



# SYNERGY 2015

SEATTLE, WA, USA

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## Web Application Load Testing

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# Server Overview

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- Studio
  - Testing and demonstration
- Servers
  - Lite
    - Single server, one application running one process
  - Application
    - Per application licensing, can act as slave in multi-server configurations
  - Web Clients
    - Per user licensing (can be spread over multiple applications), can act as slave in multi-server configurations
  - SPLF
    - Specify Application or Web Clients (match with the slaves being used), can act as slave in multi-server configurations

# Deployment Scenarios

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- Single Server
  - Great for development, testing and demonstration
  - Also great for basic deployments
  - A bit iffy if using SQL (processing load of IIS, WebApp and SQL might stress the system)
- Single Server with SQL on separate server
  - Moves SQL processing load to dedicated resource
  - SQL server can be inside firewall
- Two Server with SPLF
  - IIS server and web components outside firewall
  - WebApp processes and data inside firewall
  - Better if using SQL (may still have separate SQL server)
- Multiple Servers with SPLF
  - Adds multiple servers to handle WebApp processes

# Cloud Servers as Hosts

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- Cloud computing is playing an increasingly important role
- We use AWS for development testing
  - Just like virtual machines, cloud instances revolutionize what you can do before you even get to the customer site
  - We have whatever configurations we need, whenever we need them, for as long as we need them
- I'm going to use AWS to facilitate this demonstration
- I'll also use LoadUIWeb to help you see how to assess and tune performance
  
- Demo...
  - It's all in the Process Pool
  - Recording LoadUIWeb Scripts

# SmartBear

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- There are many load testing tools out there – LoadUIWeb is a very nice one we started using a few years ago
  - They have changed the name to LoadComplete and the free version is more limited than in the past (50 simulated users)
- SmartBear specializes in testing and performance tools
- They provide a number of free versions of their tools – they have pretty impressive capabilities
  - Including the ability to spin up loads in the cloud