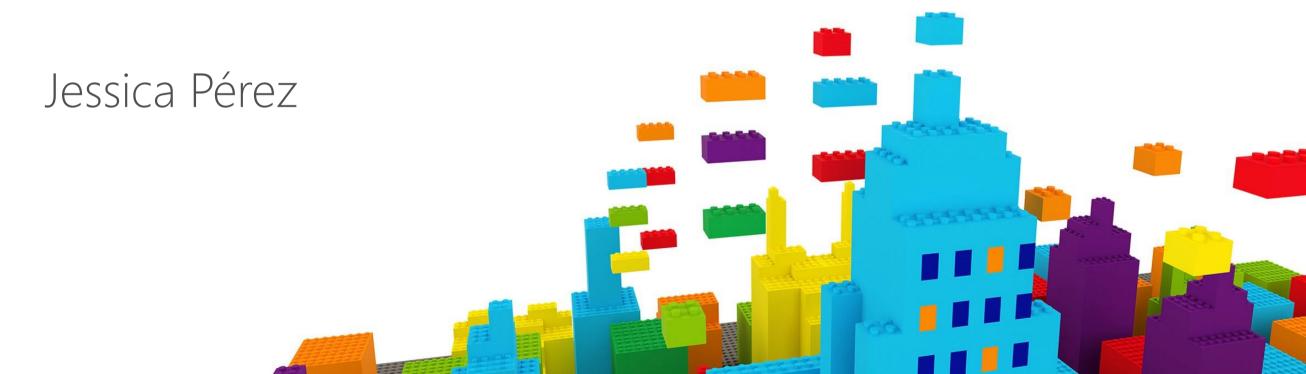
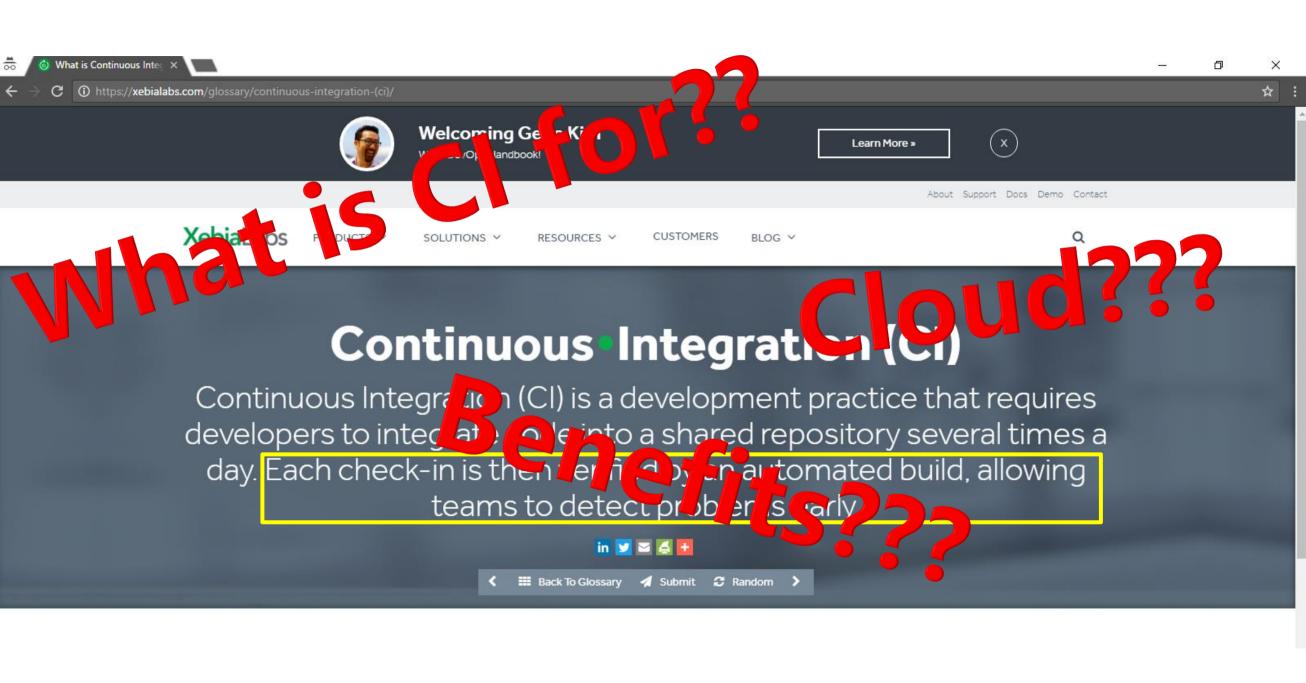


Enabling Continuous Integration on Azure





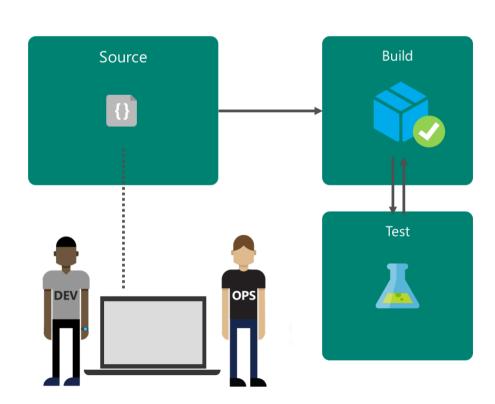
Have in mind

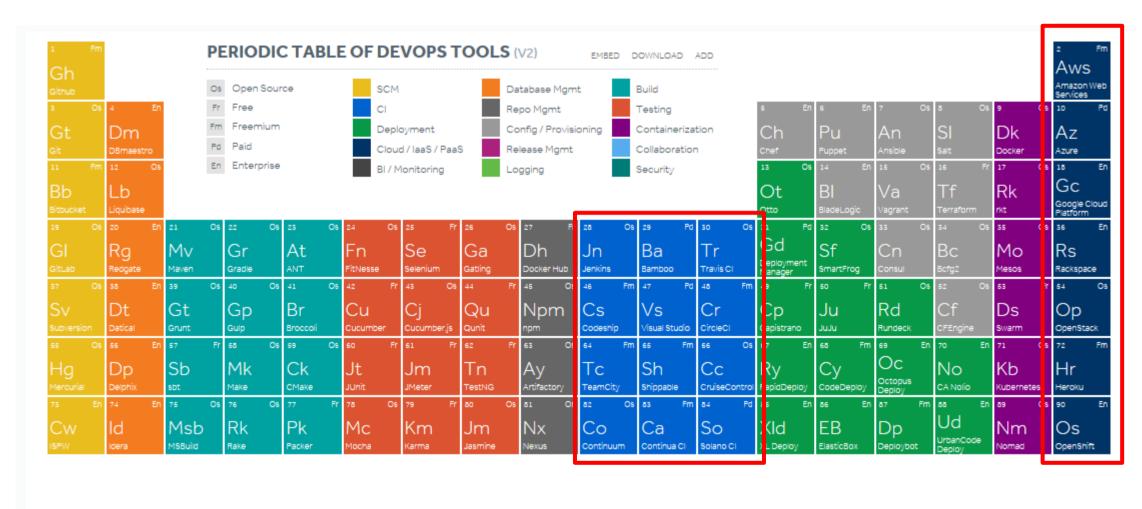
- Infrastructure as Code (IaC)
- Continuous Integration
- Automated Testing
- Continuous Deployment
- Release Management
- App Performance Monitoring
- Load Testing & Auto-Scale

- Availability Monitoring
- Change/Configuration Management
- Feature Flags
- Automated Environment De-Provisioning
- Self Service Environments
- Automated Recovery (Rollback & Roll-Forward)
- Hypothesis Driven Development
 - Testing in Production
 - Fault Injection
 - Usage Monitoring/User Telemetry

Continuous Integration + Cloud

- Define the tools
- Define goals
- Define measurements
- Architecture Decisions







91	En	92 En	93 En	94 E	n 95	En	96	En	97	En	98 PC	99	Fm	ı	100 Pd	10	ı Fn	n	102 Fm	١	103 Fm	n :	104 Pd	1 1	.05	ĒΠ
XIr		Ur	Bm	Нр	Αι		PI		Sr		Tfs	Т		I,	Jr	R	df .		SI		Fd		Pv	5	Sn	
(L Release	se Release		BMC Release Process	HP Codar	Auto	mic	Plutora Release		Serena Release		Team Foundation	Trei	Trello		Jira	Hí	HipChat		Slack		Flowdock		Pivotal Tracker		ServiceNow	
106	Os	107 Fm	108 En	109 0)S 110	Os	111	En	112	Os	113 Fm	114	En		115 Fm	11	6 Fin	n	117 Os	1	118 Os	9	119 Os	9 1	20	En
Ki		Nr	Dt	Ni	ZŁ)	Dd		EI		Ad	S		l	Le	S	il .		Ls	ŀ	Sn	ŀ	Tr	F	f	
Cibana		New Relic	Dynatrace	Nagios	Zabb	ix	Datadog		Elasticseard	ch	AppDynamics	Splu	nk	L	Logentries	Su	mo Logic		Logstash	5	Snort	1	Tripwire	F	ortify	

CI tools











































Azure cloud

DevOps





















Management





















Applications



















App Frameworks & Tools



nodeJS











Databases & Middleware

















Infrastructure



















Architecture Decisions



Most control, but most management overhead

Most cost

Puppet/Chef/DSC agent integration

Easier to port workloads from on-premises



Containers

Easiest portability from on-premises

Ecosystem of apps

Host OS abstracted, but still requires management



Azure Cloud Services (PaaS)

Startup tasks

More complex workloads

Do more than websites

APM compatible



Azure Websites (PaaS)

Easy CI and CD setup

Easy Auto Recovery

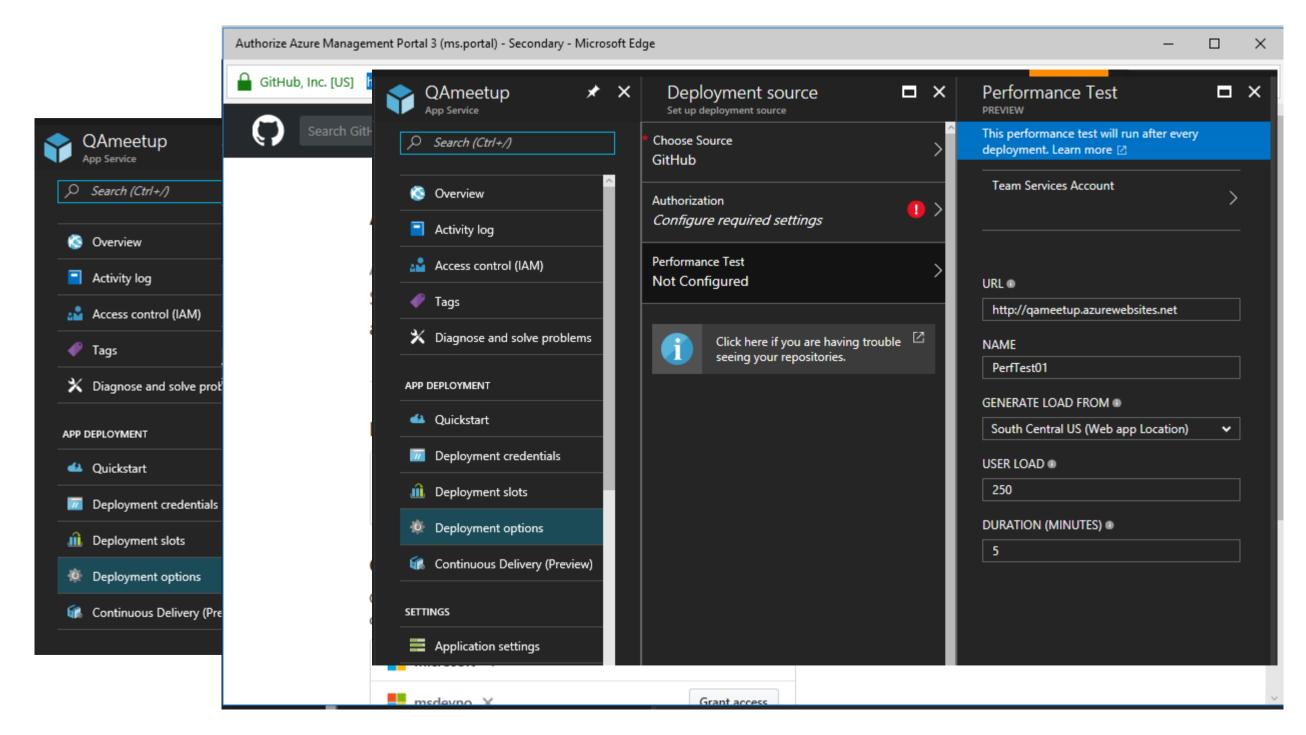
Easy Testing in Prod

Easy deployments and scale

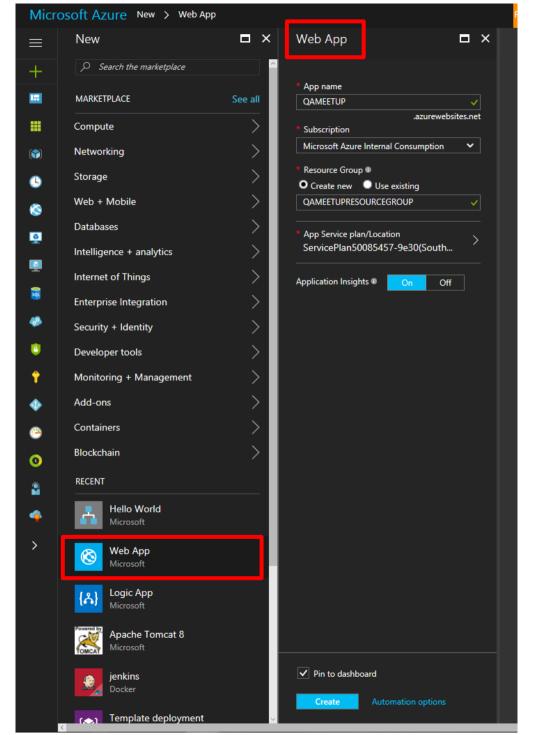
Efficient Cost

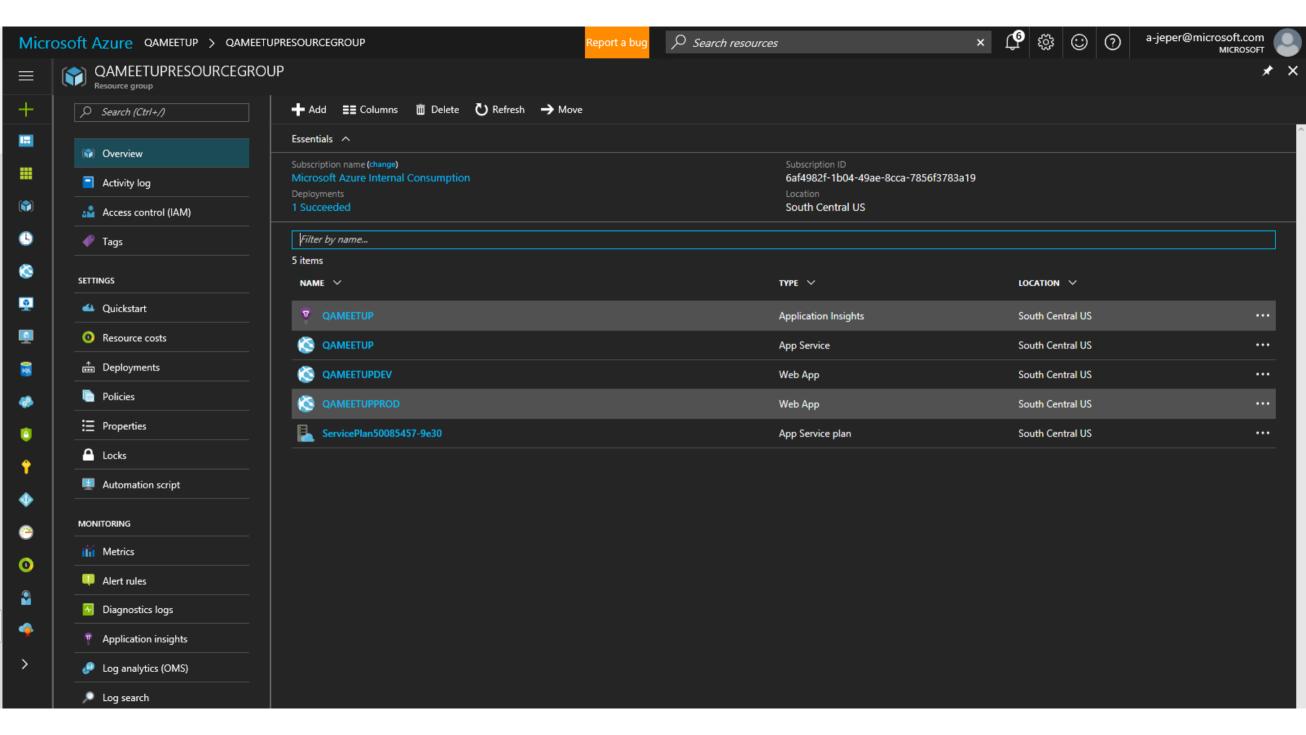
Only websites

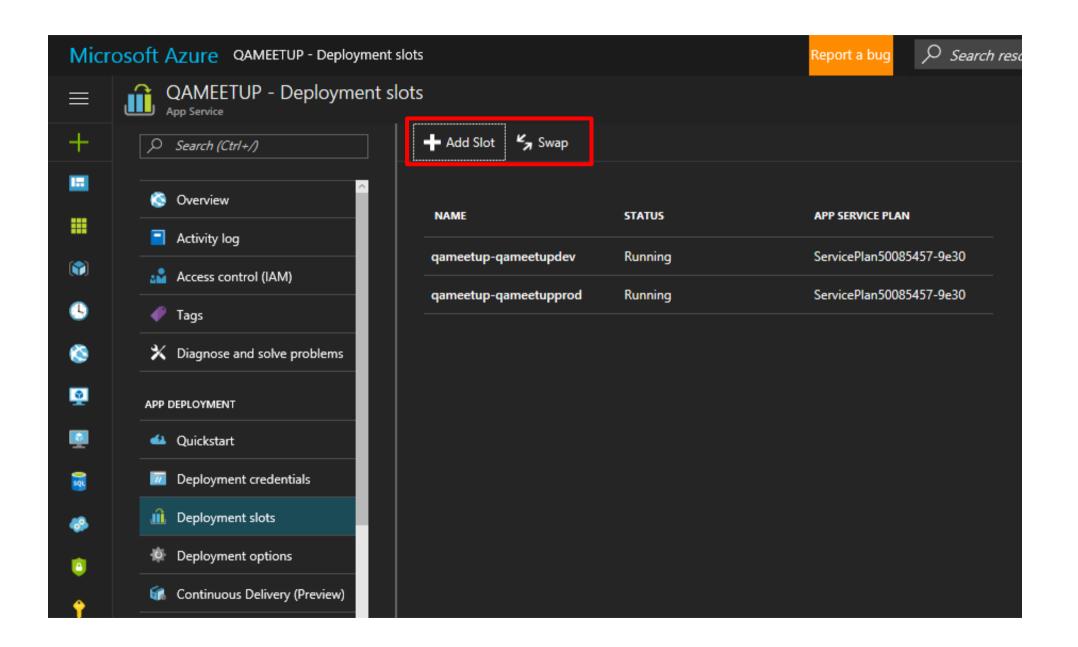
Configure Cl repos on Azure

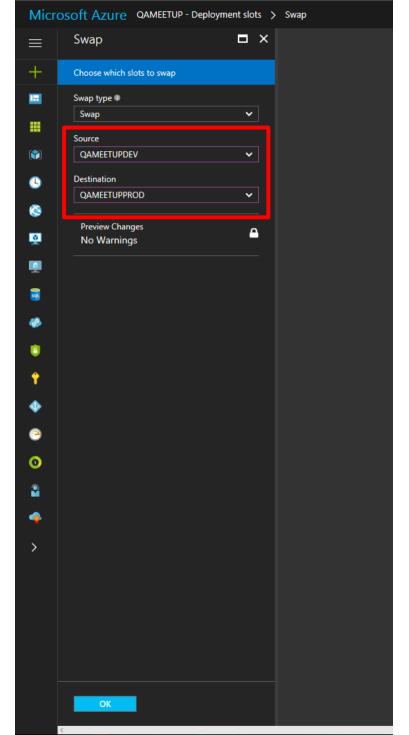


Deployment Slots on Azure



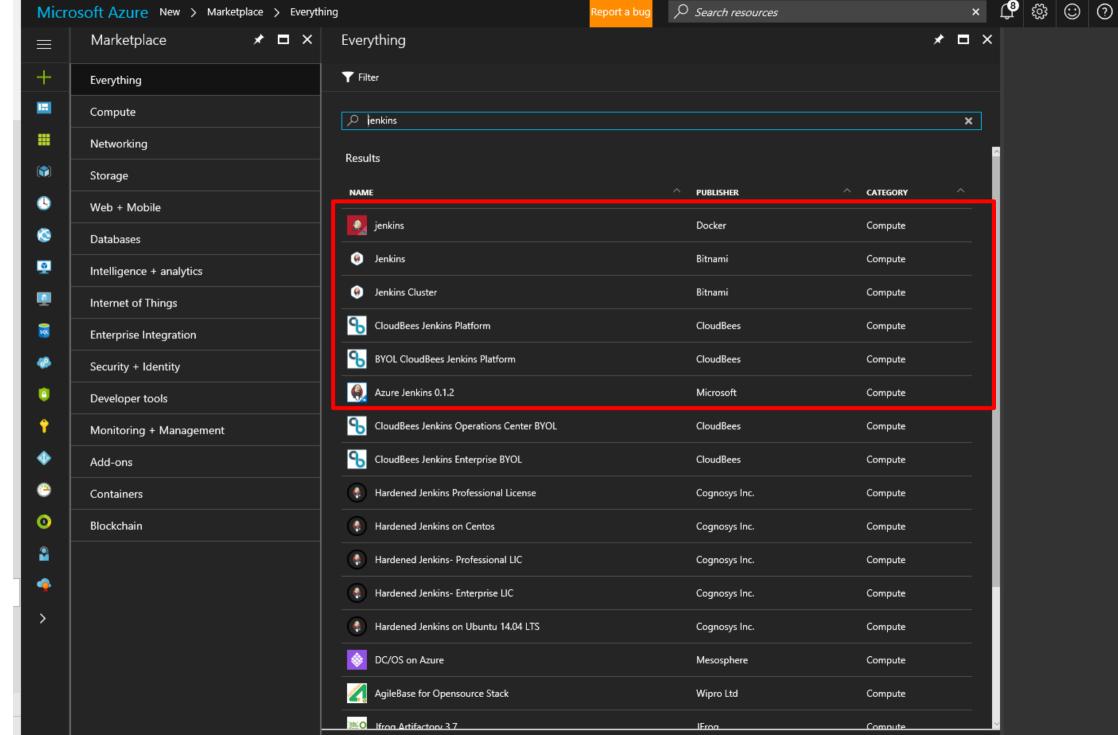




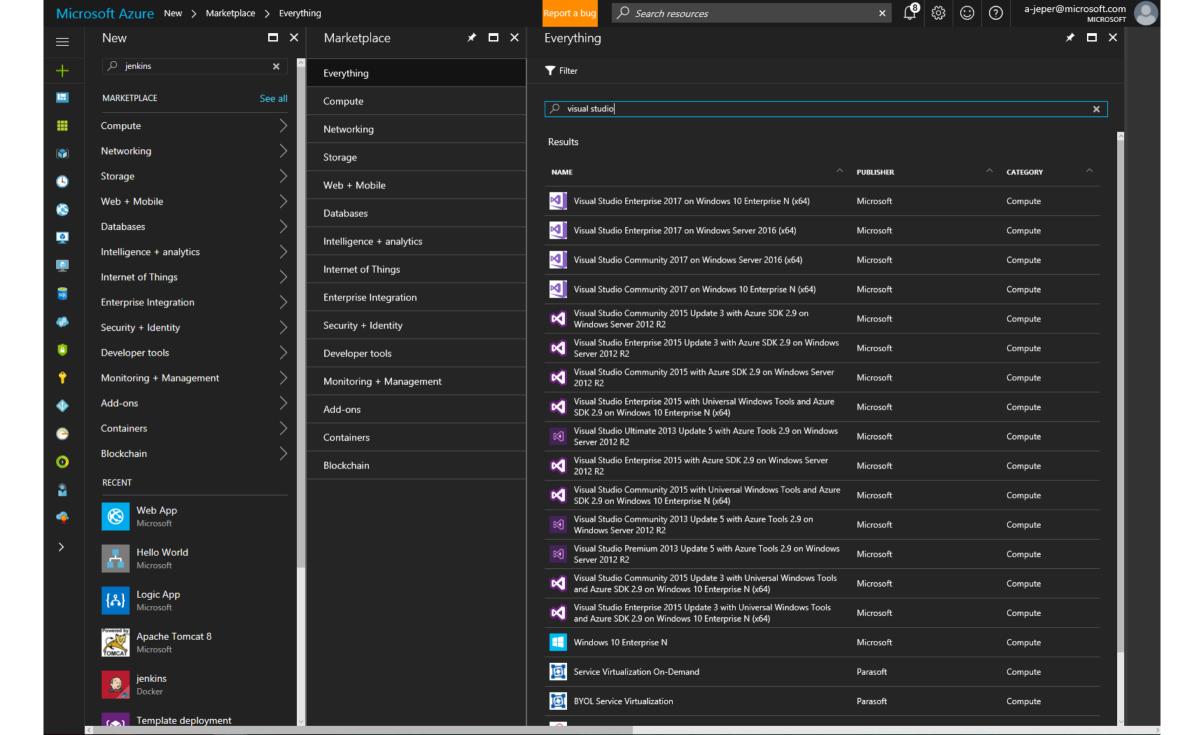


- General settings
- App settings
- Connection strings
- Handler mappings
- Monitoring and diagnostic settings
- Web job content

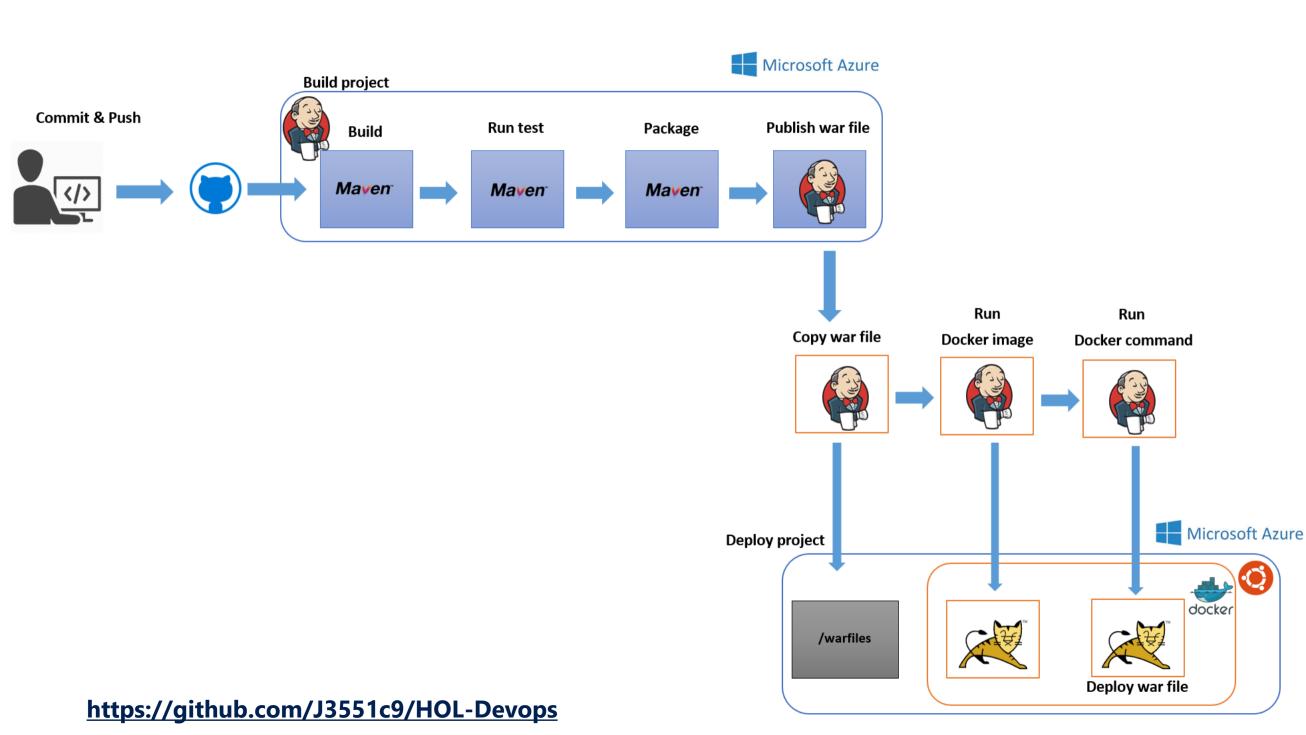
Deploy CI tools on Azure



a-jeper@microsoft.com міскоsоғт



HOL



Thank you

Jessica Pérez





