UAT for DNS

for

DNS project for NRBGLOBAL BANK

Submitted By

BDCOM Online Limited

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UAT FOR DNS

The Domain Name System (**DNS**) is a standard technology for managing the names of Web sites and other Internet domains. DNS is an Internet service that translates domain names into IP addresses. Because domain names (example - robi.com.bd) are alphabetic, they're easier to remember. The Internet however, is really based on IP addresses. Every time you use a domain name, therefore, a DNS service must translate the name into the corresponding IP address. For example, the domain name ns1.nrbglobalbank.com might translate to 103.19.36.1.

Reverse DNS lookup (also known as rDNS) is a process to determine the hostname associated with a given IP address.Typically, the DNS is used to determine what IP address is associated with a given hostname; so to reverse resolve a known IP address is to lookup what the associated hostname for it. A reverse lookup is often referred to simply as reverse resolving, or more specifically reverse DNS lookups.The most common uses of the reverse DNS are:

1. Anti-spam
2. Network troubleshooting
3. Avoid spammers and phishers using a forward confirmed reverse DNS etc

The DNS system is, in fact, its own network. If one DNS server doesn't know how to translate a particular domain name, it asks another one, and so on, until the correct IP address is returned.

There are various ways to do the testing DNS server resolution. The total procedure given below:

Objective	**Forward Traffic Test**:host is a simple utility for performing DNS lookups. It is normally used to convert names to IP addresses and vice versa. When no arguments or options are given, host prints a short summary of its command line arguments and options.
Test Procedure	host -vt any nrbglobalbank.com ns1.nrbglobalbank.com
Sample Output	Trying "nrbglobalbank.com" Using domain server: Name: ns1.nrbglobalbank.com Address: 10.66.1.251#53 Aliases: ;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 51047 ;; flags: qr aa rd ra; QUERY: 1, ANSWER: 8, AUTHORITY: 0, ADDITIONAL: 8 ;; QUESTION SECTION:

	;nrbglobalbank.com. IN ANY ;; ANSWER SECTION: nrbglobalbank.com. 3600 IN MX 10 mx2.nrbglobalbank.com. nrbglobalbank.com. 3600 IN MX 20 mx3.nrbglobalbank.com. nrbglobalbank.com. 3600 IN MX 20 mx4.nrbglobalbank.com. nrbglobalbank.com. 3600 IN A 192.195.77.245 nrbglobalbank.com. 3600 IN NS ns1.nrbglobalbank.com. nrbglobalbank.com. 3600 IN NS ns2.nrbglobalbank.com. nrbglobalbank.com. 3600 IN NS ns.nrbglobalbank.com. nrbglobalbank.com. 3600 IN SOA ns.nrbglobalbank.com. root.nrbglobalbank.com. 2016042601 3600 1800 1209600 3600 ;; ADDITIONAL SECTION: mx2.nrbglobalbank.com. 3600 IN A 120.50.11.38 mx3.nrbglobalbank.com. 3600 IN A 120.50.11.33 mx4.nrbglobalbank.com. 3600 IN A 120.50.11.34 ns.nrbglobalbank.com. 3600 IN A 10.66.1.254 ns1.nrbglobalbank.com. 3600 IN A 10.66.1.251 ns1.nrbglobalbank.com. 3600 IN A 103.19.36.1 ns2.nrbglobalbank.com. 3600 IN A 103.19.36.254 ns2.nrbglobalbank.com. 3600 IN A 10.66.1.252 Received 333 bytes from 10.66.1.251#53 in 0 ms
Applicable Server	103.19.36.1,103.19.36.254
Original Output	root@ns1:~# host -vt any nrbglobalbank.com ns1.nrbglobalbank.com Trying "nrbglobalbank.com" Using domain server: Name: ns1.nrbglobalbank.com Address: 10.66.1.251#53 Aliases: ;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 12978 ;; flags: qr aa rd ra; QUERY: 1, ANSWER: 8, AUTHORITY: 0, ADDITIONAL: 8 ;; QUESTION SECTION: ;nrbglobalbank.com. IN ANY ;; ANSWER SECTION: nrbglobalbank.com. 3600 IN MX 20 mx4.nrbglobalbank.com. nrbglobalbank.com. 3600 IN MX 10 mx2.nrbglobalbank.com. nrbglobalbank.com. 3600 IN MX 20 mx3.nrbglobalbank.com. nrbglobalbank.com. 3600 IN A 192.195.77.245 nrbglobalbank.com. 3600 IN NS ns2.nrbglobalbank.com. nrbglobalbank.com. 3600 IN NS ns1.nrbglobalbank.com. nrbglobalbank.com. 3600 IN NS ns.nrbglobalbank.com.

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nrbglobalbank.com.      3600    IN      SOA     ns.nrbglobalbank.com.
root.nrbglobalbank.com. 2016042601 3600 1800 1209600 3600

;; ADDITIONAL SECTION:
mx2.nrbglobalbank.com.  3600    IN      A       120.50.11.38
mx3.nrbglobalbank.com.  3600    IN      A       120.50.11.33
mx4.nrbglobalbank.com.  3600    IN      A       120.50.11.34
ns.nrbglobalbank.com.   3600    IN      A       10.66.1.254
ns1.nrbglobalbank.com.  3600    IN      A       10.66.1.251
ns1.nrbglobalbank.com.  3600    IN      A       103.19.36.1
ns2.nrbglobalbank.com.  3600    IN      A       103.19.36.254
ns2.nrbglobalbank.com.  3600    IN      A       10.66.1.252

Received 333 bytes from 10.66.1.251#53 in 1 ms
root@ns2:~# host -vt any nrbglobalbank.com ns1.nrbglobalbank.com
Trying "nrbglobalbank.com"
Using domain server:
Name: ns1.nrbglobalbank.com
Address: 10.66.1.251#53
Aliases:

;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 29133
;; flags: qr aa rd ra; QUERY: 1, ANSWER: 8, AUTHORITY: 0, ADDITIONAL: 8

;; QUESTION SECTION:
;nrbglobalbank.com.             IN      ANY

;; ANSWER SECTION:
nrbglobalbank.com.      3600    IN      MX      10 mx2.nrbglobalbank.com.
nrbglobalbank.com.      3600    IN      MX      20 mx3.nrbglobalbank.com.
nrbglobalbank.com.      3600    IN      MX      20 mx4.nrbglobalbank.com.
nrbglobalbank.com.      3600    IN      A       192.195.77.245
nrbglobalbank.com.      3600    IN      NS      ns.nrbglobalbank.com.
nrbglobalbank.com.      3600    IN      NS      ns2.nrbglobalbank.com.
nrbglobalbank.com.      3600    IN      NS      ns1.nrbglobalbank.com.
nrbglobalbank.com.      3600    IN      SOA     ns.nrbglobalbank.com.
root.nrbglobalbank.com. 2016042601 3600 1800 1209600 3600

;; ADDITIONAL SECTION:
mx2.nrbglobalbank.com.  3600    IN      A       120.50.11.38
mx3.nrbglobalbank.com.  3600    IN      A       120.50.11.33
mx4.nrbglobalbank.com.  3600    IN      A       120.50.11.34
ns.nrbglobalbank.com.   3600    IN      A       10.66.1.254
ns1.nrbglobalbank.com.  3600    IN      A       103.19.36.1
ns1.nrbglobalbank.com.  3600    IN      A       10.66.1.251
ns2.nrbglobalbank.com.  3600    IN      A       10.66.1.252
ns2.nrbglobalbank.com.  3600    IN      A       103.19.36.254
```

	Received 333 bytes from 10.66.1.251#53 in 1 ms
Result	Ok
Remarks	Pass
Signature BDCOM	
Signature NRBGLOBALBANK	

Objective	**Forward Traffic Test** :To perform a reverse lookup
Test Procedure	**host –vt ptr** 103.19.36.1 **ns1.nrbglobalbank.com**
Sample Output	root@ns1:~# host -vt ptr 103.19.36.1 ns1.nrbglobalbank.com Trying "1.36.19.103.in-addr.arpa" Using domain server: Name: ns1.nrbglobalbank.com Address: 10.66.1.251#53 Aliases: ;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 32861 ;; flags: qr aa rd ra; QUERY: 1, ANSWER: 1, AUTHORITY: 3, ADDITIONAL: 5 ;; QUESTION SECTION: ;1.36.19.103.in-addr.arpa. IN PTR ;; ANSWER SECTION: 1.36.19.103.in-addr.arpa. 3600 IN PTR ns1.nrbglobalbank.com. ;; AUTHORITY SECTION: 36.19.103.in-addr.arpa. 3600 IN NS ns2.nrbglobalbank.com. 36.19.103.in-addr.arpa. 3600 IN NS ns1.nrbglobalbank.com. 36.19.103.in-addr.arpa. 3600 IN NS ns.nrbglobalbank.com. ;; ADDITIONAL SECTION: ns.nrbglobalbank.com. 3600 IN A 10.66.1.254 ns1.nrbglobalbank.com. 3600 IN A 10.66.1.251 ns1.nrbglobalbank.com. 3600 IN A 103.19.36.1 ns2.nrbglobalbank.com. 3600 IN A 103.19.36.254 ns2.nrbglobalbank.com. 3600 IN A 10.66.1.252

	Received 206 bytes from 10.66.1.251#53 in 0 ms
Applicable Server	103.19.36.1, 103.19.36.254
Original Output	root@ns1:~# host -vt ptr 103.19.36.1 ns1.nrbglobalbank.com Trying "1.36.19.103.in-addr.arpa" Using domain server: Name: ns1.nrbglobalbank.com Address: 10.66.1.251#53 Aliases: ;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 32861 ;; flags: qr aa rd ra; QUERY: 1, ANSWER: 1, AUTHORITY: 3, ADDITIONAL: 5 ;; QUESTION SECTION: ;1.36.19.103.in-addr.arpa. IN PTR ;; ANSWER SECTION: 1.36.19.103.in-addr.arpa. 3600 IN PTR ns1.nrbglobalbank.com. ;; AUTHORITY SECTION: 36.19.103.in-addr.arpa. 3600 IN NS ns2.nrbglobalbank.com. 36.19.103.in-addr.arpa. 3600 IN NS ns1.nrbglobalbank.com. 36.19.103.in-addr.arpa. 3600 IN NS ns.nrbglobalbank.com. ;; ADDITIONAL SECTION: ns.nrbglobalbank.com. 3600 IN A 10.66.1.254 ns1.nrbglobalbank.com. 3600 IN A 10.66.1.251 ns1.nrbglobalbank.com. 3600 IN A 103.19.36.1 ns2.nrbglobalbank.com. 3600 IN A 103.19.36.254 ns2.nrbglobalbank.com. 3600 IN A 10.66.1.252 Received 206 bytes from 10.66.1.251#53 in 0 ms root@ns2:~# host -vt ptr 103.19.36.254 ns2.nrbglobalbank.com Trying "254.36.19.103.in-addr.arpa" Using domain server: Name: ns2.nrbglobalbank.com Address: 103.19.36.254#53 Aliases: ;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 44441 ;; flags: qr aa rd ra; QUERY: 1, ANSWER: 1, AUTHORITY: 3, ADDITIONAL: 5 ;; QUESTION SECTION: ;254.36.19.103.in-addr.arpa. IN PTR ;; ANSWER SECTION: 254.36.19.103.in-addr.arpa. 3600 IN PTR ns2.nrbglobalbank.com.

	;; AUTHORITY SECTION: 36.19.103.in-addr.arpa. 3600 IN NS ns2.nrbglobalbank.com. 36.19.103.in-addr.arpa. 3600 IN NS ns.nrbglobalbank.com. 36.19.103.in-addr.arpa. 3600 IN NS ns1.nrbglobalbank.com. ;; ADDITIONAL SECTION: ns.nrbglobalbank.com. 3600 IN A 10.66.1.254 ns1.nrbglobalbank.com. 3600 IN A 10.66.1.251 ns1.nrbglobalbank.com. 3600 IN A 103.19.36.1 ns2.nrbglobalbank.com. 3600 IN A 103.19.36.254 ns2.nrbglobalbank.com. 3600 IN A 10.66.1.252 Received 208 bytes from 103.19.36.254#53 in 4 ms
Result	ok
Remarks	Pass
Signature BDCOM	
Signature NRBGLOBALBANK	

Objective	**Forward Traffic Test** :Nslookup is a program to query Internet domain name servers. Nslookup has two modes: interactive and non-interactive. Interactive mode allows the user to query name servers for information about various hosts and domains or to print a list of hosts in a domain. Non-interactive mode is used to print just the name and requested information for a host or domain
Test Procedure	**root@ns1:~# nslookup** **> server ns1.nrbglobalbank.com** **Default server: ns1.nrbglobalbank.com** **Address: 10.66.1.251#53** **Default server: ns1.nrbglobalbank.com** **Address: 103.19.36.1#53**
Sample Output	
Applicable Server	
Original Output	
Result	
Remarks	
Signature BDCOM	
Signature ROBI	

Objective	**Forward Traffic Test** :To perform a reverse lookup
Test Procedure	**nslookup** **> server 202.134.13.4**

	Default server: 202.134.13.4 **Address: 202.134.13.4#53** **> set type=any** **> 202.134.12.13**
Sample Output	Server: 202.134.13.4 Address: 202.134.13.4#53 13.12.134.202.in-addr.arpa name = ns2.aktel.com. 13.12.134.202.in-addr.arpa name = ns2.aktelbd.com.
Applicable Server	10.101.11.23, 10.101.11.24, 10.16.49.58
Original Output	**root@dns1:/# nslookup** **> server 10.101.11.23** **Default server: 10.101.11.23** **Address: 10.101.11.23#53** **> set type=any** > 202.134.12.13 Server: 10.101.11.23 Address: 10.101.11.23#53 13.12.134.202.in-addr.arpa name = ns2.aktelbd.com. 13.12.134.202.in-addr.arpa name = ns2.aktel.com.
Result	Pass
Remarks	
Signature BDCOM	
Signature ROBI	

Objective	**Forward Traffic Test** :dig (*domain information groper*) is a flexible tool for interrogating DNS name servers. It performs DNS lookups and displays the answers that are returned from the name server(s) that were queried. Most DNS administrators use dig to troubleshoot DNS problems because of its flexibility, ease of use and clarity of output. Other lookup tools tend to have less functionality than dig.
Test Procedure	**dig robi.com.bd**
Sample Output	; <<>>DiG 9.7.3 <<>> robi.com.bd ;; global options: +cmd ;; Got answer: ;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 53635 ;; flags: qrrdra; QUERY: 1, ANSWER: 1, AUTHORITY: 3, ADDITIONAL: 3 ;; QUESTION SECTION: ;robi.com.bd. IN A

	;; ANSWER SECTION: robi.com.bd. 83897 IN A 202.134.12.106 ;; AUTHORITY SECTION: robi.com.bd. 76885 IN NS ns1.aktel.com. robi.com.bd. 76885 IN NS ns2.aktel.com. robi.com.bd. 76885 IN NS ns4.robibazar.com. ;; ADDITIONAL SECTION: ns1.aktel.com. 4885 IN A 202.134.13.4 ns2.aktel.com. 76885 IN A 202.134.12.13 ns4.robibazar.com. 77012 IN A 202.134.12.97 ;; Query time: 0 msec ;; SERVER: 210.4.77.180#53(210.4.77.180) ;; WHEN: Sun Aug 3 13:12:11 2014 ;; MSG SIZE rcvd: 166
Applicable Server	10.101.11.23, 10.101.11.24, 10.16.49.58
Original Output	root@dns3:~# dig yahoo.com ; <<>>DiG 9.8.4-rpz2+rl005.12-P1 <<>> yahoo.com ;; global options: +cmd ;; Got answer: ;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 9822 ;; flags: qrrdra; QUERY: 1, ANSWER: 3, AUTHORITY: 6, ADDITIONAL: 7 ;; QUESTION SECTION: ;yahoo.com. IN A ;; ANSWER SECTION: yahoo.com. 1800 IN A 98.139.183.24 yahoo.com. 1800 IN A 206.190.36.45 yahoo.com. 1800 IN A 98.138.253.109 ;; AUTHORITY SECTION: yahoo.com. 170788 IN NS ns2.yahoo.com. yahoo.com. 170788 IN NS ns6.yahoo.com. yahoo.com. 170788 IN NS ns4.yahoo.com. yahoo.com. 170788 IN NS ns5.yahoo.com. yahoo.com. 170788 IN NS ns3.yahoo.com. yahoo.com. 170788 IN NS ns1.yahoo.com. ;; ADDITIONAL SECTION: ns1.yahoo.com. 170788 IN A 68.180.131.16 ns2.yahoo.com. 170788 IN A 68.142.255.16

	ns3.yahoo.com. 170788 IN A 203.84.221.53 ns4.yahoo.com. 170788 IN A 98.138.11.157 ns5.yahoo.com. 170788 IN A 119.160.247.124 ns6.yahoo.com. 170788 IN A 121.101.144.139 ns6.yahoo.com. 1800 IN AAAA 2406:2000:108:4::1006 ;; Query time: 155 msec ;; SERVER: 10.101.11.23#53(10.101.11.23) ;; WHEN: Mon Sep 1 16:36:37 2014 ;; MSG SIZE rcvd: 307
Result	Pass
Remarks	
Signature BDCOM	
Signature ROBI	

Objective	**Forward Traffic Test** :Dns trace report
Test Procedure	**dig +trace robi.com.bd**
Sample Output	; <<>>DiG 9.7.3 <<>> +trace robi.com.bd ;; global options: +cmd . 508806 IN NS l.root-servers.net. . 508806 IN NS m.root-servers.net. . 508806 IN NS i.root-servers.net. . 508806 IN NS g.root-servers.net. . 508806 IN NS c.root-servers.net. . 508806 IN NS j.root-servers.net. . 508806 IN NS d.root-servers.net. . 508806 IN NS f.root-servers.net. . 508806 IN NS h.root-servers.net. . 508806 IN NS b.root-servers.net. . 508806 IN NS e.root-servers.net. . 508806 IN NS k.root-servers.net. . 508806 IN NS a.root-servers.net. ;; Received 496 bytes from 210.4.77.180#53(210.4.77.180) in 0 ms bd. 172800 IN NS surma.btcl.net.bd. bd. 172800 IN NS jamuna.btcl.net.bd. bd. 172800 IN NS dns.bd. ;; Received 145 bytes from 2001:7fe::53#53(i.root-servers.net) in 217 ms robi.com.bd. 86400 IN NS ns2.aktel.com. robi.com.bd. 86400 IN NS ns1.aktel.com. ;; Received 106 bytes from 203.112.194.231#53(jamuna.btcl.net.bd) in 1 ms robi.com.bd. 86400 IN NS ns1.aktel.com.

	robi.com.bd. 86400 IN NS ns2.aktel.com. robi.com.bd. 86400 IN NS ns4.robibazar.com. ;; Received 166 bytes from 202.134.13.4#53(ns1.aktel.com) in 207 ms
Applicable Server	10.101.11.23, 10.101.11.24, 10.16.49.58
Original Output	root@dns2:~# dig +trace robi.com.bd ; <<>>DiG 9.8.4-rpz2+rl005.12-P1 <<>> +trace robi.com.bd ;; global options: +cmd . 510062 IN NS h.root-servers.net. . 510062 IN NS l.root-servers.net. . 510062 IN NS f.root-servers.net. . 510062 IN NS k.root-servers.net. . 510062 IN NS d.root-servers.net. . 510062 IN NS i.root-servers.net. . 510062 IN NS j.root-servers.net. . 510062 IN NS c.root-servers.net. . 510062 IN NS m.root-servers.net. . 510062 IN NS a.root-servers.net. . 510062 IN NS e.root-servers.net. . 510062 IN NS g.root-servers.net. . 510062 IN NS b.root-servers.net. ;; Received 496 bytes from 10.101.11.24#53(10.101.11.24) in 5 ms bd. 172800 IN NS surma.btcl.net.bd. bd. 172800 IN NS jamuna.btcl.net.bd. bd. 172800 IN NS dns.bd. ;; Received 145 bytes from 192.228.79.201#53(192.228.79.201) in 1735 ms robi.com.bd. 86400 IN NS ns1.aktel.com. robi.com.bd. 86400 IN NS ns2.aktel.com. ;; Received 90 bytes from 203.112.194.232#53(203.112.194.232) in 181 ms robi.com.bd. 86400 IN A 202.134.12.106 robi.com.bd. 86400 IN NS ns1.aktel.com. robi.com.bd. 86400 IN NS ns2.aktel.com. robi.com.bd. 86400 IN NS ns4.robibazar.com. ;; Received 166 bytes from 202.134.12.13#53(202.134.12.13) in 2 ms
Result	Pass
Remarks	
Signature BDCOM	
Signature ROBI	

Objective	**Forward Traffic Test** :Using DNS entry in local machine for name resolution

Test Procedure	**Ping google.com / Browsing**
Sample Output	Ping reply and successfully browsing
Applicable Server	10.101.11.23, 10.101.11.24, 10.16.49.58
Original Output	root@ntp1:~# ping www.google.com PING www.google.com (173.194.127.52) 56(84) bytes of data.
Result	Pass
Remarks	
Signature BDCOM	
Signature ROBI	

Objective	**Forward Traffic Test** :Using DNS entry in local machine for name resolution
Test Procedure	**nslookup** **> server ns1.robi.com.bd** **Default server: ns1.robi.com.bd** **Address: 202.134.13.4#53** **> set type=any** **> robi.com.bd**
Sample Output	Server: ns1.robi.com.bd Address: 202.134.13.4#53 robi.com.bd origin = ns1.aktel.com mail addr = hostmaster.robi.com.bd serial = 2014270701 refresh = 10800 retry = 3600 expire = 604800 minimum = 10800 robi.com.bd text = "v=spf1 mx ip4:202.134.12.68 ip4:202.134.12.69 mx:mail.robi.com.bd mx:mail.messaging.microsoft.com ~all mx:include:spf.protection.outlook.com ~all" robi.com.bd mail exchanger = 0 robi-com-bd.mail.protection.outlook.com. robi.com.bd mail exchanger = 10 mail.robi.com.bd. robi.com.bd mail exchanger = 20 ms14373886.msv1.invalid.outlook.com. Name: robi.com.bd Address: 202.134.12.106 robi.com.bdnameserver = ns4.robibazar.com. robi.com.bdnameserver = ns1.aktel.com. robi.com.bdnameserver = ns2.aktel.com.
Applicable Server	10.101.11.23, 10.101.11.24, 10.16.49.58
Original Output	root@ntp1:~# nslookup

	> server dns1.robi.com.bd Default server: dns1.robi.com.bd Address: 202.134.12.10#53 > set type=any > google.com Server: dns1.robi.com.bd Address: 202.134.12.10#53 Non-authoritative answer: google.com origin = ns1.google.com mail addr = dns-admin.google.com serial = 2014021800 refresh = 7200 retry = 1800 expire = 1209600 minimum = 300 google.com rdata_257 = \# 19 0005697373756573796D616E7465632E636F6D google.comnameserver = ns1.google.com. google.comnameserver = ns3.google.com. google.comnameserver = ns2.google.com. google.comnameserver = ns4.google.com. Authoritative answers can be found from: google.comnameserver = ns3.google.com. google.comnameserver = ns2.google.com. google.comnameserver = ns1.google.com. google.comnameserver = ns4.google.com. ns1.google.com internet address = 216.239.32.10 ns2.google.com internet address = 216.239.34.10 ns3.google.com internet address = 216.239.36.10 ns4.google.com internet address = 216.239.38.10
Result	Pass
Remarks	
Signature BDCOM	
Signature ROBI	

Objective	**Forward Traffic Test** :Count only dns query message
Test Procedure	**dnstopetho -Q**
Sample Output	Queries: 912 new, 20738 total Mon Aug 4 11:47:49 2014 Sources Count % cum% ---------- ---------- ------ ------ 210.4.77.180 4418 21.3 21.3

	119.40.80.70 3477 16.8 38.1 2403:4000:0:2::3 2766 13.3 51.4 210.4.73.118 2131 10.3 61.7 103.16.74.132 1140 5.5 67.2 103.16.72.2 1023 4.9 72.1 114.31.0.72 537 2.6 74.7 113.11.126.58 479 2.3 77.0 103.16.72.7 272 1.3 78.3 210.4.72.234 227 1.1 79.4 210.4.74.34 189 0.9 80.3 119.40.86.86 155 0.7 81.1 119.40.80.162 134 0.6 81.7 114.31.3.196 103 0.5 82.2 192.168.26.198 99 0.5 82.7 210.4.66.230 66 0.3 83.0 113.11.6.126 52 0.3 83.3 210.4.67.214 52 0.3 83.5 113.11.102.181 51 0.2 83.8 210.4.67.147 51 0.2 84.0
Applicable Server	10.101.11.23, 10.101.11.24, 10.16.49.58
Original Output	Queries: 0 new, 4 total Mon Sep 1 16:03:03 2014 Sources Count % cum% ---------- --------- ------ ------ 10.101.11.25 3 75.0 75.0 10.101.11.23 1 25.0 100.0 Queries: 0 new, 4 total Mon Sep 1 16:03:26 2014 Query Name Count % cum% ---------- --------- ------ ------ yahoo.com 1 25.0 25.0 google.com 1 25.0 50.0 prothom-alo.com 1 25.0 75.0 aktel.com 1 25.0 100.0
Result	Pass
Remarks	
Signature BDCOM	
Signature ROBI	

Objective	**IPV6 Compatibility Test** :

Test Procedure	vim /var/lib/named/etc/bind/named.conf.options
Sample Output	//acl "loopback_v6" { // listen-on-v6 { 2403:4000:0:2::3; ::1; }; // "robi_v6"; // "loopback_v6"; }; max-cache-size 30M; query-source address * port 53; query-source-v6 address * port 53;
Applicable Server	10.101.11.23, 10.101.11.24, 10.16.49.58

Original Output	root@dns1:~# vim /var/lib/named/etc/bind/named.conf.options
	};
	//acl "loopback_v6" {
	// ::1;
	//};
	
	options {
	directory "/var/cache/bind";
	
	// If there is a firewall between you and nameservers you want
	// to talk to, you may need to fix the firewall to allow multiple
	// ports to talk. See http://www.kb.cert.org/vuls/id/800113
	
	// If your ISP provided one or more IP addresses for stable
	// nameservers, you probably want to use them as forwarders.
	// Uncomment the following block, and insert the addresses replacing
	// the all-0's placeholder.
	
	// forwarders {
	// 0.0.0.0;
	// };
	
	allow-transfer { 10.101.11.23; 10.101.11.24; 10.16.49.58; 192.168.80.30;
	192.168.90.4; 202.134.12.13; 202.134.13.4; };
	datasize 100M;
	dump-file "named_dump.db";
	interface-interval 0;
	listen-on { 10.101.11.24; 202.134.12.58; 127.0.0.1; };
	// listen-on-v6 { 2403:4000:0:2::3; ::1; };
	allow-recursion {
	"robi_private";
	"robi_public";
	// "robi_v6";

	// "other_ROBI"; "loopback"; // "loopback_v6"; }; max-cache-size 30M; query-source address * port 53; query-source-v6 address * port 53; statistics-file "named.stats"; version "This is not the port you're looking for."; zone-statistics yes; recursive-clients 5000; };
Result	Passed
Remarks	
Signature BDCOM	
Signature ROBI	
Objective	TSIG key checking in dns named configuration file
Test Procedure	**cat /etc/bind/named.conf**
Sample Output	include "/etc/bind/robi_tsig.key";
Applicable Server	10.101.11.23, 10.101.11.24, 10.16.49.58

Original Output	root@dns1:~# cat /etc/bind/named.conf
	statistics-channels {
	inet 127.0.0.1 port 8053 allow { 127.0.0.1; 10.101.11.23; };
	};
	
	controls {
	inet * allow { localhost; } keys { rndc-key; };
	};
	
	include "/etc/bind/rndc.key";
	
	logging {
	category lame-servers { null; };
	};
	
	include "/etc/bind/named.conf.options";
	include "/etc/bind/named.conf.local";
	#include "/etc/bind/named.conf.default-zones";
	#zone transfer key
	include "/etc/bind/robi_tsig.key";
	root@dns1:~# cat /etc/bind/robi_tsig.key
	key "robi_tsig-key" {
	algorithm HMAC-MD5;

	secret
	"U1fkYr5QELlGBF5hrqt7P6x8tAw9+D5miMq2noOITz2fLN93B1YVr+NY0MxqNc9tdT
	xQSzbC HpYKG8Ga/qKTYg==";
	};
	
	server 10.101.11.22 {
	keys { robi_tsig-key; };
	};

Result	Pass
Remarks	
Signature BDCOM	
Signature ROBI	