

**NAME**

LWP::ConnCache - Connection cache manager

**NOTE**

This module is experimental. Details of its interface is likely to change in the future.

**SYNOPSIS**

```
use LWP::ConnCache;
my $cache = LWP::ConnCache->new;
$cache->deposit($type, $key, $sock);
$sock = $cache->withdraw($type, $key);
```

**DESCRIPTION**

The `LWP::ConnCache` class is the standard connection cache manager for `LWP::UserAgent`.

The following basic methods are provided:

`$cache = LWP::ConnCache->new( %options )`

This method constructs a new `LWP::ConnCache` object. The only option currently accepted is 'total\_capacity'. If specified it initialize the total\_capacity option. It defaults to the value 1.

`$cache->total_capacity( [ $num_connections ] )`

Get/sets the number of connection that will be cached. Connections will start to be dropped when this limit is reached. If set to 0, then all connections are immediately dropped. If set to `undef`, then there is no limit.

`$cache->capacity($type, [ $num_connections ] )`

Get/set a limit for the number of connections of the specified type that can be cached. The `$type` will typically be a short string like "http" or "ftp".

`$cache->drop( [ $checker, [ $reason ] ] )`

Drop connections by some criteria. The `$checker` argument is a subroutine that is called for each connection. If the routine returns a TRUE value then the connection is dropped. The routine is called with (`$conn`, `$type`, `$key`, `$deposit_time`) as arguments.

Shortcuts: If the `$checker` argument is absent (or `undef`) all cached connections are dropped. If the `$checker` is a number then all connections untouched that the given number of seconds or more are dropped. If `$checker` is a string then all connections of the given type are dropped.

The `$reason` argument is passed on to the `dropped()` method.

`$cache->prune`

Calling this method will drop all connections that are dead. This is tested by calling the `ping()` method on the connections. If the `ping()` method exists and returns a FALSE value, then the connection is dropped.

`$cache->get_types`

This returns all the 'type' fields used for the currently cached connections.

`$cache->get_connections( [ $type ] )`

This returns all connection objects of the specified type. If no type is specified then all connections are returned. In scalar context the number of cached connections of the specified type is returned.

The following methods are called by low-level protocol modules to try to save away connections and to get them back.

`$cache->deposit($type, $key, $conn)`

This method adds a new connection to the cache. As a result other already cached connections might be dropped. Multiple connections with the same `$type/$key` might added.

`$conn = $cache->withdraw($type, $key)`

This method tries to fetch back a connection that was previously deposited. If no cached connection with the specified `$type/$key` is found, then `undef` is returned. There is not guarantee that a deposited connection can be withdrawn, as the cache manger is free to drop connections at any time.

The following methods are called internally. Subclasses might want to override them.

`$conn->enforce_limits([$type])`

This method is called with after a new connection is added (deposited) in the cache or capacity limits are adjusted. The default implementation drops connections until the specified capacity limits are not exceeded.

`$conn->dropping($conn_record, $reason)`

This method is called when a connection is dropped. The record belonging to the dropped connection is passed as the first argument and a string describing the reason for the drop is passed as the second argument. The default implementation makes some noise if the `$LWP::ConnCache::DEBUG` variable is set and nothing more.

## SUBCLASSING

For specialized cache policy it makes sense to subclass `LWP::ConnCache` and perhaps override the *deposit()*, *enforce\_limits()* and *dropping()* methods.

The object itself is a hash. Keys prefixed with `cc_` are reserved for the base class.

## SEE ALSO

[LWP::UserAgent](#)

## COPYRIGHT

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