**The HTTP status code in IIS 7 and later versions**

Applies to: Internet Information Services 8.5Internet Information Services 8.0Internet Information Services 7.5 [**More**](https://support.microsoft.com/)

This article also applies to Internet Information Services 7.0.

**INTRODUCTION**

When you try to access content on a server that is running Internet Information Services (IIS) 7.0, 7.5 or later versions by using the HTTP protocol, IIS returns a numeric code that indicates the status of the response. The HTTP status code is recorded in the IIS log. Additionally, the HTTP status code may be displayed in the client browser.  
  
The HTTP status code may indicate whether a request is successful or unsuccessful. The HTTP status code may also reveal the exact reason that a request is unsuccessful.

Home users This article is intended for use by support agents and IT professionals. If you're looking for more information about website error messages, please go to the following Windows website:

[Get help with website error messages (HTTP errors)](http://windows.microsoft.com/en-us/windows-vista/get-help-with-website-error-messages-http-errors)

**More Information**

**Log file locations**

By default, IIS 7.0 and later versions put log files in the following folder:

inetpub\logs\Logfiles

This folder contains separate directories for each World Wide Web website. By default, the log files are created in the directories daily, and the log files are named by using the date. For example, a log file may be named as follows:

ex**YYMMDD**.log

**The HTTP status codes**

This section describes the HTTP status codes that IIS 7.0 and later versions use.  
  
Note This article does not list every possible HTTP status code as dictated in the HTTP specification. This article includes only the HTTP status codes that IIS 7.0 and later versions can send. For example, a custom Internet Server API (ISAPI) filter or a custom HTTP module can set its own HTTP status code.

**1xx - Informational**

These HTTP status codes indicate a provisional response. The client computer receives one or more 1**xx**responses before the client computer receives a regular response.  
  
IIS 7.0 and later versions use the following informational HTTP status codes:

* 100 - Continue.
* 101 - Switching protocols.

**2xx - Success**

These HTTP status codes indicate that the server successfully accepted the request.  
  
IIS 7.0 and later versions use the following success HTTP status codes:

* 200 - OK. The client request has succeeded.
* 201 - Created.
* 202 - Accepted.
* 203 - Nonauthoritative information.
* 204 - No content.
* 205 - Reset content.
* 206 - Partial content.

**3xx - Redirection**

These HTTP status codes indicate that the client browser must take more action to fulfill the request. For example, the client browser may have to request a different page on the server. Or, the client browser may have to repeat the request by using a proxy server.  
  
IIS 7.0 and later versions use the following redirection HTTP status codes:

* 301 - Moved permanently.
* 302 - Object moved.
* 304 - Not modified.
* 307 - Temporary redirect.

**4xx - Client error**

These HTTP status codes indicate that an error occurred and that the client browser appears to be at fault. For example, the client browser may have requested a page that does not exist. Or, the client browser may not have provided valid authentication information.  
  
IIS 7.0 and later versions use the following client error HTTP status codes:

* 400 - Bad request. The request could not be understood by the server due to malformed syntax. The client should not repeat the request without modifications.  
    
  IIS 7.0 and later versions define the following HTTP status codes that indicate a more specific cause of a 400 error:
  + 400.1 - Invalid Destination Header.
  + 400.2 - Invalid Depth Header.
  + 400.3 - Invalid If Header.
  + 400.4 - Invalid Overwrite Header.
  + 400.5 - Invalid Translate Header.
  + 400.6 - Invalid Request Body.
  + 400.7 - Invalid Content Length.
  + 400.8 - Invalid Timeout.
  + 400.9 - Invalid Lock Token.
* 401 - Access denied.  
    
  IIS 7.0 and later versions define several HTTP status codes that indicate a more specific cause of a 401 error. The following specific HTTP status codes are displayed in the client browser but are not displayed in the IIS log:
  + 401.1 - Logon failed.
  + 401.2 - Logon failed due to server configuration.
  + 401.3 - Unauthorized due to ACL on resource.
  + 401.4 - Authorization failed by filter.
  + 401.5 - Authorization failed by ISAPI/CGI application.
* 403 - Forbidden.  
    
  IIS 7.0 and later versions define the following HTTP status codes that indicate a more specific cause of a 403 error:
  + 403.1 - Execute access forbidden.
  + 403.2 - Read access forbidden.
  + 403.3 - Write access forbidden.
  + 403.4 - SSL required.
  + 403.5 - SSL 128 required.
  + 403.6 - IP address rejected.
  + 403.7 - Client certificate required.
  + 403.8 - Site access denied.
  + 403.9 - Forbidden: Too many clients are trying to connect to the web server.
  + 403.10 - Forbidden: web server is configured to deny Execute access.
  + 403.11 - Forbidden: Password has been changed.
  + 403.12 - Mapper denied access.
  + 403.13 - Client certificate revoked.
  + 403.14 - Directory listing denied.
  + 403.15 - Forbidden: Client access licenses have exceeded limits on the web server.
  + 403.16 - Client certificate is untrusted or invalid.
  + 403.17 - Client certificate has expired or is not yet valid.
  + 403.18 - Cannot execute requested URL in the current application pool.
  + 403.19 - Cannot execute CGI applications for the client in this application pool.
  + 403.20 - Forbidden: Passport logon failed.
  + 403.21 - Forbidden: Source access denied.
  + 403.22 - Forbidden: Infinite depth is denied.
  + 403.501 - Forbidden: Too many requests from the same client IP; Dynamic IP Restriction Concurrent request rate limit reached.
  + 403.502 - Forbidden: Too many requests from the same client IP; Dynamic IP Restriction Maximum request rate limit reached.
  + 403.503 - Forbidden: the IP address is included in the Deny list of IP Restriction
  + 403.504 - forbidden: the host name is included in the Deny list of IP Restriction
* 404 - Not found.  
    
  IIS 7.0 and later versions define the following HTTP status codes that indicate a more specific cause of a 404 error:
  + 404.0 - Not found.
  + 404.1 - Site Not Found.
  + 404.2 - ISAPI or CGI restriction.
  + 404.3 - MIME type restriction.
  + 404.4 - No handler configured.
  + 404.5 - Denied by request filtering configuration.
  + 404.6 - Verb denied.
  + 404.7 - File extension denied.
  + 404.8 - Hidden namespace.
  + 404.9 - File attribute hidden.
  + 404.10 - Request header too long.
  + 404.11 - Request contains double escape sequence.
  + 404.12 - Request contains high-bit characters.
  + 404.13 - Content length too large.
  + 404.14 - Request URL too long.
  + 404.15 - Query string too long.
  + 404.16 - DAV request sent to the static file handler.
  + 404.17 - Dynamic content mapped to the static file handler via a wildcard MIME mapping.
  + 404.18 - Querystring sequence denied.
  + 404.19 - Denied by filtering rule.
  + 404.20 - Too Many URL Segments
* 405 - Method Not Allowed.
* 406 - Client browser does not accept the MIME type of the requested page.
* 408 - Request timed out.
* 412 - Precondition failed.

**5xx - Server error**

These HTTP status codes indicate that the server cannot complete the request because the server encounters an error.  
  
IIS and later versions use the following server error HTTP status codes:

* 500 - Internal server error.  
    
  IIS 7.0 and later versions define the following HTTP status codes that indicate a more specific cause of a 500 error:
  + 500.0 - Module or ISAPI error occurred.
  + 500.11 - Application is shutting down on the web server.
  + 500.12 - Application is busy restarting on the web server.
  + 500.13 - Web server is too busy.
  + 500.15 - Direct requests for Global.asax are not allowed.
  + 500.19 - Configuration data is invalid.
  + 500.21 - Module not recognized.
  + 500.22 - An ASP.NET httpModules configuration does not apply in Managed Pipeline mode.
  + 500.23 - An ASP.NET httpHandlers configuration does not apply in Managed Pipeline mode.
  + 500.24 - An ASP.NET impersonation configuration does not apply in Managed Pipeline mode.
  + 500.50 - A rewrite error occurred during RQ\_BEGIN\_REQUEST notification handling. A configuration or inbound rule execution error occurred.

Note Here is where the distributed rules configuration is read for both inbound and outbound rules.

* + 500.51 - A rewrite error occurred during GL\_PRE\_BEGIN\_REQUEST notification handling. A global configuration or global rule execution error occurred.

Note Here is where the global rules configuration is read.

* + 500.52 - A rewrite error occurred during RQ\_SEND\_RESPONSE notification handling. An outbound rule execution occurred.
  + 500.53 - A rewrite error occurred during RQ\_RELEASE\_REQUEST\_STATE notification handling. An outbound rule execution error occurred. The rule is configured to be executed before the output user cache gets updated.
  + 500.100 - Internal ASP error.
* 501 - Header values specify a configuration that is not implemented.
* 502 - Web server received an invalid response while acting as a gateway or proxy.  
    
  IIS 7.0 and later versions define the following HTTP status codes that indicate a more specific cause of a 502 error:
  + 502.1 - CGI application timeout.
  + 502.2 - Bad gateway: Premature Exit.
  + 502.3 - Bad Gateway: Forwarder Connection Error (ARR).
  + 502.4 - Bad Gateway: No Server (ARR).
* 503 - Service unavailable.  
    
  IIS 7.0 and later versions define the following HTTP status codes that indicate a more specific cause of a 503 error:
  + 503.0 - Application pool unavailable.
  + 503.2 - Concurrent request limit exceeded.
  + 503.3 - ASP.NET queue full
  + 503.4 - FastCGI queue full

**Common HTTP status codes and the causes**

The following table describes the causes of some common HTTP status codes.

|  |  |  |
| --- | --- | --- |
| **Code** | **Description** | **Notes** |
| 200 | OK | IIS 7.0 and later versions successfully processed the request. |
| 304 | Not modified | The client browser requests a document that is already in the cache, and the document has not been modified since the document was cached. The client browser uses the cached copy of the document instead of downloading the document from the server. |
| 400 | Bad request | The Http.sys file blocks IIS 7.0 and later versions from processing the request because of a problem in the request. Typically, this HTTP status code means that the request contains characters or sequences that are not valid or that the request contradicts the security settings in the Http.sys file. |
| 401.1 | Logon failed | The logon attempt is unsuccessful probably because of a user name or a password that is not valid. For more information about how to resolve this problem, click the following article number to view the article in the Microsoft Knowledge Base:  [942044](https://support.microsoft.com/en-us/help/942044)Error message when you try to run a web application that is hosted on IIS 7.0: "HTTP Error 401.1 - Not Found" |
| 401.2 | Logon failed due to server configuration | This HTTP status code indicates a problem in the authentication configuration settings on the server. For more information about how to resolve this problem, click the following article number to view the article in the Microsoft Knowledge Base:  [942043](https://support.microsoft.com/en-us/help/942043)Error message when you try to visit a webpage that is hosted on IIS 7.0: "HTTP Error 401.2 - Unauthorized" |
| 401.3 | Unauthorized due to ACL on resource | This HTTP status code indicates a problem in the NTFS file system permissions. This problem may occur even if the permissions are correct for the file that you are trying to access. For example, this problem occurs if the IUSR account does not have access to the C:\Winnt\System32\Inetsrv directory. For more information about how to resolve this problem, click the following article number to view the article in the Microsoft Knowledge Base:  [942042](https://support.microsoft.com/en-us/help/942042)Error message when you try to browse a webpage that is hosted on a server that is running IIS 7.0: "HTTP Error 401.3 - Unauthorized" |
| 401.4 | Authorization failed by filter | An ISAPI filter does not let the request be processed because of an authorization problem. For more information about how to resolve this problem, click the following article number to view the article in the Microsoft Knowledge Base:  [942079](https://support.microsoft.com/en-us/help/942079)Error message when you visit a website that is hosted on IIS 7.0: "HTTP Error 401.4 - Authorization failed by filter" |
| 401.5 | Authorization failed by ISAPI/CGI application | An ISAPI application or a Common Gateway Interface (CGI) application does not let the request be processed because of an authorization problem. For more information about how to resolve this problem, click the following article number to view the article in the Microsoft Knowledge Base:  [942078](https://support.microsoft.com/en-us/help/942078)Error message when you visit a website that is hosted on a computer that is running IIS 7.0: "HTTP Error 401.5 - Authorization failed by ISAPI/CGI application" |
| 403.1 | Execute access forbidden | The appropriatelevel of the Execute permission is not granted. For more information about how to resolve this problem, click the following article number to view the article in the Microsoft Knowledge Base:  [942065](https://support.microsoft.com/en-us/help/942065)Error message when you visit a website that is hosted on IIS 7.0: "HTTP Error 403.1 - Forbidden" |
| 403.2 | Read access forbidden | The appropriate level of the Read permission is not granted. Verify that you have set up IIS 7.0 and later versions to grant the Read permission to the directory. Additionally, if you use a default document, verify that the default document exists. For more information about how to resolve this problem, click the following article number to view the article in the Microsoft Knowledge Base:  [942036](https://support.microsoft.com/en-us/help/942036)Error message when you visit a website that is hosted on IIS 7.0: "HTTP Error 403.2 - Forbidden" |
| 403.3 | Write access forbidden | The appropriate level of the Write permission is not granted. Verify that the IIS 7.0 and later versions permissions and the NTFS file system permissions are set up to grant the Write permission to the directory. For more information about how to resolve this problem, click the following article number to view the article in the Microsoft Knowledge Base:  [942035](https://support.microsoft.com/en-us/help/942035)Error message when you visit a website that is hosted on IIS 7.0: "HTTP Error 403.3 - Forbidden" |
| 403.4 | SSL required | The request is made over a nonsecure channel, and the web application requires a Secure Sockets Layer (SSL) connection. For more information about how to resolve this problem, click the following article number to view the article in the Microsoft Knowledge Base:  [942070](https://support.microsoft.com/en-us/help/942070)Error message when you visit a website that is hosted on IIS 7.0: "HTTP Error 403.4 - Forbidden" |
| 403.5 | SSL 128 required | The server is configured to require a 128-bit SSL connection. But, the request is not sent by using 128-bit encryption. For more information about how to resolve this problem, click the following article number to view the article in the Microsoft Knowledge Base:  [942069](https://support.microsoft.com/en-us/help/942069)Error message when you try to browse a webpage that is hosted on IIS 7.0: "HTTP Error 403.5 - Forbidden" |
| 403.6 | IP address rejected | The server is configured to deny access to the current IP address. For more information about how to resolve this problem, click the following article number to view the article in the Microsoft Knowledge Base:  [942068](https://support.microsoft.com/en-us/help/942068)Error message when you visit a website that is hosted on IIS 7.0: "HTTP Error 403.6 - IP Address Rejected" |
| 403.7 | Client certificate required | The server is configured to require a certificate for client authentication. But, the client browser does not have an appropriate client certificate installed. For more information, click the following article number to view the article in the Microsoft Knowledge Base:  [942067](https://support.microsoft.com/en-us/help/942067)Error message when you try to run a web application that is hosted on a server that is running IIS 7.0: "HTTP Error 403.7 - Forbidden" |
| 403.8 | Site access denied | The server is configured to deny requests based on the Domain Name System (DNS) name of the client computer. For more information about how to resolve this problem, click the following article number to view the article in the Microsoft Knowledge Base:  [942066](https://support.microsoft.com/en-us/help/942066)Error message when you visit a website that is hosted on IIS 7.0: "HTTP Error 403.8 - Forbidden" |
| 403.12 | Mapper denied access | The page that you want to access requires a client certificate. But, the user ID that is mapped to the client certificate is denied access to the file. For more information, click the following article number to view the article in the Microsoft Knowledge Base:  [942064](https://support.microsoft.com/en-us/help/942064)Error message when you visit a website that is hosted on IIS 7.0: "HTTP Error 403.12 - Client Certificate Denied" |
| 403.13 | Client certificate revoked | The client browser tries to use a client certificate that was revoked by the issuing certification authority. For more information, click the following article number to view the article in the Microsoft Knowledge Base:  [942063](https://support.microsoft.com/en-us/help/942063)Error message when you visit a website that is hosted on IIS 7.0: "HTTP Error 403.13 - Forbidden" |
| 403.14 | Directory listing denied | The server is not configured to display a content directory listing, and a default document is not set. For more information, click the following article number to view the article in the Microsoft Knowledge Base:  [942062](https://support.microsoft.com/en-us/help/942062)Error message when you visit a website that is hosted on IIS 7.0: "HTTP Error 403.14 - Forbidden" |
| 403.16 | Client certificate is untrusted or invalid. | The client browser tries to use a client certificate that is not trusted by the server that is running IIS 7.0 and later versions or that is not valid. For more information, click the following article number to view the article in the Microsoft Knowledge Base:  [942061](https://support.microsoft.com/en-us/help/942061)Error message when you visit a website that is hosted on IIS 7.0: "HTTP Error 403.16 - Forbidden" |
| 403.17 | Client certificate has expired or is not yet valid. | The client browser tries to use a client certificate that is expired or that is not yet valid. For more information, click the following article number to view the article in the Microsoft Knowledge Base:  [942038](https://support.microsoft.com/en-us/help/942038)Error message when you try to visit a webpage that is hosted on Internet Information Services 7.0: "HTTP Error 403.17 (Forbidden) - The client certificate has expired" |
| 403.18 | Cannot execute requested URL in the current application pool. | A custom error page is configured, and the custom error page resides in a different application pool than the application pool of the requested URL. For more information, click the following article number to view the article in the Microsoft Knowledge Base:  [942037](https://support.microsoft.com/en-us/help/942037)Error message when you visit a website that is hosted on IIS 7.0: "HTTP Error 403.18 - Forbidden" |
| 403.19 | Cannot execute CGI applications for the client browser in this application pool. | The identity of the application pool does not have the Replace a process level token user right. For more information, click the following article number to view the article in the Microsoft Knowledge Base:  [942048](https://support.microsoft.com/en-us/help/942048)Error message when you visit a website that is hosted on IIS 7.0: "HTTP Error 403.19 - Forbidden" |
| 404.0 | Not found. | The file that you are trying to access was moved or does not exist. For more information, click the following article number to view the article in the Microsoft Knowledge Base:  [942041](https://support.microsoft.com/en-us/help/942041)Error message when you try to open a webpage that is hosted on IIS 7.0: "HTTP Error 404.0 - Not Found" |
| 404.2 | ISAPI or CGI restriction. | The requested ISAPI resource or the requested CGI resource is restricted on the computer. For more information, click the following article number to view the article in the Microsoft Knowledge Base:  [942040](https://support.microsoft.com/en-us/help/942040)Error message when you try to visit a webpage that is hosted on a computer that is running IIS 7.0: "HTTP Error 404.2 – Not Found" |
| 404.3 | MIME type restriction. | The current MIME mapping for the requested extension type is not valid or is not configured. For more information, click the following article number to view the article in the Microsoft Knowledge Base:  [942032](https://support.microsoft.com/en-us/help/942032)Error message when users visit a website that is hosted on a server that is running Internet Information Services 7.0: "HTTP Error 404.3 - Not Found" |
| 404.4 | No handler configured. | The file name extension of the requested URL does not have a handler that is configured to process the request on the Web server. For more information, click the following article number to view the article in the Microsoft Knowledge Base:  [942052](https://support.microsoft.com/en-us/help/942052)Error message when you visit a website that is hosted on IIS 7.0: "HTTP Error 404.4 - Not Found" |
| 404.5 | Denied by request filtering configuration. | The requested URL contains a character sequence that is blocked by the server. For more information, click the following article number to view the article in the Microsoft Knowledge Base:  [942053](https://support.microsoft.com/en-us/help/942053)Error message when you visit a website that is hosted on IIS 7.0: "HTTP Error 404.5 - URL Sequence Denied" |
| 404.6 | Verb denied. | The request is made by using an HTTP verb that is not configured or that is not valid. For more information, click the following article number to view the article in the Microsoft Knowledge Base:  [942046](https://support.microsoft.com/en-us/help/942046)Error message when you visit a website that is hosted on IIS 7.0: "HTTP Error 404.6 - VERB\_DENIED" |
| 404.7 | File extension denied. | The requested file name extension is not allowed. For more information, click the following article number to view the article in the Microsoft Knowledge Base:  [942045](https://support.microsoft.com/en-us/help/942045)Error message when you try to browse a webpage that is hosted on IIS 7.0: "HTTP Error 404.7 - FILE\_EXTENSION\_DENIED" |
| 404.8 | Hidden namespace. | The requested URL is denied because the directory is hidden. For more information, click the following article number to view the article in the Microsoft Knowledge Base:  [942047](https://support.microsoft.com/en-us/help/942047)Error message when you try to visit a webpage that is hosted on IIS 7.0: "HTTP Error 404.8 - HIDDEN\_NAMESPACE" |
| 404.9 | File attribute hidden. | The requested file is hidden. For more information, click the following article number to view the article in the Microsoft Knowledge Base:  [942049](https://support.microsoft.com/en-us/help/942049)Error message when you try to visit a website that is hosted on IIS 7.0: "HTTP Error 404.9 - File Attribute Hidden" |
| 404.10 | Request header too long. | The request is denied because the request headers are too long. For more information, click the following article number to view the article in the Microsoft Knowledge Base:  [942077](https://support.microsoft.com/en-us/help/942077)Error message when you visit a website that is hosted on a server that is running Internet Information Services 7.0: "HTTP Error 404.10 - REQUEST\_HEADER\_TOO\_LONG" |
| 404.11 | Request contains double escape sequence. | The request contains a double escape sequence. For more information, click the following article number to view the article in the Microsoft Knowledge Base:  [942076](https://support.microsoft.com/en-us/help/942076)Error message when you visit a website that is hosted on IIS 7.0: "HTTP Error 404.11 - URL\_DOUBLE\_ESCAPED" |
| 404.12 | Request contains high-bit characters. | The request contains high-bit characters, and the server is configured not to allow high-bit characters. For more information, click the following article number to view the article in the Microsoft Knowledge Base:  [942075](https://support.microsoft.com/en-us/help/942075)Error message when you visit a website that is hosted on IIS 7.0: "HTTP Error 404.12 - URL\_HAS\_HIGH\_BIT\_CHARS" |
| 404.13 | Content length too large. | The request contains a Content-Length header. The value of the Content-Length header is larger than the limit that is allowed for the server. For more information, click the following article number to view the article in the Microsoft Knowledge Base:  [942074](https://support.microsoft.com/en-us/help/942074)Error message when you visit a website that is hosted on a server that is running Internet Information Services 7.0: "HTTP Error 404.13 - CONTENT\_LENGTH\_TOO\_LARGE" |
| 404.14 | Request URL too long. | The requested URL exceeds the limit that is allowed for the server. For more information, click the following article number to view the article in the Microsoft Knowledge Base:  [942073](https://support.microsoft.com/en-us/help/942073)Error message when you visit a website that is hosted on IIS 7.0: "HTTP Error 404.14 - URL\_TOO\_LONG" |
| 404.15 | Query string too long. | The request contains a query string that is longer than the limit that is allowed for the server. For more information, click the following article number to view the article in the Microsoft Knowledge Base:  [942071](https://support.microsoft.com/en-us/help/942071)Error message when you visit a website that is hosted on a server that is running IIS 7.0: "HTTP Error 404.15 - Not Found" |
| 404.17 | Dynamic content mapped to the static file handler. | For more information, click the following article number to view the article in the Microsoft Knowledge Base:  [2019689](https://support.microsoft.com/en-us/help/2019689)Error message when you visit a website that is hosted on IIS 7.0: "HTTP Error 404.17 - Not Found" |
| 405.0 | Method not allowed. | The request is made by using an HTTP method that is not valid. For more information, click the following article number to view the article in the Microsoft Knowledge Base:  [942051](https://support.microsoft.com/en-us/help/942051)Error message when a user visits a website that is hosted on a server that is running Internet Information Services 7.0: "HTTP Error 405.0 - Method not allowed" |
| 406.0 | Invalid MIME type. | The request is made by using an Accept header that contains a MIME value that is not valid. For more information, click the following article number to view the article in the Microsoft Knowledge Base:  [942050](https://support.microsoft.com/en-us/help/942050)Error message when you visit a website that is hosted on a server that is running Internet Information Services 7.0: "HTTP Error 406 - Not Acceptable" |
| 412.0 | Precondition failed. | The request is made by using an If-Match request header that contains a value that is not valid. For more information, click the following article number to view the article in the Microsoft Knowledge Base:  [942056](https://support.microsoft.com/en-us/help/942056)Error message when you visit a website that is hosted on Internet Information Services (IIS) 7.0: "HTTP Error 412 - Precondition failed" |
| 500 | Internal server error. | This HTTP status code may occur for many server-side reasons. For more information, click the following article number to view the article in the Microsoft Knowledge Base:  [942031](https://support.microsoft.com/en-us/help/942031)Error message when you visit a website that is hosted on IIS 7.0: "HTTP Error 500.0 - Internal Server Error" |
| 500.11 | Application is shutting down on the web server. | The request is not processed because the destination application pool is shutting down. Wait for the worker process to finish shutting down, and then try the request again. If this problem persists, the web application may be experiencing problems that prevent the web application from shutting down correctly. |
| 500.12 | Application is busy restarting on the web server. | The request is not processed because the destination application pool is restarting. This HTTP status code should disappear when you refresh the page. If this HTTP status code appears again after you refresh the page, the problem may be caused by antivirus software that is scanning the Global.asa file. If this problem persists, the web application may be experiencing problems that prevent the web application from restarting correctly. |
| 500.13 | Web server is too busy. | The request is not processed because the server is too busy to accept any new incoming requests. Typically, this HTTP status code means that the number of incoming concurrent requests exceeds the number that the IIS 7.0 and later versions web application can process. This problem may occur because the performance configuration settings are set too low, the hardware is insufficient, or a bottleneck occurs in the IIS 7.0 and later versions web application. A common troubleshooting method is to generate a memory dump file of the IIS 7.0 and later versions processes when the error is occurring and then to debug the memory dump file. |
| 500.15 | Direct requests for Global.asax are not allowed. | A direct request for the Global.asa file or for the Global.asax file is made. For more information, click the following article number to view the article in the Microsoft Knowledge Base:  [942030](https://support.microsoft.com/en-us/help/942030)Error message when you visit a website that is hosted on IIS 7.0: "HTTP Error 500.15 - Direct request for global.asa are not allowed" |
| 500.19 | Configuration data is invalid. | This HTTP status code occurs because of a problem in the associated Applicationhost.config file or in the associated Web.config file. For more information, click the following article number to view the article in the Microsoft Knowledge Base:  [942055](https://support.microsoft.com/en-us/help/942055)Error message when you visit a website that is hosted on IIS 7.0: "HTTP Error 500.19 - Internal Server Error" |
| 500.100 | Internal ASP error. | An error occurs during the processing of an Active Server Pages (ASP) page. To obtain more specific information about the error, disable friendly HTTP error messages in the web browser. Additionally, the IIS log may show an ASP error number that corresponds to the error that occurs. For more information about ASP error messages and about the meaning of ASP error messages, click the following article number to view the article in the Microsoft Knowledge Base:  [294271](https://support.microsoft.com/en-us/help/294271)ASP error codes |
| 501.0 | Not implemented. | The client browser sends an HTTP-Trace verb, and the server is not configured to process the HTTP-Trace verb. For more information, click the following article number to view the article in the Microsoft Knowledge Base:  [942058](https://support.microsoft.com/en-us/help/942058)Error message when you visit a website that is hosted on IIS 7.0: "HTTP Error 501.0 - Not Implemented" |
| 502.1 | CGI application timeout. | A CGI application does not return a valid HTTP response in the configured time limit. For more information, click the following article number to view the article in the Microsoft Knowledge Base:  [942059](https://support.microsoft.com/en-us/help/942059)Error message when you visit a website that is hosted on IIS 7.0: "HTTP Error 502.1 - Bad Gateway" |
| 502.2 | Bad gateway: Premature Exit | A CGI application returns an HTTP response that is not valid to the server that is running IIS 7.0 and later versions. For more information, click the following article number to view the article in the Microsoft Knowledge Base:  [942057](https://support.microsoft.com/en-us/help/942057)Error message when you visit a website that is hosted on IIS 7.0: "HTTP Error 502.2 - Bad Gateway" |
| 503.0 | Service unavailable. | The request is sent to an application pool that is currently stopped or that is currently disabled. To resolve this issue, make sure that the destination application pool is started. The event log may give information about why the application pool is stopped or disabled. |
| 503.2 | Concurrent request limit exceeded. | The appConcurrentRequestLimitproperty is set to a value that is lower than the current number of concurrent requests. IIS 7.0 and later versions do not allow more concurrent requests than the value of the appConcurrentRequestLimitproperty. |

**HTTP substatus codes**

**Added in IIS 8.0**

|  |  |
| --- | --- |
| **Subcode** | **Description** |
| 400.10 | Invalid XFF header |
| 400.11 | Invalid WebSocket request |

**Added in ARR 3.0.1916**

|  |  |
| --- | --- |
| **Subcode** | **Description** |
| 400.601 | Bad client request (ARR) |
| 400.602 | Invalid time format (ARR) |
| 400.603 | Parse range error (ARR) |
| 400.604 | Client gone (ARR) |
| 400.605 | Maximum number of forwards (ARR) |
| 400.606 | Asynchronous competition error (ARR) |
|  |  |
| 502.2 | Map request failure (ARR) |
| 502.3 | WinHTTP asynchronous completion failure (ARR) |
| 502.4 | No server (ARR) |
| 502.5 | WebSocket failure (ARR) |
| 502.6 | Forwarded request failure (ARR) |
| 502.7 | Execute request failure (ARR) |

**References**

For more information about HTTP status code definitions, visit the following World Wide Web Consortium (W3C) website:

[http://www.w3.org/Protocols/rfc2616/rfc2616-sec10.html#sec10](http://www.w3.org/protocols/rfc2616/rfc2616-sec10.html#sec10)

Microsoft provides third-party contact information to help you find technical support. This contact information may change without notice. Microsoft does not guarantee the accuracy of this third-party contact information.

An HttpModule will execute for every request to your application, regardless of extension, and is generally used for things like security, statistics, logging, etc.

An HttpHandler is generally associated with a specific extension, and is used for things like RSS feeds, dynamic image generation or modification, and the like.