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### ***Rocky Enterprise Linux 9.2 Manual Pages on command 'OSSL\_parse\_url.3ossl'***

***\$ man OSSL\_parse\_url.3ossl***

OSSL\_HTTP\_PARSE\_URL(3ossl)      OpenSSL      OSSL\_HTTP\_PARSE\_URL(3ossl)

#### NAME

OSSL\_HTTP\_adapt\_proxy, OSSL\_parse\_url, OSSL\_HTTP\_parse\_url,

OCSP\_parse\_url - http utility functions

#### SYNOPSIS

```
#include <openssl/http.h>
```

```
const char *OSSL_HTTP_adapt_proxy(const char *proxy, const char *no_proxy,  
                                const char *server, int use_ssl);
```

```
int OSSL_parse_url(const char *url, char **pscheme, char **puser, char **phost,  
                  char **pport, int *pport_num,  
                  char **ppath, char **pquery, char **pfrag);
```

```
int OSSL_HTTP_parse_url(const char *url,  
                       int *pssl, char **puser, char **phost,  
                       char **pport, int *pport_num,
```

```
char **ppath, char **pquery, char **pfrag);
```

The following functions have been deprecated since OpenSSL 3.0, and can be hidden entirely by defining `OPENSSL_API_COMPAT` with a suitable version value, see `openssl_user_macros(7)`:

```
int OCSP_parse_url(const char *url, char **phost, char **pport, char **ppath,  
                  int *pssl);
```

## DESCRIPTION

`OSSL_HTTP_adapt_proxy()` takes an optional proxy hostname `proxy` and returns it transformed according to the optional `no_proxy` parameter, `server`, `use_ssl`, and the applicable environment variable, as follows.

If `proxy` is `NULL`, take any default value from the `"http_proxy"` environment variable, or from `"https_proxy"` if `use_ssl` is nonzero. If this still does not yield a proxy hostname, take any further default value from the `"HTTP_PROXY"` environment variable, or from `"HTTPS_PROXY"` if `use_ssl` is nonzero. If `no_proxy` is `NULL`, take any default exclusion value from the `"no_proxy"` environment variable, or else from `"NO_PROXY"`. Return the determined proxy hostname unless the exclusion contains `server`. Otherwise return `NULL`.

`OSSL_parse_url()` parses its input string `url` as a URL of the form `"[scheme://][userinfo@]host[:port][/path][?query][#fragment]"` and splits it up into `scheme`, `userinfo`, `host`, `port`, `path`, `query`, and `fragment` components. The `host` (or `server`) component may be a DNS name or an IP address where IPv6 addresses should be enclosed in square brackets `"["` and `"]"`. The `port` component is optional and defaults to 0. If given, it must be in decimal form. If the `pport_num` argument is not `NULL` the integer value of the port number is assigned to `*pport_num` on success. The `path` component is also optional and defaults to `"/"`. Each non-`NULL` result pointer argument `pscheme`, `puser`, `phost`, `pport`, `ppath`, `pquery`, and `pfrag`, is assigned the respective url component. On

success, they are guaranteed to contain non-NULL string pointers, else NULL. It is the responsibility of the caller to free them using OPENSSL\_free(3). If pquery is NULL, any given query component is handled as part of the path. A string returned via \*ppath is guaranteed to begin with a "/" character. For absent scheme, userinfo, port, query, and fragment components an empty string is provided.

OSSL\_HTTP\_parse\_url() is a special form of OSSL\_parse\_url() where the scheme, if given, must be "http" or "https". If pssl is not NULL, \*pssl is assigned 1 in case parsing was successful and the scheme is "https", else 0. The port component is optional and defaults to 443 if the scheme is "https", else 80. Note that relative paths must be given with a leading "/", otherwise the first path element is interpreted as the hostname.

Calling the deprecated function OCSP\_parse\_url(url, host, port, path, ssl) is equivalent to OSSL\_HTTP\_parse\_url(url, ssl, NULL, host, port, NULL, path, NULL, NULL).

## RETURN VALUES

OSSL\_HTTP\_adapt\_proxy() returns NULL if no proxy is to be used, otherwise a constant proxy hostname string, which is either the proxy name handed in or an environment variable value.

OSSL\_parse\_url(), OSSL\_HTTP\_parse\_url(), and OCSP\_parse\_url() return 1 on success, 0 on error.

## SEE ALSO

OSSL\_HTTP\_transfer(3)

## HISTORY

OSSL\_HTTP\_adapt\_proxy(), OSSL\_parse\_url() and OSSL\_HTTP\_parse\_url() were added in OpenSSL 3.0. OCSP\_parse\_url() was deprecated in OpenSSL

3.0.

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