

Url rewrite microsoft

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IIS URL Rewrite has five different types of actions. They are: Rewrite, Redirect, Custom Response, Abort Request, and None. And if you have ARR (Application Request Routing) installed, then as the server level you'll also see Route to Server Fw. The two most common actions are the Rewrite and the Redirect. A common question that comes up for people who just start working with URL Rewrite is: what is the difference between a rewrite and a redirect? I remember wondering the same thing. Fortunately there are some very clear cut-and-dry differences between them. Simply put, a redirect is a client-side request to have the web browser go to another URL. This means that the URL that you see in the browser will update to the new URL. A rewrite is a server-side rewrite of the URL before it's fully processed by IIS. This will not change what you see in the browser because the changes are hidden from the user. Let's take a look at some other differences between them: Redirect Rewrite Client-side Server-side Changes URL in browser address bar Doesn't change URL in browser address bar Supports the following redirects: 301 - Permanent 302 - Found 303 - See Other 307 - Temporary Redirect status is non-applicable Useful for search engine optimization by causing the search engine to update the URL. Also useful for search engines by using a friendly URL to hide a messy URL. Example: to in the browser Example: is a friendly URL for Can redirect to the same site or an unrelated site. Generally rewrites to the same site using a relative path, although if you have the ARR module installed you can rewrite to a different site. When you rewrite to a different site, URL Rewrite functions as a reverse proxy. The page request flow is: Browser requests a page Server responds with a redirect status code Browser makes 2nd request to the new URL The page request flow is: Browser requests a page URL Rewrite rewrites the URL and makes request (still within IIS) for the updated page Fiddler is a great tool to see the back and forth between the browser and server. Tools like Process Monitor and native IIS tools are best for getting under the covers. Let's take a look at some further examples: A redirect changes the URL in the browser, like in the following examples: Add a www to the domain name: Enforce trailing slashes or force to lowercase: Mapping of old to new URL after a site redesign, and let search engines know about it: A redirect doesn't change the URL in the browser, but it does change the URL before the request is fully processed by IIS. In the following example the URL is a friendly URL in the browser but the final URL seen by ASP.NET is not as friendly: Or you can use any part of the URL as a useful way by rewriting the URL. Again, the URL in the browser remains the same while the path or query string behind the scenes is changed: These are just some examples. Hopefully they clarify the difference between a rewrite and a redirect in URL Rewrite for IIS and help you with your URL Rewriting. Most of the system administrator is aware of the reverse proxy. It is a type of proxy server which fetches the resources from one or more computers on clients requests and send back to the client. In simple terms, it works as an intermediate server, which listens to clients query. Then requests to server bases of clients query and returns results to client sent by the server. This tutorial will help you to setup reverse proxy using IIS with URL rewrite and application request routing extension.We can configure reverse proxy in IIS using URL Rewrite module. This is similar to the mod_rewrite module in Apache. Before starting work make sure you have installed and enabled URL Rewrite module in IIS server.URL Rewrite Module is officially provided by IIS development tool to extend the functionality of IIS web server. It provides additional functionality to rewrite application URL. This helps to make clean and SEO friendly URLs.You can visit below URL and download and install URL rewrite IIS extension: also need Application Request Routing extension to install on your system. Visit the following URL to download the extension and install on your system. more details, visit our other article here.Let's start with the configuration of the reverse proxy. For this tutorial, I have created a dummy web application running on port 3000 using node.js. You can see the below screenshot of the web application.Now, open the IIS by typing "inetmgr" in run window. Select your website under sites in left side section. Now select "URL Rewrite" option.Now click on "Add Rule(s)..." in actions section on the right side. See below screenshot for this link.Now select Reverse Proxy under inbound and outbound section.The above option will open a window, Add the server name or IP address with port under inbound rules input box. This is the URL from where reverse proxy will server data on clients request.At this point, the reverse proxy setup has been done. Now access web site configured with IIS. You will see the backend application is accessible here. This is the reverse proxy in working.This is the reverse proxy in working. When you are changing the domain name for your website, you are definitely going to solve the migration problem. You can not just stop DNS on your old domain, because this will cause your indexed pages being deleted by search engines. The correct way is to tell the search engine that you have a new domain name now, which is when the user access an old URL, redirect it to the new URL. Take my blog as an example, my old domain is diaosbook.com, the new domain name is edi.wang. So basically for requests to the old diaosbook.com, such as: I need to redirect it to: Which is just replace the domain name and keep everything else in the URL. To implement this feature, we need to install the URL Rewrite module on IIS: For every website managed by IIS, it can assign URL rewrite or redirect rules individually. You can use both GUI and manually edit web.config to modify the rules. My configuration for migrating the domain name would be: The pattern is using a regular expression, to check if {HTTP_HOST} is equal to diaosbook.com. the {R:1} in the action means whatever is in the URL behind the domain name itself. We have two types: Redirect and Rewrite. Redirect will result in an HTTP 301, which will notify the search engine about the domain change, while Rewrite will just keep the HTTP status code, for example, you have a "/a/b/c.html" and rewrite into "/d.html", then Rewrite will just make it looks like you are accessing /d.html, and its content is output using c.html. If you have other rules, mind the order, they are being processed from top to bottom. You may refer to Microsoft documentation for more usage: Now, we can get a 301 redirection, the search engine will also update their index. After a couple of months, you can stop DNS on your old domain. The IIS team just released URL Rewrite v2.1. The blog post below details the changes introduced in this release. You can download the latest version from or from WebPI. Control response cacheability of URL Rewrite Rules URL Rewrite v7.1.1909 removed "HTTP_HOST" from the set of server variables that are cacheable. This meant that any URL Rewrite rule that referred to "HTTP_HOST" in the condition or whose action is a rewrite/redirect AND set the "HTTP_HOST" as part of its action was no longer kernel cacheable. The objective of this fix was prevent customers from being stuck in rewrite loops due to caching as there was no way for URL Rewrite to detect loops. However, this update removed the ability for customers to allow their responses to be kernel cacheable if they knew they didn't have any redirect loops. Introduction of a responseCacheDirective URL Rewrite rules can be explicitly marked as cacheable by the introduction of a new directive on the rule element- responseCacheDirective. The responseCacheDirective accepts four possible values: 1. Always: The response is always cacheable. 2. Never: The response is never cacheable 3. NotIfRuleMatched: The response is not cacheable if the rule matched. 4. Auto(default): URL rewrite determines the cache friendliness of the rule based on the server variables used in the rule. The risk of entering a redirect loop has not been mitigated and hence setting responseCacheDirective to always should only used when you can verify there are no redirect loops. What happens when you define multiple rules with different responseCacheDirective? URL rewrite tries to match an incoming URL to a set of rules sequentially. Each of the rules has three possible results as it is applied to an incoming URL: Unmatched, URL Matched, and Rule Matched in increasing degrees of matching. Rule Matched differs from URL Matched when the rule conditions are met in addition to URL being a match. The cacheability of the response is reconsidered with each rule, the initial state being a neutral state where URL rewrite will not instruct the kernel cache either way. If the current state changes to not cacheable, further rules are not considered for determining cacheability. In other words, a single rule among all the rules executed is enough to make the entire response uncacheable. This makes the ordering of the rules important in cases where the processing is stopped when a "Rule Matched" occurs. Consider the case where there is at least one rule that evaluates to "URL Matched" and the rule is set either as "Never" or "Auto" with cache unfriendly servers. If this rule is sequentially before the Rule that would be "Rule Matched", then it would cause the kernel cache to be disabled. If on the other hand the rule is skipped because it is after the "Rule Matched" rule, it would have no effect on the cacheability, the rule should at the minimum be "URL Matched". If "NotIfRuleMatched" is selected for the responseCacheDirective for a given rule, kernel caching for that response will be disabled if the entire rule is matched with URL and the conditions. Keep in mind that "NotIfRuleMatched" does not take into account the cache unfriendly server variables. This is also true for Never and Always, leaving Auto to be the only value where the existence of cache unfriendly server variables cause the kernel caching to be disabled. Preserve original URL encoding in URL Rewrite versions prior to v7.1.1980, when one tries to use UNENCODED_URL, URL Rewrite will encode it which may lead to double encoding if the original URL was already encoded This is in violation of section 2.4 of RFC3986, which says "Implementations must not percent-encode or decode the same string more than once, as decoding an already decoded string might lead to misinterpreting a percent data octet as the beginning of a percent-encoding, or vice versa in the case of percent-encoding an already percent-encoded string." It also made the use of UNENCODED_URL impractical, especially in reverse forwarder scenarios with ARR where the backend servers expect the URL to be passed unmodified. In v7.1.1980, we are adding a feature flag, useOriginalURLEncoding that allows you to turn off this non-compliant URL Encoding when set to true. The default behavior will remain unchanged (useOriginalURLEncoding is true by default). To further explain this, let's look at the example below where the incoming URL is 2fde/. In this example, the cooked representation of the URL IIS receives from HTTP.SYS is the URL once decoded /ab/de/. When Original URL Encoding is preserved (useOriginalURLEncoding == true), the UNENCODED_URL server variable is computed by encoding the incoming URL, which leads to the double encoding ab%252f. After turning off the non-compliant behavior (useOriginalURLEncoding = false), the UNENCODED_URL is now just the incoming URL. A more common way of using URL Rewrite is with Back-References where {R:0} represents the entire part of the URL that was matched for a rule and {R:n} represents the parts of the URL that matched to a specific part of the regular expression which is enclosed in parentheses. If there are more than one part of the RE that was enclosed in parentheses, n denotes the order within where 1

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