Azure Web Apps

Azure App Service Family





Web Apps
Web apps that scale
with your business



Mobile Apps
Build mobile apps for
any device



Logic Apps
Automate business
processes across SaaS
and on-premises



API Apps
Build and consume APIs
in the cloud

Azure Web Apps

- Support a variety of languages and platforms
 - .NET, Java, Node.js, PHP, Python, and more
- Support scaling (manual or auto) and load balancing
- Support slots for staged deployments and A/B testing
- Support continuous integration

Familiar and Fast

Leverage existing skills, plus languages, frameworks, and tools you're familiar with

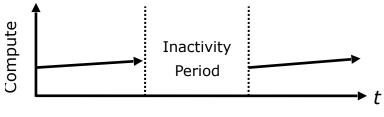
Enterprise Grade

ISO-, SOC2-, and PCOcompliant with enterpriselevel SLAs

Global Scale

Scale up and down as needed, manually or automatically

Scaling - Cloud Computing Patterns



On and Off

On & off workloads (e.g. batch job) Over provisioned capacity is wasted Time to market can be cumbersome

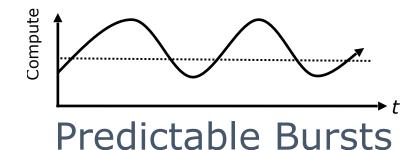


Successful services needs to grow/scale Keeping up w/ growth is big IT challenge Cannot provision hardware fast enough



Unpredictable Bursts

Unexpected/unplanned peak in demand
Sudden spike impacts performance
Can't over provision for extreme cases



Services with micro seasonality trends Peaks due to periodic increased demand IT complexity and wasted capacity

Scaling Up vs. Scaling Out

Scale Up







Vary the VM size

1 Core w/ 1.75 GB RAM 2 Cores w/ 3.5 GB RAM 4 Cores w/ 7 GB RAM

Scale Out























Vary the VM count

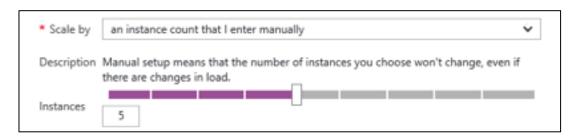
Max 3* instances Max 10 instances Max 20/50** instances

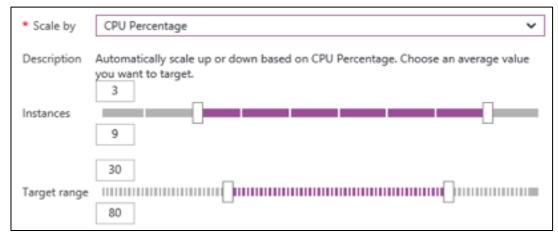
Manual Scaling vs. Auto-Scaling

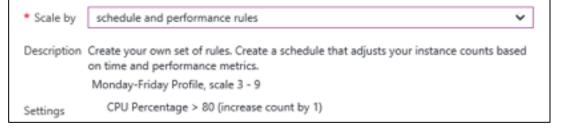
Manual – Scale via portal or scripts

Auto – CPU Percentage

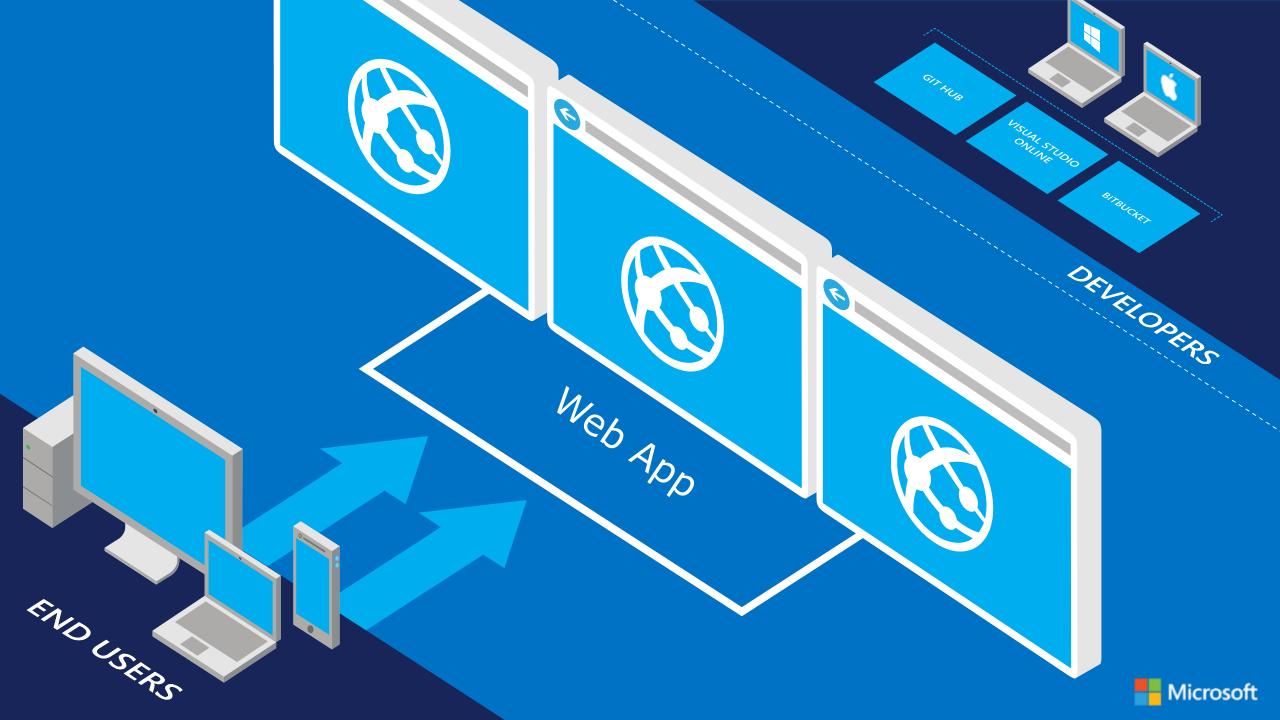
Auto – Schedule & Performance Rules

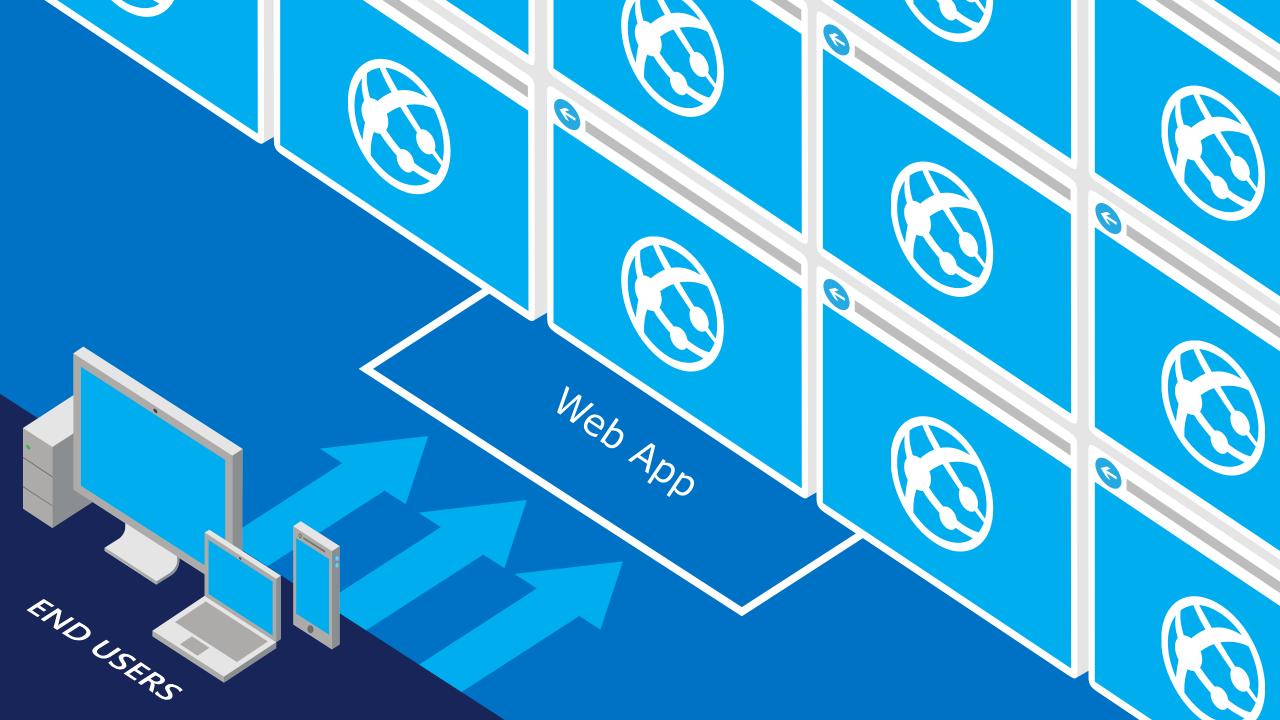






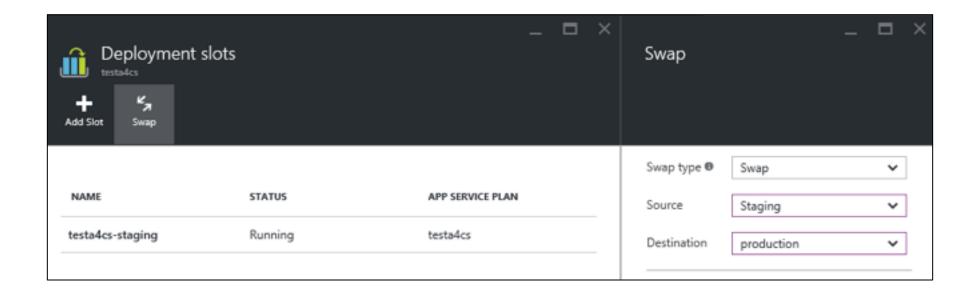






Deployment Slots

- Use a Deploy-Confirm-Promote workflow
 - Promote via "swap" through Azure portal
- http://sitename-slotname.azurewebsites.net

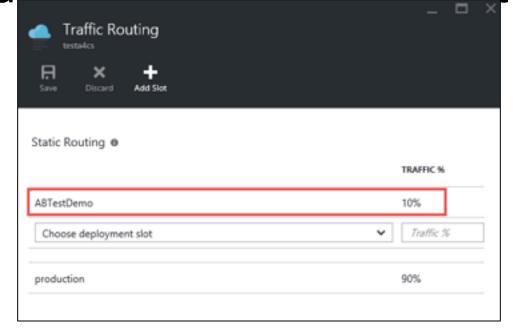


A/B Testing

 Test changes by routing requests to different deployment slots

Use Traffic Routing to direct % of traffic to alternate

slots



Continuous Integration

- Web apps can be deployed manually via FTP or WebDeploy
- Automate deployment using 3rd party source-control providers

Can also use a local Git repository from Azure Portal









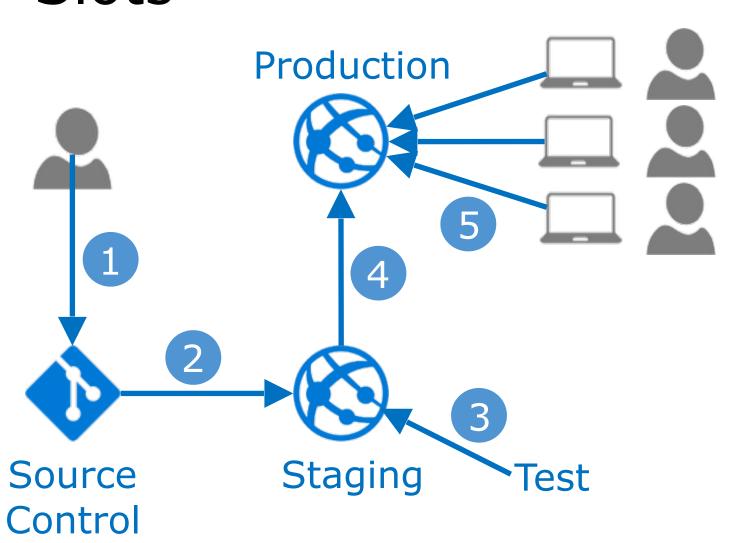




Git

Visual StudioCodePlex GitHub BitBucket DropBox Team Services

Continuous Integration + Deployment Slots



- 1. Developer commits code
- Automated process builds/ compiles and deploys to staging slot
- 3. Automated and other tests validate content in staging slot
- 4. Staging content promoted to production
- 5. Users see updated site