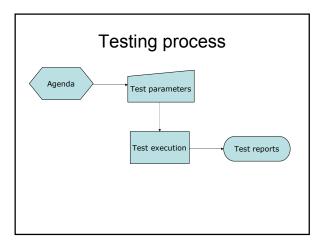
Load testing web applications Kunal Shanishchara kunalhs@umd.edu Agenda • Why load testing is essential? • Review and usage of the load testing tool WebLOAD • Brief overview of Microsoft .Net framework • Review and usage of a .Net code instrumenter ANTS Profiler Questions Why load testing is essential? • Determine the scalability of the website. Measure the Quality of Service parameters of the website. The QoS is measured in terms of 1. Throughput 2. Response time 3. Availability

WebLOAD

- WebLOAD is a load testing tool developed by Radview Software. (<u>www.radview.com</u>)
- WebLOAD verifies the scalability and integrity of Web applications by simulating expected traffic levels.
- It is possible to define target performance parameters and testing options to imitate real-world conditions, such as varying connection speeds, browser types, and browser behaviors.
- Test results are generated at the per-client, pertransaction, and per-instance levels. The test results can be viewed in real time or after the test session is complete.



Demo of WebLOAD™

- How to generate an agenda?
- How to configure the host machines, probing client?
- How to specify the virtual users from each load machines?
- · How to execute the agenda?
- · How to observe the reports?

Questions on WebLOAD™

An introduction to Microsoft.Net framework

 Microsoft.Net framework is an unified application software development platform.



ANTS Profiler™

- ANTS Profiler is a .Net code instrumentor which introduces code instrumentation at the Intermediate Language level.
- It is developed by RedGate software (<u>www.red-gate.com</u>)
- It is possible to profile the .Net application and observe the time taken by each method.
- This helps to identify the bottlenecks in the application.

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How to profile a .Net application?	
How to analyze the results?	
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References	
<u>www.radview.com</u>	
 www.red-gate.com 	
• www.ieee.org	
 http://www.msdn.microsoft.com/ 	
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