Azure Pipelines

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 community-built 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
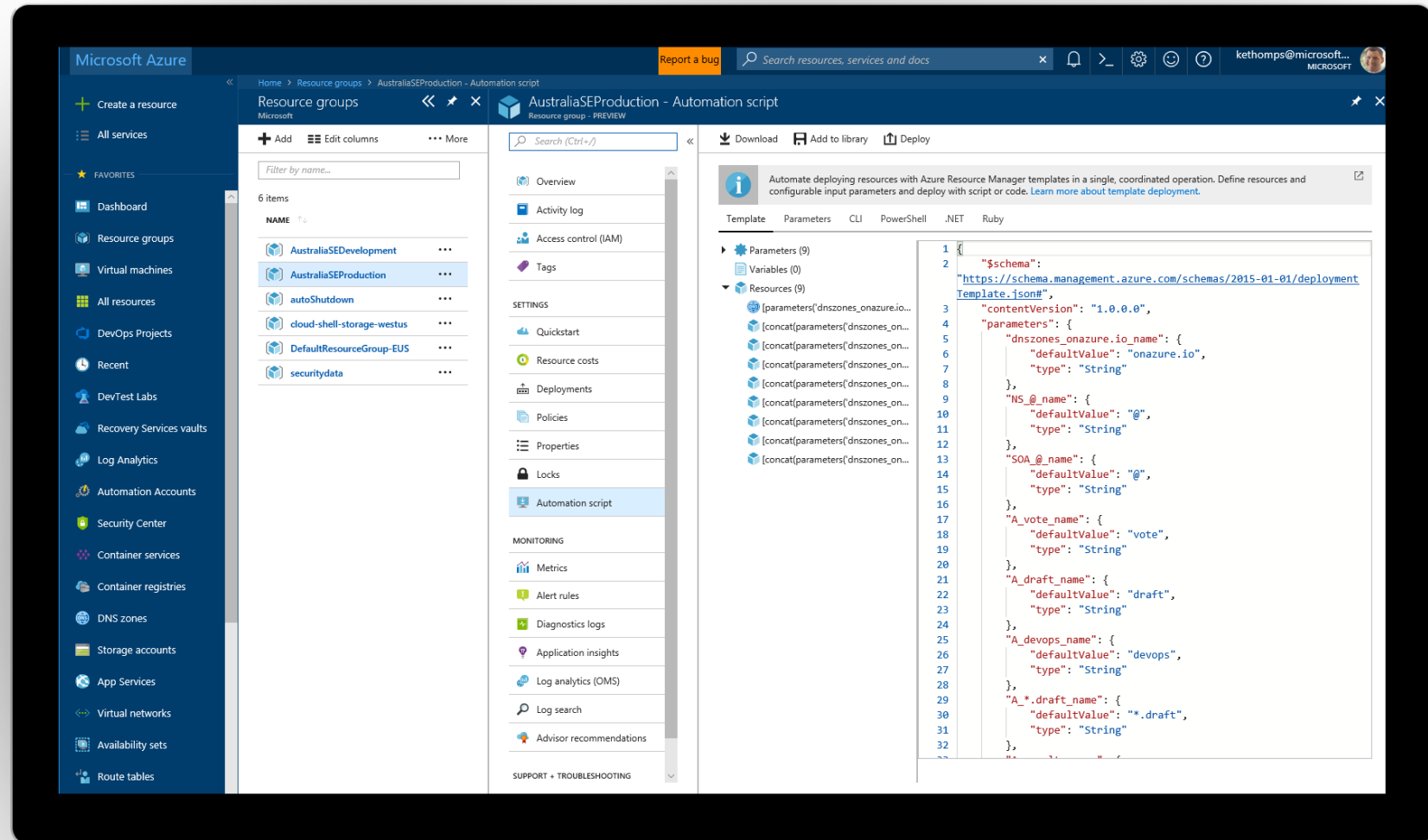

https://azure.com/pipelines
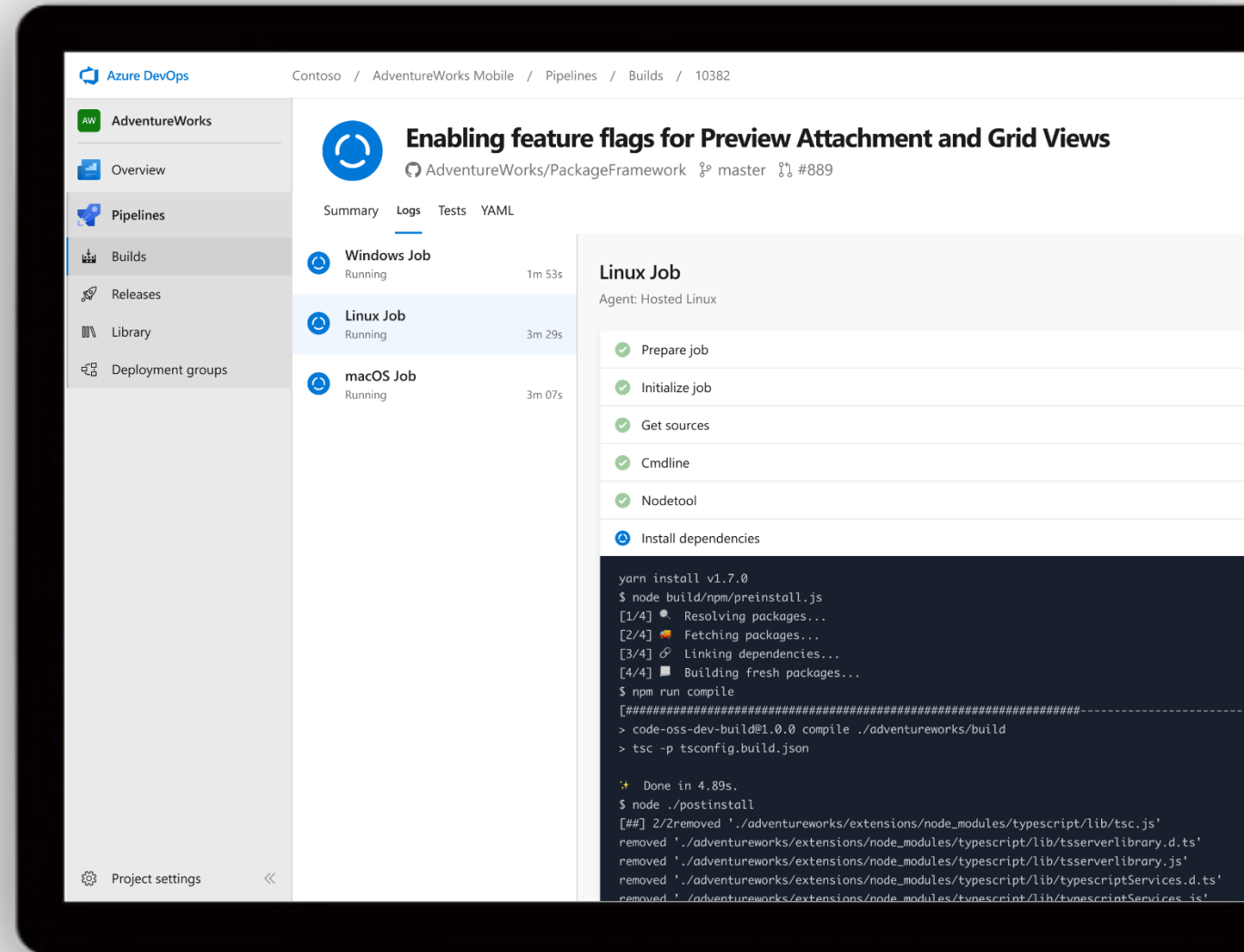
Deploy Repeatedly & Reliably

Azure Resource Manager, Automation & 3rd Party Integrations

→ Infrastructure as Code, built-in with Azure Resource Manager

→ Azure Config & Automation to automate repetitive tasks

→ Support for 3rd party and OSS tooling such as Terraform, Ansible, Chef, Puppet & SaltStack

DevOps for Databases

Infrastructure as code

Difference with Traditional Mindset

- Infrastructure as Code
  - Declarative vs Imperative
  - Abstractions over Implementations

Infrastructure as Code

- Treat Infrastructure as Code
  - Continuous Integration
  - Automated Tests
  - Refactoring

Version control enables peer review and change tracking

Infrastructure As Code

- Ecosystem of Tools
  - Linting
  - Unit Testing
  - Integration Testings

Infrastructure as Code Tools for Azure

Environment Management

- Azure Resource Manager (ARM) Templates
- Terraform
- Ansible

Operating System Management

- PowerShell Desired State Configuration (DSC)
- Chef
- Puppet
- Ansible
- SaltStack

Container Management

- Kubernetes
- Docker
- Helm
- Draft

Azure DevOps

- Ultimate DevOps solution into Azure
- Fully integrated with industry standard tools for Infrastructure as Code and Azure

Demo

Break – 15 min

Thank you!