Reverse DNS lookup in perl

Asked 16 years, 3 months ago Modified 4 years, 1 month ago Viewed 31k times



How do I perform a reverse DNS lookup, that is how do I resolve an IP address to its DNS hostname in Perl?

13



perl ip lookup nslookup reverse-dns

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If you need more detailed DNS info use the <u>Net::DNS</u> module, here is an example:

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use Net::DNS;
my \$res = Net::DNS::Resolver->new;

create the reverse lookup DNS name (note that the oc need to be reversed).
my \$IP = "209.85.173.103";
my \$target_IP = join('.', reverse split(/\./, \$IP)).".

my \$query = \$res->query("\$target_IP", "PTR");

if (\$query) {

```
foreach my $rr ($query->answer) {
    next unless $rr->type eq "PTR";
    print $rr->rdatastr, "\n";
  }
} else {
 warn "query failed: ", $res->errorstring, "\n";
}
```

Original Source EliteHackers.info, more details there as well.

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answered Sep 17, 2008 at 17:32



Jeff **6,707** • 5 • 29 • 33



gethostbyaddr and similar calls. See

http://perldoc.perl.org/functions/gethostbyaddr.html

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answered Sep 17, 2008 at 17:15



JBB

4.841 • 3 • 26 • 26

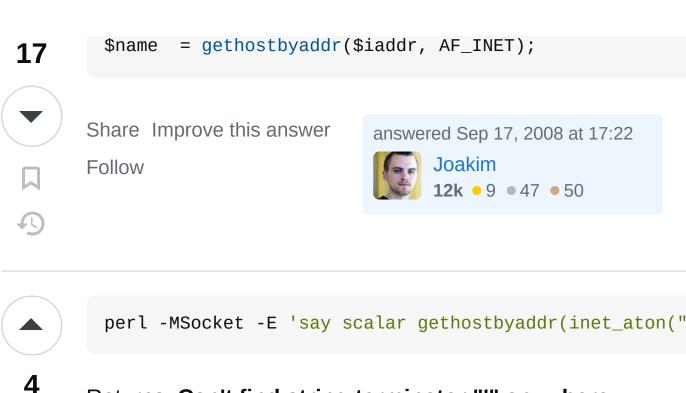








```
use Socket;
$iaddr = inet_aton("127.0.0.1"); # or whatever address
```



A Returns: Can't find string terminator "" anywhere before EOF at -e line 1.

perl -MSocket -E "say scalar gethostbyaddr(inet_aton(\
AF_INET)"

Returns: box250.bluehost.com

I have to change the line to use double quotes and then escape out the quotes around the IP address

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answered Oct 9, 2012 at 23:51

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John Boone
41 • 2

1 That's probably because you're using cmd.exe under windows. – spacebat Jun 13, 2013 at 4:49



one-liner:



perl -MSocket -E 'say scalar gethostbyaddr(inet_aton("



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answered Sep 3, 2009 at 13:29



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There may be an easier way, but for IPv4, if you can perform ordinary DNS lookups, you can always construct the reverse query yourself. For the IPv4 address A.B.C.D, look up any PTR records at D.C.B.A.in-addr.arpa. For IPv6, you take the 128 hex nibbles and flip them around and append ipv6.arpa. and do the same thing.



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answered Sep 17, 2008 at 17:17



nsayer 17k ● 4 ● 36 ● 52



If gethostbyaddr doesn't fit your needs, <u>Net::DNS</u> is more flexible.





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answered Sep 17, 2008 at 17:22





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This might be useful...









```
$ip = "XXX.XXX.XXX.XXX" # IPV4 address.
my @numbers = split (/\./, $ip);
if (scalar(@numbers) != 4)
{
    print "$ip is not a valid IP address.\n";
    next;
}
my $ip_addr = pack("C4", @numbers);
# First element of the array returned by gethostbyaddr
my ($name) = (gethostbyaddr($ip_addr, 2))[0];
```

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answered Sep 18, 2008 at 22:25



Jagmal 5,966 • 9 • 37 • 35