

Automated and Manual Testing with Azure Test Plans



Learn.
Connect.
Explore.

Building Quality

Types of Tests

- Unit Tests
- Integration Tests
- Usability Tests
- Accessibility Tests
- Functional Acceptance Tests
- UI Automation Tests
- Performance Tests
- Load Tests
- Stress Tests (volume and/or longevity)
- System Tests
- User Acceptance Tests
- End-to-End Tests

Key Point: Test Coverage

Features

- Manual Testing
- Automated Testing
- Load Testing
- Pipeline Support
- Backlog Support

Azure Test Plans

Demo



Continuous DevOps Testing

Manual

UI with Selenium

Performance & Load

Demo



Microsoft Testing Tools



Test Manager Manual Testing Tools

- Test Plan Management
- Test Case Management
- Shared Steps Management
- Exploratory Testing
- Test Configuration Management
- Test Fast Forwarding
- Test Data Collection
- Test Lab Management

Visual Studio Automated Testing Tools

- Coded UI Tests
- Selenium Tests
- Web Performance Tests
- Cloud Load Tests
- Generic Tests
- Ordered Tests
- Developer Unit Tests
- Database Unit Tests

Test Run Hub

- Results for all test runs
- Results for all individual tests
- Shared Parameters Management
- Visualizations with charts and graphs
- Analyze test run outcome
- File bugs and update test status



Cloud Based Load Tests

➔ Cloud load testing

Performance test your code with hundreds of thousands of users

Author load tests from Visual Studio then use the cloud for the right load mix

Configuration options include number of virtual users, browser distribution and more

➔ Test from where your users are

Run tests from one of many global Azure datacenter locations to minimize latency and simulate users' real-world conditions

✓ Home Page Access.loadtest (Run ID: 163) - Completed

Completed less than a minute ago, 6/17/2015 9:13:54 AM

☒ Email test report

Requested URL	http://www.teamssystemcafe.net/
Load duration	60 seconds
User load	200
Load location	East US 2
Start time	6/17/2015 9:11:50 AM

Application performance

AVG. RESPONSE TIME

2.87 sec

🗨 Your app's response time is not good

TOTAL REQUESTS

7733



<input checked="" type="checkbox"/> Counter	Units	Range	Min
<input checked="" type="checkbox"/> Tests/Sec	-	10	0
<input checked="" type="checkbox"/> Pages/Sec	-	100	0
<input checked="" type="checkbox"/> Requests/Sec	-	1000	0
<input checked="" type="checkbox"/> Errors/Sec	-	100	0
<input checked="" type="checkbox"/> User Load	users	1000	2



Demo



Break – 15 min

Thank you!