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# Enabling Dynamic Compression on an External Web Server for HP Project and Portfolio Management Center

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## Why Use Dynamic Compression?

Wide area networks (WANs) often have both low bandwidth and high latency (delays in network data processing), which significantly degrade network performance. Users who access applications over a WAN experience poorer response times than users who access the same applications through a local area network (LAN).

HP Project and Portfolio Management Center (PPM Center) leverages application content compression to minimize the performance overhead imposed by operating in a WAN environment. Rather than compress content within the application code, PPM Center uses the compression capabilities of both the Tomcat Web container that runs in JBoss and the compression capabilities in third-party Web servers (Microsoft Internet Information Services 6.0, Apache-based Web server, or Sun Java System Web Server).

If you deploy PPM Center without an external Web server, the application content is compressed by default, and no additional configuration is required. If, however, you deploy an external Web server as the Web tier, then you must enable compression for that Web server. Otherwise, application content is delivered uncompressed, which translates into poorer response times for users over the WAN.

Enabling content compression on external Web servers is considered a PPM Center best practice. HP strongly recommends that you enable compression if you have PPM Center (Version 7.0 or later) running in a WAN environment.

For information on how to configure an external Web server to work with a PPM Server cluster, see the *System Administration Guide and Reference*.



The procedures described on the following pages apply only to PPM Center 7.0 and later versions. Do not enable dynamic compression on a system running Mercury IT Governance Center Version 6.0 or earlier.

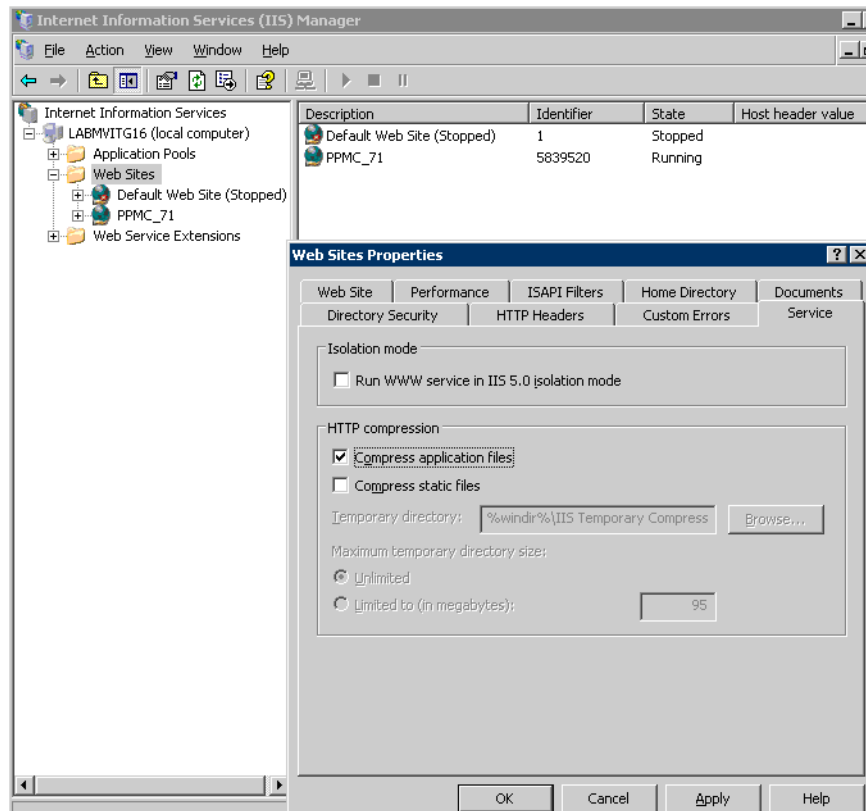
## Enabling Dynamic Content Compression on Microsoft Internet Information Services 6.x

To enable HTTP compression through the Microsoft Internet Information Services (IIS) 6.x Manager console:

1. Open the Internet Information Services (IIS) Manager window.
2. Under the name of the computer that hosts the IIS site, right-click the **Web Sites** folder, and then select **Properties** on the shortcut menu.

The Web Sites Properties window opens.

3. On the **Service** tab, select the **Compress application files** checkbox, and then click **OK**.



4. From either the services Control Panel or the command line, stop and then restart the World Wide Web Publishing Service.



If you need to enable compression for a subset of the Web sites hosted by the server, see [Enabling HTTP Compression \(IIS 6.0\)](#), which is available on the Microsoft TechNet Web site.

## Enabling Dynamic Content Compression on Apache-Based Web Servers

This section provides information on how to enable dynamic compression on an Apache-based Web server that either has been compiled with the `mod_deflate` module enabled or that can load the dynamic module. Apache Web server installation documentation provides instructions on how to enable modules within the application server. If `mod_deflate` is not loaded in Apache, the following steps will fail to enable content compression.

To enable compression of dynamic assets on an Apache-based Web server:

1. Go to the `<Apache_Home>/conf` directory and open the `httpd.conf` file in a text editor.
2. Add the following to the `httpd.conf` file:

```
# gzip config begin
LoadModule deflate_module modules/mod_deflate.so
<Location /itg>
SetOutputFilter DEFLATE
BrowserMatch ^Mozilla/4 gzip-only-text/html
BrowserMatch ^Mozilla/4\.0[678] no-gzip
BrowserMatch \bMSI[E] !no-gzip !gzip-only-text/html
SetEnvIfNoCase Request_URI \
  \.(?:gif|jpe?g|png)$ no-gzip dont-vary
Header append Vary User-Agent env=!dont-vary
</Location>
# gzip config end
```

3. Save and close the `httpd.conf` file.



For information about how to configure an Apache-based Web server to work with a PPM Server cluster, see the *System Administration Guide and Reference* for PPM Center.

## Enabling Dynamic Content Compression on Sun Java System Web Server

To enable compression of dynamic assets on Sun Java System Web Server:

1. On the machine running the Sun Java System Web Server, go to the `<Sun_Home>/https-<webserver_name>/config` directory, and open the `obj.conf` file.

During the initial Sun Java System Web Server configuration, installation of `jk_service` required that the following text be added to the `obj.conf` file (after `</Object>`):

```
<Object name="ppm_servlet">
Service fn="jk_service" worker=<load_balancer>
</Object>
```

2. Modify that text, as follows:

```
<Object name="ppm_servlet">  
Service fn="jk_service" worker=<load_balancer>  
Output fn="insert-filter" filter="http-compression"  
vary="off" compression-level="6"  
</Object>
```



For complete information on how to configure the Sun Java System Web Server to run as the external Web server for PPM Center, see the *System Administration Guide and Reference*.

