

SharePoint Customization Hands-On Troubleshooting

Scenario 3: Temporary performance spikes

Student Lab Manual

Version 1.0

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Lab 1: Troubleshoot performance spikes

Introduction

Contoso is running an Intranet application based on SharePoint 2013. During the first year of operation, the Intranet was performing well. Over time, performance has become worse. During short intervals, the page response time increases severely.

You have been granted permission to run tools in production in order to find what is causing the performance spikes.

Objectives

After this lab, you will be able to:

- Find performance issues in an live production environment
- Evaluate option for fixing performance issues

Estimated time to complete this lab

45 minutes to complete tasks, 15 minutes discussion.

Scenario resources

On machine **SPAPP01** you can find the WSP packages for the scenario. They are located in the folder **C:\Student\Scenario03**.

Troubleshooting tools can be found in the folder **C:\Tools**.

Tasks

By leveraging demonstrated troubleshooting tools, you should complete the following steps as part of this troubleshooting scenario:

1. Find what is causing the performance problems. To answer this question you should provide the following:
 - a. Assembly name
 - b. Class
 - c. Member
2. Provide proof that the suggested piece of code is causing the performance problem.
3. What options do the developers have that could fix the problem?

Steps to get started

Follow the steps below to get started with the scenario:

1. Log into the machine **SPAPP01**.
2. Open the load test located under **C:\Student\Scenario03**
3. Run the load test, and let it complete its warm up for 2 minutes.
4. While the load test is running, log in to **SPAPP02**. Open Internet Explorer and open the page at the URL <http://scenario03.contoso.com/>. Refresh the page every few seconds for up to 1-2 minutes in order to see the performance problem manifest itself.

5. Go ahead with the troubleshooting tasks.