

Testing Our Global Application



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Introduction



What to test

Performance tests

Testing in production



What Are We Going to Test?



Internationalcookies.eu



ASP.NET Core



HTTPS



Azure Web App



CDN



Azure Redis Cache



Azure SQL



Azure Active Directory



Logic App



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ASP.NET Core



HTTPS



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Logic App



What to Test?

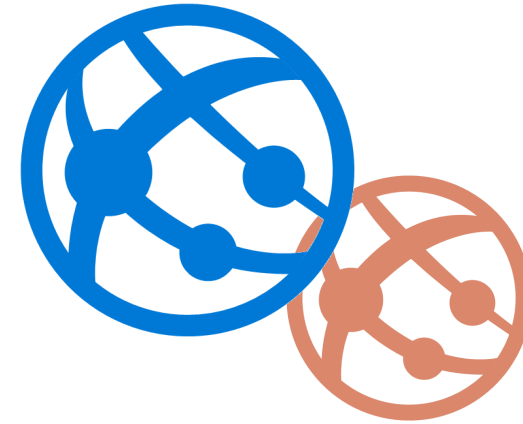
Performance test



Verify availability and performance

Many users
Different functionality
Different locations

Testing in production



Verify (new) functionality

See how users use new functions in
production



Performance Testing the Application





Performance Testing

Load testing

- Expected load
- Test behavior
- Capacity planning

Stress testing

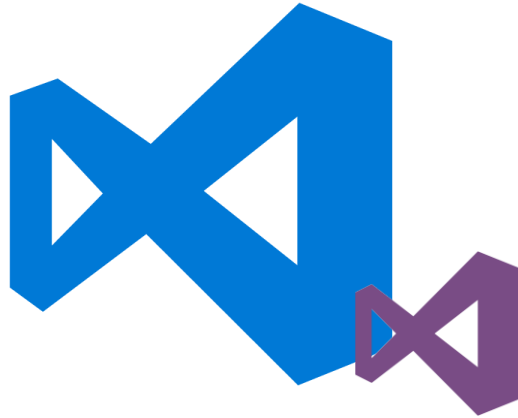
- Extreme load
- Test behavior
- Test the limits of the application

Volume Testing

- Large amounts of data
- Test behavior
- Capacity planning

Options for Performance Testing

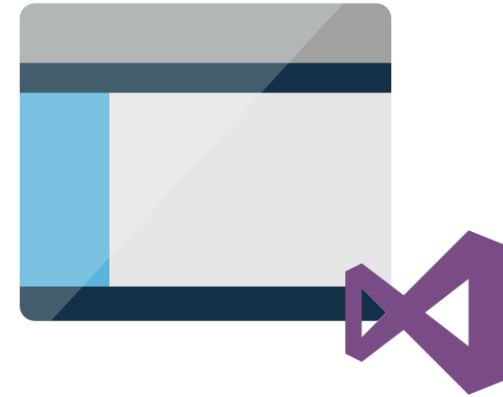
Visual Studio + VSTS



Full performance testing

Author tests in Visual Studio
You need Visual Studio Enterprise
Run tests in the cloud using VSTS

Azure Portal + VSTS



Simple performance testing

Author tests in Azure Portal or VSTS
Run tests in the cloud using VSTS



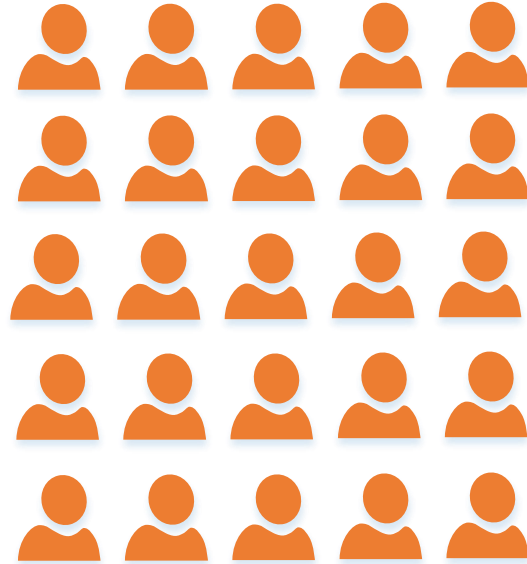
How Does Performance Testing Work?



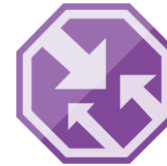
Test



Visual Studio Team Services



Resources



internationalcookies.eu



WE



Demo



Performance testing with Visual Studio

Run with Azure resources



Testing in Production



Why Use Deployment Slots?

Confirm in pre-production

Test in production

Deploy with no downtime

Revert deployments



Azure Web App



Deployment Slot



About Deployment Slots



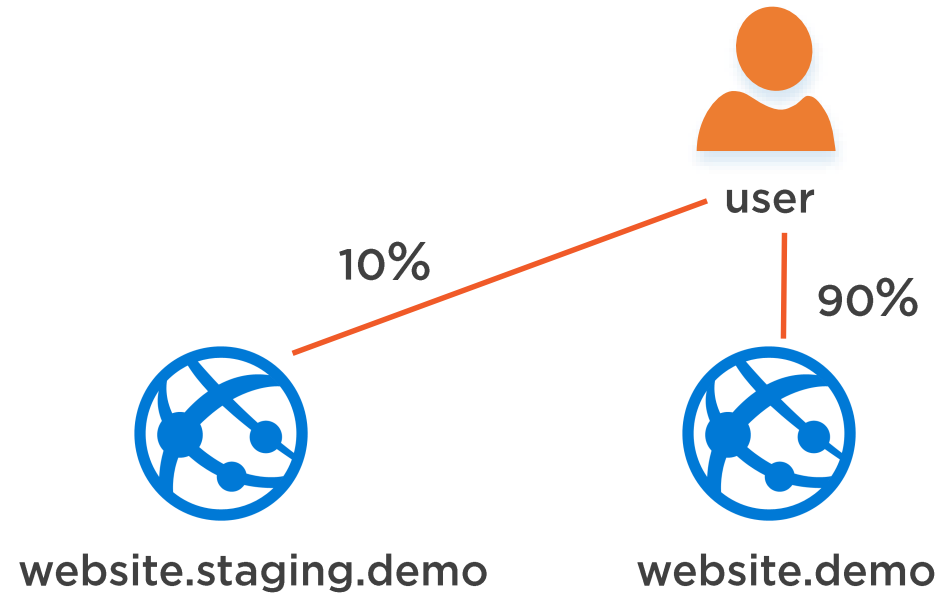
A deployment slot is a full Web App

Scaling is only possible in production slot

Swapping swaps the VIP



What Is Testing in Production?



Demo



Setting up a deployment slot

Route traffic to the slot



Summary



Performance test

- Visual Studio Enterprise
 - Web performance tests
 - Load tests
- Visual Studio Team Services (VSTS)

Testing in production

- Deployment slots
- Static routes

