1 APR::IpSubnet - Perl API for accessing APRs ip_subnet structures
1.1 Synopsis

use APR::IpSubnet ();

my $ipsub = APR::IpSubnet->new($pool, "127.0.0.1");
$ok = $ipsub->test($sock_addr);

1.2 Description

APR::IpSubnet object represents a range of IP addresses (IPv4/IPv6). A socket connection can be matched against this range to test whether the IP it’s coming from is inside or outside of this range.

1.3 API

APR::IpSubnet provides the following functions and/or methods:

1.3.1 new

Create an IP subnet representation object

$ipsubnet = APR::IpSubnet->new($pool, $ip);
$ipsubnet = APR::IpSubnet->new($pool, $ip, $mask_or_numbits);

- **obj**: APR::IpSubnet (class name)
- **arg1**: $pool (APR::Pool object)
- **arg2**: $ip (string)

  IP address in one of the two formats: IPv4 (e.g. "127.0.0.1") or IPv6 (e.g. "::1"). IPv6 addresses are accepted only if APR has the IPv6 support enabled.

- **opt arg3**: $mask_or_numbits (string)

  An optional IP mask (e.g. "255.0.0.0") or number of bits (e.g. "15").

  If none provided, the default is not to mask off.

- **ret**: $ret (APR::IpSubnet object)

  The IP-subnet object

- **except**: APR::Error
- **since**: 2.0.00
1.3.2 test

Test the IP address in the socket address object against a pre-built ip-subnet representation.

```perl
$ret = $ipsub->test($sockaddr);
```

- **obj:** $ipsub ([APR::IpSubnet object])
  - The ip-subnet representation
- **arg1:** $sockaddr ([APR::SockAddr object])
  - The socket address to test
- **ret:** $ret (boolean)
  - true if the socket address is within the subnet, false otherwise
- **since:** 2.0.00

This method is used for testing whether or not an address is within a subnet. It’s used by module mod_access to check whether the client IP fits into the IP range, supplied by Allow/Deny directives.

Example:

Allow accesses only from the localhost (IPv4):

```perl
use APR::IpSubnet ();
use Apache2::Connection ();
use Apache2::RequestRec ();
my $ipsub = APR::IpSubnet->new($r->pool, "127.0.0.1");
ok $ipsub->test($r->connection->remote_addr);
```

1.4 See Also

mod_perl 2.0 documentation.

1.5 Copyright

mod_perl 2.0 and its core modules are copyrighted under The Apache Software License, Version 2.0.

1.6 Authors

The mod_perl development team and numerous contributors.
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