Exercise instructions

Preface

- Access your lab image by using the instructions that your instructor provides.

Note

Substitution values

Use the following substitution values when you encounter them in the exercise instructions.

`<wps_home>` is `/opt/IBM/WebSphere/PortalServer`

`<was_home>` is `/opt/IBM/WebSphere/AppServer`

`<wp_profile>` is `/opt/IBM/WebSphere/wp_profile`

Section 1: Enabling site analysis logging

Site analysis logging is not enabled by default. To enable site analysis logging, you must specify the names and locations of the log files as values for the parameters in the `WP SiteAnalyzerLogService`. You enable the site analyzer logger for standard portlets by using the portal configuration service *SiteAnalyzerLogService*. You set its property in the administrative console through the resource environment provider `WP SiteAnalyzerLogService`.

Enable site analysis logging by completing the following steps.

__ 1. Log in to the WebSphere Integrated Solutions Console (ISC).

   __ a. Open a web browser window and enter the following address:
      `http://portal00:10038/ibm/console`

   __ b. Log in with user ID `wpsadmin` and password `IBMp0rtal`.

__ 2. In the left navigation pane, click **Resources > Resource Environment > Resource Environment Providers**.

__ 3. From the scope menu, select **Node=portal00Node, Server=WebSphere_Portal.**

__ 4. From the resource list, go to the last page, and click **WP SiteAnalyzerLogService** .
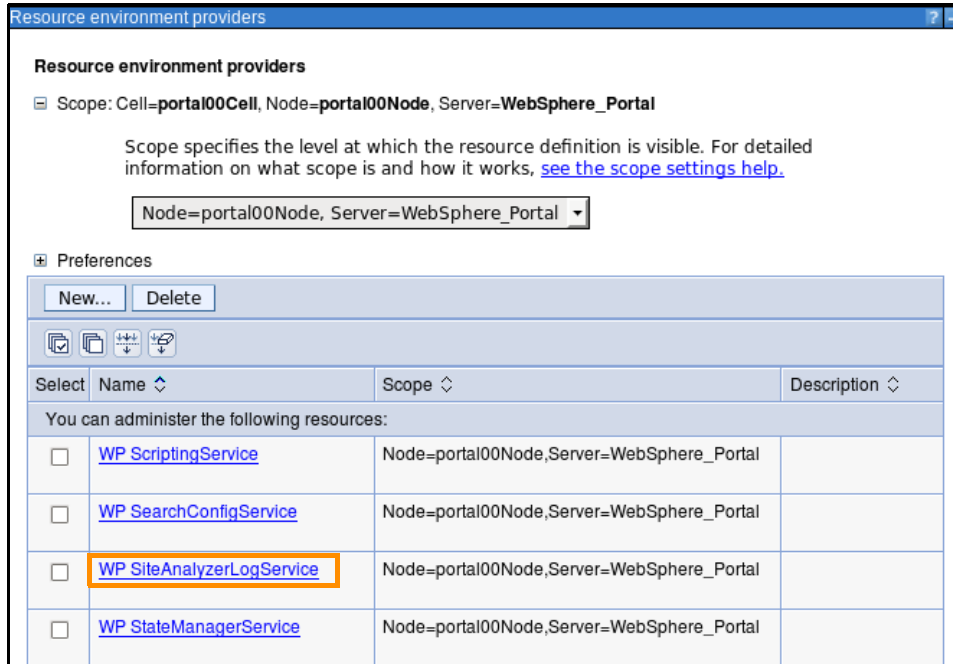
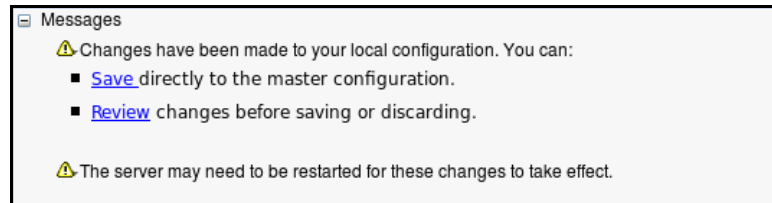__ 5. In WP SiteAnalyzerLogService, click **Custom properties**.
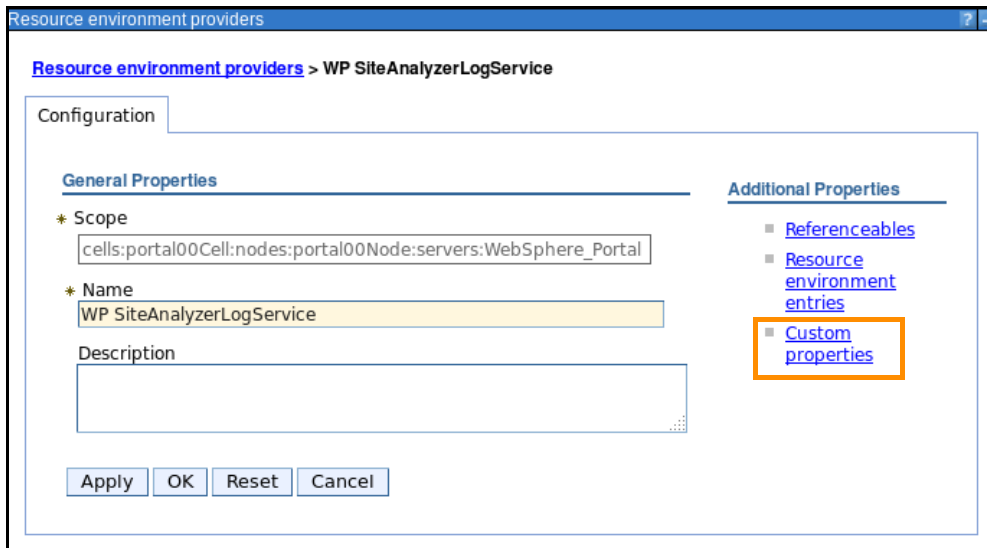
__ 6. In Custom properties pane, scroll down and click the
SiteAnalyzerJSRPortletLogger.isLogging property

__ 7. Change the value of the property to **true**. Then, click **OK**.

__ 8. Verify that the value is now set to true.

☐	SiteAnalyzerJSRPortletLogger.isLogging	true	Default: false	false
Total 14				

__ 9. In the Messages window, click **Save**.

```
☐ Messages
    ⚠ Changes have been made to your local configuration. You can:
        ▪ Save directly to the master configuration.
        ▪ Review changes before saving or discarding.

    ⚠ The server may need to be restarted for these changes to take effect.
```

__ 10. Log out of the WebSphere Integrated Solutions Console by clicking **Logout**.

Section 2: Review the site analyzer log

__ 1. Restart the WebSphere Portal Server to apply the changes.

  __ a. Open a terminal window and change directories to `<wp_profile>/bin`.

  __ b. Enter the following command: `./stopServer.sh WebSphere_Portal -user wpsadmin -password IBMp0rtal`

  __ c. Wait for the server to stop. Then, enter the following command: `./startServer.sh WebSphere_Portal`

__ 2. Log in to WebSphere Portal.

  __ a. Start a web browser and enter the following address: `http://portal00:10039/wps/portal`

  __ b. Enter `wpsadmin` for the user ID and `IBMp0rtal` for the password and click **Log in**

__ 3. Access several different pages in the portal such as the Welcome page and the Lab page to generate some data for the site analyzer log.

__ 4. View the site analyzer log file.

  __ a. Open a terminal window, and change directory to `<wp_profile>/logs/WebSphere_Portal`.

```
root@portal00:/opt/IBM/WebSphere/wp_profile/logs/WebSphere_Portal   _ □ ×
 File  Edit  View  Search  Terminal  Help
[root@portal00 WebSphere_Portal]# ls -l
total 5132
-rw-r--r--. 1 root root  117732 Dec  8 12:01 native_stderr.log
-rw-r--r--. 1 root root   11984 Dec  8 12:01 native_stdout.log
-rw-r--r--. 1 root root    2594 Dec  8 12:07 sa.log
-rw-r--r--. 1 root root   12610 Dec  8 12:05 startServer.log
-rw-r--r--. 1 root root   10384 Dec  8 12:00 stopServer.log
-rw-r--r--. 1 root root   20828 Dec  8 10:42 SystemErr.log
-rw-r--r--. 1 root root      42 Dec  1 12:18 SystemErr.log.owner
-rw-r--r--. 1 root root 2584492 Dec  8 12:59 SystemOut.log
-rw-r--r--. 1 root root      42 Dec  1 12:18 SystemOut.log.owner
```

__ 5. Open the `sa.log` file with a text editor by typing: `gedit sa.log`.

Information

The sa.log file

The current (active) log file is named `sa.log`. The `sa_yy_mm_dd_timestamp.log` files are the backup that is based on the time setting.

The site analysis log uses the NCSA Combined log format, which is a combination of the NCSA Common log format and three extra fields: the **referrer** field, the **user_agent** field, and the **cookie** field

Example

Site analysis log

```
portal00 - wpsadmin [08/Dec/2014:12:07:32 -0500] "GET /Portletportal00 -
wpsadmin [08/Dec/2014:12:07:32 -0500] "GET
/Portlet/Z5_4IK0GC42KG7B40AINOIHFQ00E1/Web_Content_Viewer_(JSR_286)/blog%2Fblog%
2Fhome%2F95c189804d4268bf8d49ede9170f1e3d?PortletPID=Z5_4IK0GC42KG7B40AINOIHFQ00
E1&PortletMode=view&PortletState=normal&RequestType=render&HELP_MODE=false&EDIT_
MODE=false&SHOW_TOOLS=false&INFO_MODE=false& HTTP/1.1" 200 -1
"http://portal00/Page/Home/LabPage/?id=Z6_4IK0GC42KG7B40AINOIHFQ00G2"
"Mozilla/5.0 (X11; Linux x86_64; rv:31.0) Gecko/20100101 Firefox/31.0"
"LtpaToken2=77BXpAv13wENnmWismMiexe+MGhD9M/1PoLyMnfsLlg9Ou5kUwVDIcVwY4Lds2C+5zZ2
CZDd1jV7g60iCyEpZaPU1ZGg9kZeFrBYdZFBhWh6d8CiLDXgrmr/k/t1R/DdyWSCRfieqsAks/t5g6nv
vH79kZRkN8ZW2ZKJU/eqO5w6hsN9Bajln9LaaN6EuI/eXD+u48H3NPecehqqfLUStKQqzEyxM7f5edk1
ZGi9y0kSR5V0Pc3Q98i90lHnEEV0cU9PdYdJe22rucN0HlrsZYGNqy8CC4o7eG6lfGTjrHqdy61rzVGD
Wop5tOw1UO2YEY0rvW2Z7tjh9G9Qs9gkkn1m+ksnrQW1Ucbds9gDSKcQ+y1x/sMP9vo6+JyaYXau296H
faCKP4G26aavKBnReJKeSqJSlSk3KLxl71w9WxYjkd1IFC2Gg4mmfyrtvXHSdf82+VnHRzbero1buk1F
nt8it+MH2eAvuxJ96XDVaPx4bnPBS5KdT9hd96GjK5ufXB0fN4OlZwEMP5GuGuQ9jj72sdDYXs1LBfqQ
DNKS/6/W9qfh5JJJr+XAH6PLCMGGYpl2huWWESOsIRcgFfdQBeLGyZQuQ4TXdwu5uXb8YiZp4nh/9S7h
MTlzPTtZiJ+C1AZ0tJ30qkloPy0vXdySwg==;JSESSIONID=0000uBt-W-sk978rJJK7LFiDRlp:-1;s
essionCode=942217941;TJE=;TE3="

...
```

The following table describes each field of the log format.

Table 1: Log format fields

Field in the example	Log field name and explanation
`portal00`	**Host**: The IP address or DNS of the HTTP client that sent the request. Important: If a reverse proxy server is between the client and the portal, the IP address that is logged is that of the reverse proxy server rather than the HTTP client. To log the IP address of the HTTP client, you must remove the reverse proxy server from the environment.
`-`	**rcf931:** The identifier that is used to identify the client that makes the request. If the client identifier is not known, the field is set to the hyphen character (-).
`wpsadmin`	**User name**: The user ID for the client. If the user ID is not known, the field is set to the hyphen character (-).
`[08/Dec/2014:12:07:32 -0500]`	**Date: time: timezone:** The date and time of the HTTP request.
`"GET /Portlet/Z5_4IK0GC42KG7B40AIN OIHFQ00E1/Web_Content_Viewer_ (JSR_286)/blog%2Fblog%2Fhome% 2F95c189804d4268bf8d49ede9170 f1e3d?PortletPID=Z5_4IK0GC42K G7B40AINOIHFQ00E1&PortletMode =view&PortletState=normal&Req uestType=render&HELP_MODE=fal se&EDIT_MODE=false&SHOW_TOOLS =false&INFO_MODE=false& HTTP/1.1"`	**Request**: The HTTP method, the URL of the requested resource and the version of HTTP that the client uses.
`200`	**Statuscode**: The HTTP status code for the request.
`-1`	**bytes**: The number of bytes of data that is transferred from the client as part of the request. A value of -1 means *unknown*.
`"http://portal00/Page/Home/La bPage/?id=Z6_4IK0GC42KG7B40AI NOIHFQ00G2"`	**Referrer**: The URL that linked the client to the website. For some requests, the referrer might not be logged. In such cases, the field is set to empty double quotation marks (" ").
`"Mozilla/5.0 (X11; Linux x86_64; rv:31.0) Gecko/20100101 Firefox/31.0"`	**user_agent**: The type of web browser that is used by the client.
`"JSESSIONID=0000uBt-W-sk978rJ JK7LFiDRlp:-1"`	**Cookies**: The name and value of a cookie that was sent to the client browser. If multiple cookies were sent, the semicolon character (;) is used to delimit the list.

End of exercise