

Reverse DNS lookup in perl

Asked 16 years, 3 months ago Modified 4 years, 1 month ago

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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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asked Sep 17, 2008 at 17:14



Joakim

12k ● 9 ● 47 ● 50

8 Answers

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If you need more detailed DNS info use the [Net::DNS](#) 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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edited Sep 18, 2008 at 17:12

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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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JBB

4,841 ● 3 ● 26 ● 26



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

17

```
$name = gethostbyaddr($iaddr, AF_INET);
```



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answered Sep 17, 2008 at 17:22



Joakim

12k ● 9 ● 47 ● 50



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

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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



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:

2

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



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answered Sep 3, 2009 at 13:29



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[Kai Carver](#)

2,288 ● 29 ● 23



1



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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[nsayer](#)

17k ● 4 ● 36 ● 52



If gethostbyaddr doesn't fit your needs, [Net::DNS](#) is more flexible.

1



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answered [Sep 17, 2008 at 17:22](#)

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This might be useful...

0



```
$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

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Jagmal

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