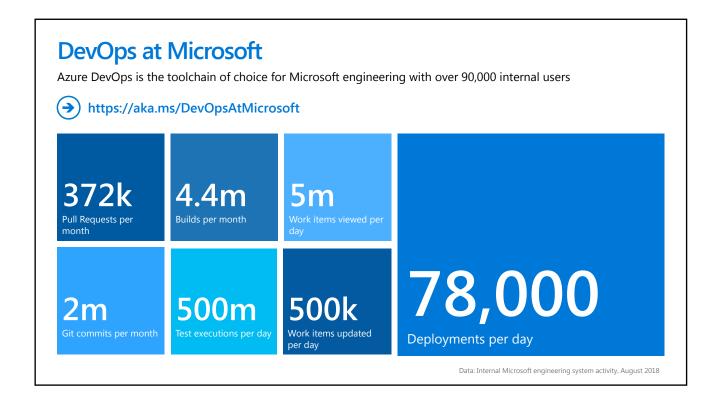
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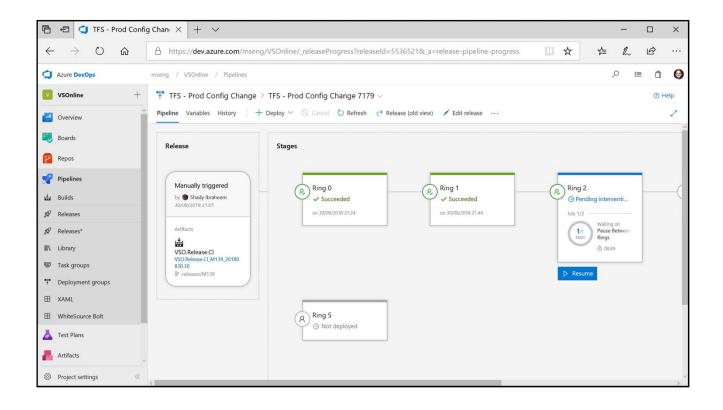
offering of Azure DevOps. PaaS provides regularly released features and a future-proof capability, eliminating the need for Accenture to maintain infrastructure and go through upgrade cycles.



<sup>66</sup> Branches sync 500 percent faster. Builds are 400 percent faster, with the typically six-hour process reduced to 90 minutes. We (now have) a highly streamlined process that operates with a few button clicks—and one-button deployment. <sup>53</sup>

# Visual Studio Live! San Diego 2018





# Changes for existing VSTS / TFS customers

The same functionality you know and love today, with greater openness, flexibility and focus

### **Existing Accounts**

- Existing https://contoso.visualstudio.com URL continues to work. https://dev.azure.com/contoso available for opt-in.
- New UI opt-in per user as preview feature. Will start advertising new UI once feedback from new accounts and early adopters has been incorporated.
- Can disable services on a per project basis for new UI
- New Azure branding in communications and documentation (emails, alerts etc).
- Websites and documentation will move from Visual Studio to Azure based locations (with redirects in place).
- Redirects available for some time.
- TFS will remain the on-premises brand until the next major version in 2019. The new UI will be enabled in that release.
- Existing TFS branded information and downloads remain in Visual Studio locations until next release.

### Pricing

- Public project usage is now free.
- The free tier for Pipelines now includes 1,800 minutes per month, up from 240.
- Pipelines can be used independently from Repos so if you are only using Pipelines and your repos are hosted on GitHub you don't need to pay for Repos or Boards (Basic) users

### **New Accounts**

- https://dev.azure.com/contoso based URL.
- New navigation & branding by default.

# Migrating from TFS to Azure DevOps

Move from Team Foundation Server to Azure DevOps and bring your data along

### **Benefits of Cloud Hosted Azure DevOps Services**

- Global availability
- Hosted and maintained by Microsoft with 99.9% uptime guarantee and 24x7 support
- Immediate access to latest features
- Simplified deployment to Azure

### **TFS Import Service**

- Fully supported high fidelity migration path
- Trusted by many large enterprises
- Now faster and easier to use









**Azure Boards** 



**Azure Repos** 



**Azure Test Plans** 





Plan smarter, collaborate better, and ship faster with a set of modern dev services



Any developer, any platform, any cloud. Full support for hybrid cloud, on-premises & containers.



Use all the Azure DevOps services or choose just what you need to complement your existing workflows



Best in class builds for open source. Free unlimited build minutes for public projects and up to 10 free concurrent jobs across Windows, Linux and macOS



Get started for free for small teams, scales to support the largest enterprises

Start free today



https://azure.com/devops

# **Azure DevOps Services Pricing**

### **Open Source Projects**

### Free

Unlimited users and build time

- Azure Pipelines: 10 parallel jobs with unlimited minutes for CI/CD
- Azure Boards: Work item tracking and Kanban boards
- Azure Repos: Unlimited public Git repos

### **Small Teams**

### Free

Start free with up to 5 users

- Azure Pipelines: Run 1 Microsoft-hosted job for 1,800 minutes per month and 1 self-hosted job for any amount of time
- Azure Boards: Work item tracking and Kanban boards
- Azure Repos: Unlimited public Git repos
- Azure Artifacts: package management
- · Unlimited stakeholders

### Teams of any size

# Starts at \$6

per user, per month for Boards & Repos\*

Easy pricing that grows with your team

- Azure Pipelines: Run 1 Microsoft-hosted job for 1,800 minutes per month and 1 self-hosted job for any amount of time
- Azure Boards: Work item tracking and Kanban boards
- Azure Repos: Unlimited public Git repos
- Azure Artifacts: package management
- · Unlimited stakeholders
- Boards & Repos included for Visual Studio subscribers

https://azure.com/pricing/details/devops/

\* 5 Boards & Repos users and 5 Artifacts users free. Pipelines with unlimited minutes, Test Plans users and additional Artifacts users also available. Please see the Azure pricing calculator for details.



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