IIS 7/7.5 HTTP Compression Configuration

The Continua CI web application makes use of gzip compression if it is installed and configured in IIS.

This guide will step you through the configuration of IIS 7 and IIS 7.5 to enable gzip compression.

Step by Step

1. Start up Internet Information Services (IIS) Manager, click on the Server node and go to the Compression module.



If the "Enable dynamic content compression" checkbox is disabled and you see this yellow alert on the right-hand side, then this indicates that it is not installed

Alerts					
i	Use of dynamic compression may increase processor utilization and reduce the overall performance of the server.				
1	The dynamic content compression module is not installed.				

2. If it's not installed, open the Server Manager. Navigate to Roles, Web Server (IIS).



Click on Add Role Services and locate the Dynamic Content Compression role under Web Server, Performance and tick the checkbox. Click Next to continue to the Confirmation page and click Install.

Add Role Services		×
Select Role Servi	ces	
Role Services Confirmation Progress Results	Select the role services to install for Web Server (IIS): Role services: Web Server (Installed) Application Development (Installed) Application Development (Installed) Security (Installed) Security (Installed) Security (Installed) Performance (Installed) Static Content Compression (Installed) Management Tools (Installed) Its Management Scripts and Tools (Installed) Its 6 Management Scripts ont Tools (Installed) Its 6 Management Compatibility Its 6 Management Compatibility Its 6 Management Console FTP Server FTP Service FTP Service FTP Service FTP Extensibility Its Hostable Web Core	Description: <u>Dynamic Content Compression</u> provides infrastructure to configure HTTP compression of dynamic compression always gives you more efficient utilization of bandwidth, but if your server's processor utilization is already very high, the CPU load imposed by dynamic compression might make your site perform more slowly.
	< Previous Next	> Install Cancel

3. Once the role is installed go back to the Compression module page in IIS Manager and ensure that both dynamic compression and static compression are enabled. Note that you need to do this at the Server level not the Website level.

	Compression	
Use this	feature to configure settings for compression of responses. This can impro	ve the perceived performance of a Web site greatly reduce bandwidth-related charges.
🗹 E	nable dynamic content compression	
🔽 E	nable static content compression	
Sta	tic Compression Only compress files larger than (in bytes): 2700 he directory:	
%5	ystemDrive%\inetpub\temp\IIS Temporary Compressed Files	
V	Per application pool disk space limit (in MB):	

100

4. Compression is now set up, but we still need to add the mimeTypes that we want to compress. Go to the Configuration Editor



5. Select system.webServer/httpCompression from the Section dropdown list



Configuration Editor

and click on the edit button next to dynamicTypes:

ection: system.webServer/httpCompression	•
Deepest Path: MACHINE/WEBROOT/APPHOST	
(Collection)	(Count=1)
cacheControlHeader	max-age=86400
directory	%SystemDrive%\inetpub\temp\IIS Temporary Compressed Files
doDiskSpaceLimiting	True
dynamicCompressionBufferLimit	65536
dynamicCompressionDisableCpuUsage	90
dynamicCompressionEnableCpuUsage	50
dynamicTypes	(Count=4)
expiresHeader	Wed, 01 Jan 1997 12:00:00 GMT
maxDiskSpaceUsage	100
minFileSizeForComp	2700
noCompressionForHttp10	True
noCompressionForProxies	True
noCompressionForRange	True
sendCacheHeaders	False
staticCompressionDisableCpuUsage	100
staticCompressionEnableCpuUsage	50
staticTypes	(Count=6)

6. Continua CI web pages updates are sent as JSON so we need to add entries for the mimeTypes "application/json;charset=utf-8" and "application /json" with Enabled set to True.

ction Editor - system.webSe	rver/http	Compression/dynamicTypes/			?
ms:			Actions:		
mimeType	enabled	Entry Path		Collection	
text/*	True	MACHINE/WEBROOT/APPHOST		Collection	
message/*	True	MACHINE/WEBROOT/APPHOST		Add	
application/x-javascript	True	MACHINE/WEBROOT/APPHOST		Clear All	
/	False	MACHINE/WEBROOT/APPHOST		These Descentions	
application/json;charset=utf-8	True			Item Properties	
application/json	True			Lock Item	
				X Remove	
				- Remove	
				Help	
				Online Help	
erties:					
ablad		Тине			
		annlication/icon			
nerype		r application/json			
led					
lyne-hool					

Then close the Collection Editor, click Apply and Restart your IIS Service to load the new module.

7. To confirm that compression is now on, open Continua in your web browser and check the response headers under the Network tab in the developer tools

Response Headers view source

Cache-Control: no-cache, no-store Content-Encoding: gzip Content-Length: 16976 Content-Type: application/json; charset=utf-8 Date: Wed, 15 Jun 2016 05:27:39 GMT