

Tugas Jaringan Komputer



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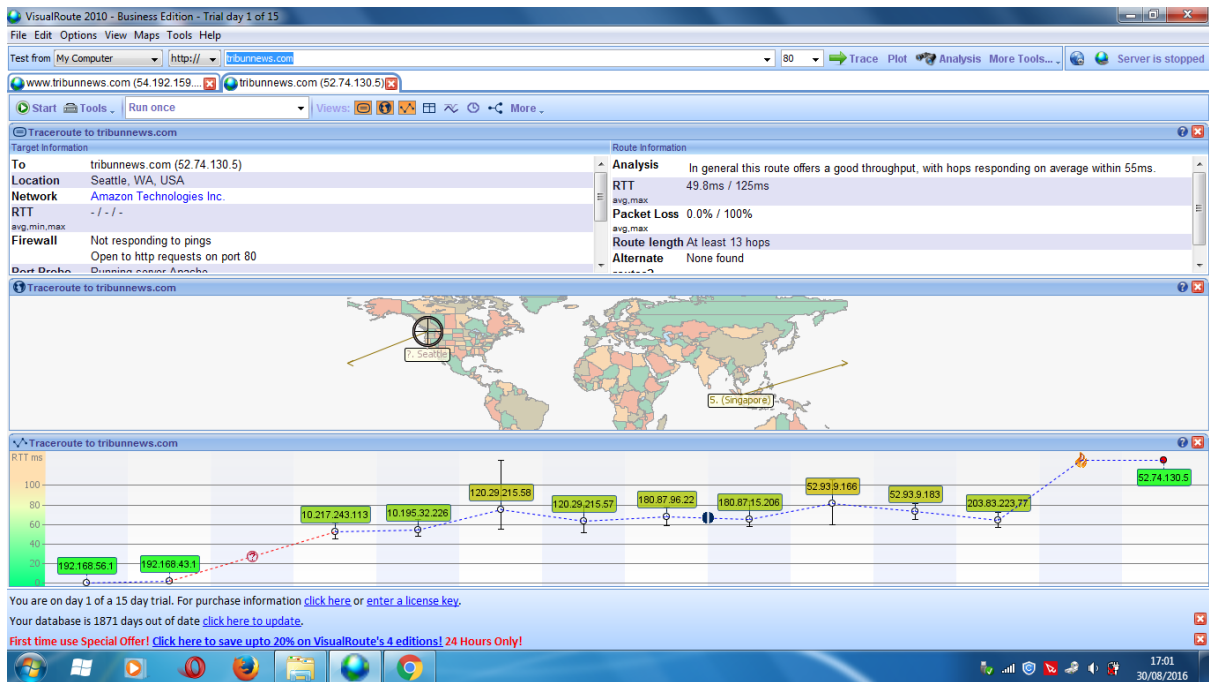
Jurusan Sistem Komputer

Fakultas Ilmu Komputer

Universitas Sriwijaya

2016

Website Tribunnews.com



Network IP address lookup:

Whois query for **162.168.56.1...**

Results returned from **whois.arin.net**:

NetRange: 162.160.0.0 - 162.191.255.255
CIDR: 162.160.0.0/11
NetName: CORE
NetHandle: NET-162-160-0-0-1
Parent: NET162 (NET-162-0-0-0-0)
NetType: Direct Allocation
OriginAS: AS21928
Organization: T-Mobile USA, Inc. (TMOBI)
RegDate: 2012-06-13
Updated: 2012-06-13
Ref: <https://whois.arin.net/rest/net/NET-162-160-0-0-1>
OrgName: T-Mobile USA, Inc.
OrgId: TMOBI
Address: 12920 SE 38th Street
City: Bellevue
StateProv: WA
PostalCode: 98006
Country: US
RegDate: 2003-01-02
Updated: 2014-09-23
Ref: <https://whois.arin.net/rest/org/TMOBI>
OrgTechHandle: DNSAD11-ARIN
OrgTechName: DNS Administrators

OrgTechPhone: +1-888-662-4662
OrgTechEmail: ARINtechcontact@t-mobile.com
OrgTechRef: <https://whois.arin.net/rest/poc/DNSAD11-ARIN>

OrgAbuseHandle: ABUSE4857-ARIN
OrgAbuseName: abuse
OrgAbusePhone: +1-888-662-4662
OrgAbuseEmail: abuse@t-mobile.com
OrgAbuseRef: <https://whois.arin.net/rest/poc/ABUSE4857-ARIN>

Network IP address lookup:
Whois query for 192.168.43.1...
Results returned from whois.arin.net:

NetRange: 192.168.0.0 - 192.168.255.255
CIDR: 192.168.0.0/16
NetName: PRIVATE-ADDRESS-CBLK-RFC1918-IANA-RESERVED
NetHandle: NET-192-168-0-0-1
Parent: NET192 (NET-192-0-0-0-0)
NetType: IANA Special Use
OriginAS:
Organization: Internet Assigned Numbers Authority (IANA)
RegDate: 1994-03-15
Updated: 2013-08-30

Network IP address lookup:
Whois query for **10.217.243.113...**
Results returned from **whois.arin.net:**

NetRange: 10.0.0.0 - 10.255.255.255
CIDR: 10.0.0.0/8
NetName: PRIVATE-ADDRESS-ABLK-RFC1918-IANA-RESERVED
NetHandle: NET-10-0-0-0-1
Parent: ()
NetType: IANA Special Use
OriginAS:
Organization: Internet Assigned Numbers Authority (IANA)
RegDate:
Updated: 2013-08-30

Network IP address lookup:Whois query for **10.195.13.226...**Results returned from **whois.arin.net**:

NetRange: 10.0.0.0 - 10.255.255.255
CIDR: 10.0.0.0/8
NetName: PRIVATE-ADDRESS-ABLK-RFC1918-IANA-RESERVED
NetHandle: NET-10-0-0-0-1
Parent: ()
NetType: IANA Special Use
OriginAS:
Organization: Internet Assigned Numbers Authority (IANA)
RegDate:
Updated: 2013-08-30

TraceRoute from Network-Tools.com to 120.29.215.58

Hop	(ms)	(ms)	(ms)	IP Address	Host name
1	1	0	0	206.123.64.221	-
2	1	1	1	129.250.202.253	xe-0-4-0-12.r01.dllstx04.us.bb.gin.ntt.net
3	1	1	1	129.250.2.208	ae-9.r07.dllstx09.us.bb.gin.ntt.net
4	3	2	1	129.250.9.194	ae-0.tata-communications.dllstx09.us.bb.gin.ntt.net
5	218	217	217	66.110.57.21	-
6	220	220	220	66.110.59.2	if-ae-2-2.tcore2.lvw-los-angeles.as6453.net
7	217	214	214	180.87.15.25	if-ae-7-2.tcore2.svw-singapore.as6453.net
8	212	213	212	180.87.96.21	if-ae-20-2.tcore1.svq-singapore.as6453.net
9	211	211	211	120.29.215.58	-

Trace complete

Network IP address lookup:Whois query for **120.29.215.58..**

NetRange: 120.0.0.0 - 120.255.255.255
CIDR: 120.0.0.0/8
NetName: APNIC-120
NetHandle: NET-120-0-0-0-1
Parent: ()
NetType: Allocated to APNIC
OriginAS:
Organization: Asia Pacific Network Information Centre (APNIC)
RegDate: 2007-01-17
Updated: 2010-07-30
Comment: This IP address range is not registered in the ARIN database.
Comment: For details, refer to the APNIC Whois Database via
Comment: WHOIS.APNIC.NET or <http://wq.apnic.net/apnic-bin/whois.pl>

Comment: ** IMPORTANT NOTE: APNIC is the Regional Internet Registry
Comment: for the Asia Pacific region. APNIC does not operate networks
Comment: using this IP address range and is not able to investigate
Comment: spam or abuse reports relating to these addresses. For more
Comment: help, refer to http://www.apnic.net/apnic-info/whois_search2/abuse-and-spamming
Ref: <https://whois.arin.net/rest/net/NET-120-0-0-1>

ResourceLink: <http://wq.apnic.net/whois-search/static/search.html>

ResourceLink: whois.apnic.net

OrgName: Asia Pacific Network Information Centre

OrgId: APNIC

Address: PO Box 3646

City: South Brisbane

StateProv: QLD

PostalCode: 4101

Country: AU

RegDate:

Updated: 2012-01-24

Ref: <https://whois.arin.net/rest/org/APNIC>

120.29.215.57 is from India (IN) in region Southern and Eastern Asia

Input: 120.29.215.57

canonical name: ix-ae-24-0.tcore1.svq-singapore.as6453.net

Registered Domain: as6453.net

TraceRoute from Network-Tools.com to 120.29.215.57 [ix-ae-24-0.tcore1.svq-singapore.as6453.net]

Hop	(ms)	(ms)	(ms)	IP Address	Host name
1	1	0	0	206.123.64.221	-
2	1	1	1	129.250.202.253	xe-0-4-0-12.r01.dllstx04.us.bb.gin.ntt.net
3	1	1	2	129.250.2.208	ae-9.r07.dllstx09.us.bb.gin.ntt.net
4	1	1	1	129.250.9.194	ae-0.tata-communications.dllstx09.us.bb.gin.ntt.net
5	218	218	218	66.110.57.21	-
6	220	220	221	66.110.59.2	if-ae-2-2.tcore2.lvw-los-angeles.as6453.net
7	214	214	214	180.87.15.25	if-ae-7-2.tcore2.svw-singapore.as6453.net
8	216	216	216	120.29.215.57	ix-ae-24-0.tcore1.svq-singapore.as6453.net

Trace complete

180.87.96.22 is from India (IN) in region Southern and Eastern Asia

Input: 180.87.96.22

canonical name: if-ae-20-2.tcore2.svw-singapore.as6453.net

Registered Domain: as6453.net

TraceRoute from Network-Tools.com to 180.87.96.22 [if-ae-20-2.tcore2.svw-singapore.as6453.net]Hop (ms) (ms) (ms) IP Address Host name

1	1	0	0	206.123.64.233	-
2	1	2	1	129.250.202.253	xe-0-4-0-12.r01.dllstx04.us.bb.gin.ntt.net
3	1	1	1	129.250.2.208	ae-9.r07.dllstx09.us.bb.gin.ntt.net
4	1	1	1	129.250.9.194	ae-0.tata-communications.dllstx09.us.bb.gin.ntt.net
5	34	34	33	66.110.57.21	-
6	33	33	33	66.110.59.2	if-ae-2-2.tcore2.lvw-los-angeles.as6453.net
7	206	206	Timed out	180.87.96.22	if-ae-20-2.tcore2.svw-singapore.as6453.net

Trace complete

180.87.15.206 is from India (IN) in region Southern and Eastern Asia

TraceRoute from Network-Tools.com to 180.87.15.206

Hop	(ms)	(ms)	(ms)	IP Address	Host name
1	0	0	0	206.123.64.233	-
2	1	1	1	129.250.202.253	xe-0-4-0-12.r01.dllstx04.us.bb.gin.ntt.net
3	1	1	1	129.250.2.208	ae-9.r07.dllstx09.us.bb.gin.ntt.net
4	1	1	1	129.250.9.194	ae-0.tata-communications.dllstx09.us.bb.gin.ntt.net
5	219	218	219	66.110.57.21	-
6	220	220	221	66.110.59.2	if-ae-2-2.tcore2.lvw-los-angeles.as6453.net
7	214	214	214	180.87.15.25	if-ae-7-2.tcore2.svw-singapore.as6453.net
8	221	221	221	180.87.15.206	-

Trace complete

Network IP address lookup:

Whois query for **180.87.15.206**...

NetRange: 180.0.0.0 - 180.255.255.255

CIDR: 180.0.0.0/8

NetName: APNIC-180

NetHandle: NET-180-0-0-1

Parent: ()

NetType: Allocated to APNIC

OriginAS:

Organization: Asia Pacific Network Information Centre (APNIC)

RegDate: 2009-04-30
Updated: 2010-07-30
Comment: This IP address range is not registered in the ARIN database.
Comment: For details, refer to the APNIC Whois Database via
Comment: WHOIS.APNIC.NET or <http://wq.apnic.net/apnic-bin/whois.pl>
Comment: **** IMPORTANT NOTE:** APNIC is the Regional Internet Registry
Comment: for the Asia Pacific region. APNIC does not operate networks
Comment: using this IP address range and is not able to investigate
Comment: spam or abuse reports relating to these addresses. For more
Comment: help, refer to http://www.apnic.net/apnic-info/whois_search2/abuse-and-spamming
Ref: <https://whois.arin.net/rest/net/NET-180-0-0-0-1>

Network IP address lookup:

Whois query for **52.93.9.183...**

Results returned from **whois.arin.net**:

NetRange: 52.84.0.0 - 52.95.255.255
CIDR: 52.84.0.0/14, 52.88.0.0/13
NetName: AT-88-Z
NetHandle: NET-52-84-0-0-1
Parent: NET52 (NET-52-0-0-0-0)
NetType: Direct Allocation
OriginAS:
Organization: Amazon Technologies Inc. (AT-88-Z)
RegDate: 1991-12-19
Updated: 2015-03-20
Ref: <https://whois.arin.net/rest/net/NET-52-84-0-0-1>

Network IP address lookup:

Whois query for **203.83.223.77...**

NetRange: 203.0.0.0 - 203.255.255.255
CIDR: 203.0.0.0/8
NetName: APNIC-203
NetHandle: NET-203-0-0-0-1
Parent: ()
NetType: Allocated to APNIC
OriginAS:
Organization: Asia Pacific Network Information Centre (APNIC)
RegDate: 1994-04-05
Updated: 2010-08-02
Comment: This IP address range is not registered in the ARIN database.
Comment: For details, refer to the APNIC Whois Database via
Comment: WHOIS.APNIC.NET or <http://wq.apnic.net/apnic-bin/whois.pl>
Comment: **** IMPORTANT NOTE:** APNIC is the Regional Internet Registry
Comment: for the Asia Pacific region. APNIC does not operate networks
Comment: using this IP address range and is not able to investigate

Comment: spam or abuse reports relating to these addresses. For more
Comment: help, refer to http://www.apnic.net/apnic-info/whois_search2/abuse-and-spamming
Ref: <https://whois.arin.net/rest/net/NET-203-0-0-0-1>

52.74.130.5 is from United States (US) in region North America
Input: 52.74.130.5
canonical name: ec2-52-74-130-5.ap-southeast-1.compute.amazonaws.com
Registered Domain: amazonaws.com

TraceRoute from Network-Tools.com to 52.74.130.5 [ec2-52-74-130-5.ap-southeast-1.compute.amazonaws.com]

Hop	(ms)	(ms)	(ms)	IP Address	Host name
1	1	0	0	206.123.64.233	-
2	1	2	1	129.250.202.253	xe-0-4-0-12.r01.dllstx04.us.bb.gin.ntt.net
3	1	1	1	129.250.6.128	ae-2.r23.dllstx09.us.bb.gin.ntt.net
4	39	39	40	129.250.4.154	ae-8.r23.snjsca04.us.bb.gin.ntt.net
5	37	39	52	129.250.2.182	ae-0.r22.snjsca04.us.bb.gin.ntt.net
6	216	216	217	129.250.3.49	ae-2.r20.sngpsi05.sg.bb.gin.ntt.net
7	226	217	215	129.250.3.147	ae-2.r00.sngpsi02.sg.bb.gin.ntt.net
8	228	207	208	116.51.17.46	ae-0.amazon.sngpsi02.sg.bb.gin.ntt.net

Domain Name: AMAZONAWS.COM

Registrar: MARKMONITOR INC.

Sponsoring Registrar IANA ID: 292

Whois Server: whois.markmonitor.com

Referral URL: <http://www.markmonitor.com>

Name Server: R1.AMAZONAWS.COM

Name Server: R2.AMAZONAWS.COM

Name Server: U1.AMAZONAWS.COM

Name Server: U2.AMAZONAWS.COM

Status: clientDeleteProhibited <https://icann.org/epp#clientDeleteProhibited>

Status: clientTransferProhibited <https://icann.org/epp#clientTransferProhibited>

Status: clientUpdateProhibited <https://icann.org/epp#clientUpdateProhibited>

Status: serverDeleteProhibited <https://icann.org/epp#serverDeleteProhibited>

Status: serverTransferProhibited <https://icann.org/epp#serverTransferProhibited>

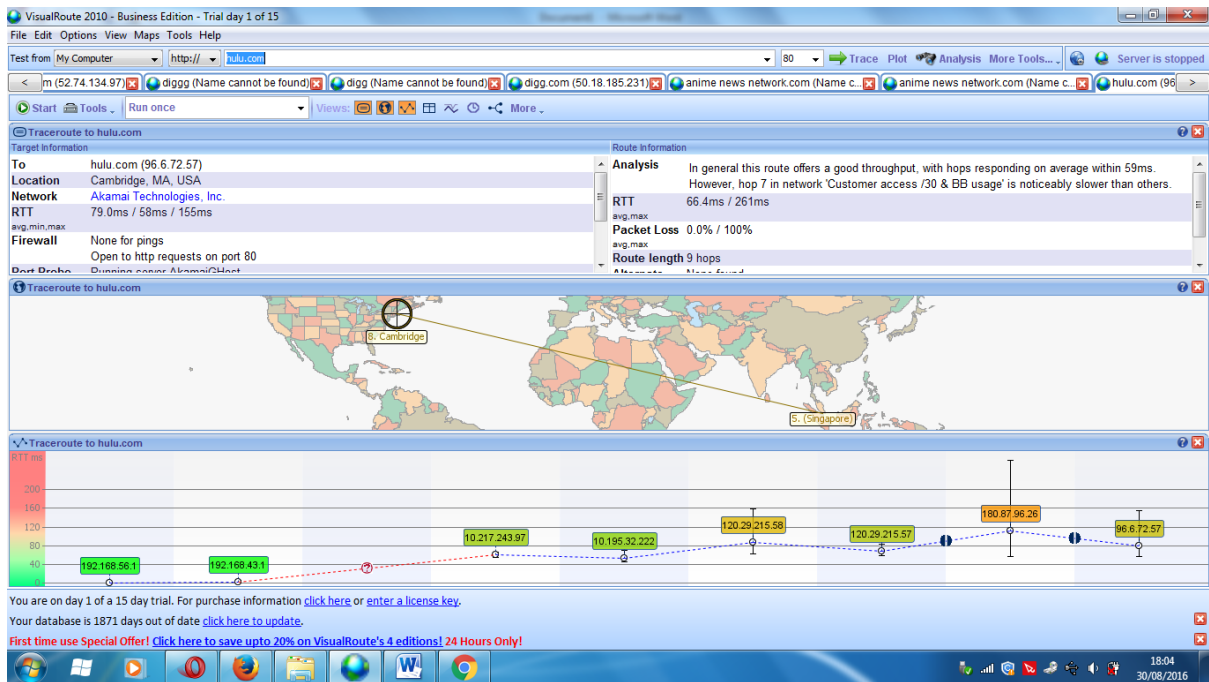
Status: serverUpdateProhibited <https://icann.org/epp#serverUpdateProhibited>

Updated Date: 05-may-2016

Creation Date: 18-aug-2005

Expiration Date: 16-jan-2020

Website Hulu.com



Network IP address lookup:

Whois query for **192.168.56.1...**

NetRange: 192.168.0.0 - 192.168.255.255
CIDR: 192.168.0.0/16
NetName: PRIVATE-ADDRESS-CBLK-RFC1918-IANA-RESERVED
NetHandle: NET-192-168-0-0-1
Parent: NET192 (NET-192-0-0-0-0)
NetType: IANA Special Use
OriginAS:
Organization: Internet Assigned Numbers Authority (IANA)
RegDate: 1994-03-15
Updated: 2013-08-30

Network IP address lookup:

Whois query for **192.168.43.1..**

NetRange: 192.168.0.0 - 192.168.255.255
CIDR: 192.168.0.0/16
NetName: PRIVATE-ADDRESS-CBLK-RFC1918-IANA-RESERVED
NetHandle: NET-192-168-0-0-1
Parent: NET192 (NET-192-0-0-0-0)
NetType: IANA Special Use
OriginAS:
Organization: Internet Assigned Numbers Authority (IANA)
RegDate: 1994-03-15
Updated: 2013-08-30

Network IP address lookup:

Whois query for 10.217.243.97...

NetRange: 10.0.0.0 - 10.255.255.255

CIDR: 10.0.0.0/8

NetName: PRIVATE-ADDRESS-ABLK-RFC1918-IANA-RESERVED

NetHandle: NET-10-0-0-0-1

Parent: ()

NetType: IANA Special Use

OriginAS:

Organization: Internet Assigned Numbers Authority (IANA)

RegDate:

Updated: 2013-08-30

Comment: These addresses are in use by many millions of independently operated networks, which might be as small as a single computer connected to a home gateway, and are automatically configured in hundreds of millions of devices. They are only intended for use within a private context and traffic that needs to cross the Internet will need to use a different, unique address.

Network IP address lookup:

Whois query for 10.195.32.222...

NetRange: 10.0.0.0 - 10.255.255.255

CIDR: 10.0.0.0/8

NetName: PRIVATE-ADDRESS-ABLK-RFC1918-IANA-RESERVED

NetHandle: NET-10-0-0-0-1

Parent: ()

NetType: IANA Special Use

OriginAS:

Organization: Internet Assigned Numbers Authority (IANA)

RegDate:

Updated: 2013-08-30

120.29.215.58 is from India (IN) in region Southern and Eastern Asia

TraceRoute from Network-Tools.com to 120.29.215.58Hop (ms) (ms) (ms)

IP Address	Host name				
1	1	0	0	206.123.64.221	-
2	1	1	1	129.250.202.253	xe-0-4-0-12.r01.dllstx04.us.bb.gin.ntt.net
3	1	1	1	129.250.2.208	ae-9.r07.dllstx09.us.bb.gin.ntt.net
4	1	1	1	129.250.9.194	ae-0.tata-communications.dllstx09.us.bb.gin.ntt.net
5	217	217	217	66.110.57.21	-
6	220	220	220	66.110.59.2	if-ae-2-2.tcore2.lvw-los-angeles.as6453.net
7	214	214	214	180.87.15.25	if-ae-7-2.tcore2.svw-singapore.as6453.net
8	213	213	212	180.87.96.21	if-ae-20-2.tcore1.svq-singapore.as6453.net
9	211	212	211	120.29.215.58	-

Trace complete

Network IP address lookup:

Whois query for 120.29.215.58...

NetRange: 120.0.0.0 - 120.255.255.255

CIDR: 120.0.0.0/8

NetName: APNIC-120

NetHandle: NET-120-0-0-0-1

Parent: ()

NetType: Allocated to APNIC

OriginAS:

Organization: Asia Pacific Network Information Centre (APNIC)

RegDate: 2007-01-17

Updated: 2010-07-30

Comment: This IP address range is not registered in the ARIN database.

Comment: For details, refer to the APNIC Whois Database via

Comment: WHOIS.APNIC.NET or <http://wq.apnic.net/apnic-bin/whois.pl>

Comment: ** IMPORTANT NOTE: APNIC is the Regional Internet Registry
 Comment: for the Asia Pacific region. APNIC does not operate networks
 Comment: using this IP address range and is not able to investigate
 Comment: spam or abuse reports relating to these addresses. For more
 Comment: help, refer to http://www.apnic.net/apnic-info/whois_search2/abuse-and-spamming
 Ref: <https://whois.arin.net/rest/net/NET-120-0-0-0-1>

120.29.215.57 is from India (IN) in region Southern and Eastern Asia

Input: 120.29.215.57

canonical name: ix-ae-24-0.tcore1.svq-singapore.as6453.net

Registered Domain: as6453.net

TraceRoute from Network-Tools.com to 120.29.215.57 [ix-ae-24-0.tcore1.svq-

	Hop	(ms)	(ms)	(ms)	IP Address	Host name
1	1	0	0	206.123.64.221	-	
2	1	1	1	129.250.202.253	xe-0-4-0-12.r01.dllstx04.us.bb.gin.ntt.net	
3	2	1	1	129.250.2.208	ae-9.r07.dllstx09.us.bb.gin.ntt.net	
4	1	1	1	129.250.9.194	ae-0.tata-communications.dllstx09.us.bb.gin.ntt.net	
5	220	217	217	66.110.57.21	-	
6	220	220	Timed out	66.110.59.2	if-ae-2-2.tcore2.lvw-los-angeles.as6453.net	
7	Timed out	214	214	180.87.15.25	if-ae-7-2.tcore2.svw-singapore.as6453.net	
8	216	216	215	120.29.215.57	ix-ae-24-0.tcore1.svq-singapore.as6453.net	

Trace complete

Retrieving DNS records for ix-ae-24-0.tcore1.svq-singapore.as6453.net...

DNS servers

ns1.as6453.net [66.198.145.55]

ns2.as6453.net [66.198.145.99]

Answer records

ix-ae-24-0.tcore1.svq-singapore.as6453.net 46 [286 bytes] 600s

ix-ae-24-0.tcore1.svq-singapore.as6453.net A 120.29.215.57 600s

Authority records

as6453.net	NS	ns2.as6453.net	600s
as6453.net	NS	ns1.as6453.net	600s

Additional records

ns1.as6453.net	A	66.198.145.55	86400s
ns1.as6453.net	28	[16 bytes]	86400s
ns2.as6453.net	A	66.198.145.99	86400s
ns2.as6453.net	28	[16 bytes]	86400s

Whois query for as6453.net...

Results returned from whois.internic.net:

Whois Server Version 2.0

Domain names in the .com and .net domains can now be registered with many different competing registrars. Go to <http://www.internic.net> for detailed information.

Domain Name: AS6453.NET

Registrar: CSL COMPUTER SERVICE LANGENBACH GMBH D/B/A JOKER.COM

Sponsoring Registrar IANA ID: 113

Whois Server: whois.joker.com

Referral URL: <http://www.joker.com>

Name Server: NS1.AS6453.NET

Name Server: NS2.AS6453.NET

Status: clientTransferProhibited <https://icann.org/epp#clientTransferProhibited>

Updated Date: 30-may-2016

Creation Date: 16-may-2006

Expiration Date: 16-may-2020

180.87.96.26 is from India (IN) in region Southern and Eastern Asia

TraceRoute from Network-Tools.com to 180.87.96.26Hop (ms) (ms) (ms)
IP Address Host name

1	36	0	0	206.123.64.233	-
2	1	1	1	129.250.202.253	xe-0-4-0-12.r01.dllstx04.us.bb.gin.ntt.net
3	1	1	1	129.250.2.208	ae-9.r07.dllstx09.us.bb.gin.ntt.net
4	1	1	1	129.250.9.194	ae-0.tata-communications.dllstx09.us.bb.gin.ntt.net
5	217	218	218	66.110.57.21	-
6	220	221	284	66.110.59.2	if-ae-2-2.tcore2.lvw-los-angeles.as6453.net
7	214	Timed out	214	180.87.15.25	if-ae-7-2.tcore2.svw-singapore.as6453.net
8	212	212	212	180.87.96.21	if-ae-20-2.tcore1.svq-singapore.as6453.net
9	220	213	213	180.87.96.26	-

Trace complete

Network IP address lookup:

Whois query for 180.87.96.26...

NetRange: 180.0.0.0 - 180.255.255.255

CIDR: 180.0.0.0/8

NetName: APNIC-180

NetHandle: NET-180-0-0-1

Parent: ()

NetType: Allocated to APNIC

OriginAS:

Organization: Asia Pacific Network Information Centre (APNIC)

RegDate: 2009-04-30

Updated: 2010-07-30

96.9.72.57 is from United States (US) in region North America

Input: 96.9.72.57

canonical name: 57.72.9.96.sinet.com.kh

Registered Domain: sinet.com.kh

TraceRoute from Network-Tools.com to 96.9.72.57 [57.72.9.96.sinet.com.kh]					
	Hop				
	(ms)	(ms)		IP Address	Host name
1	1	3	0	206.123.64.221	-
2	1	1	1	173.219.246.92	173-219-246-92.suddenlink.net
3	243	243	254	173.219.225.54	173-219-225-54.suddenlink.net
4	21	21	22	213.248.90.101	dls-bb1-link.telia.net
5	54	55	54	80.91.254.169	las-b21-link.telia.net
6	221	220	221	62.115.116.40	sjo-b21-link.telia.net
7	219	219	219	62.115.135.6	sng-e-b1-link.telia.net
8	240	240	240	62.115.147.209	sigroup-ic-319666-sng-e-b1.c.telia.net
9	237	237	237	43.245.201.138	-
10	240	240	240	203.217.171.153	153.premium.sinet.com.kh
11	238	238	238	96.9.64.148	148.64.9.96.sinet.com.kh

Analisa dari kedua website

Tribunnews.com adalah situs berita online Indonesia yang dipublikasikan oleh PT. Indopersda Primamedia. Situs berita online dengan tagline “Berita Terkini Indonesia” ini, berkantor pusat di Gedung Group of Regional Newspaper Kompas, Jl. Palmerah Selatan No.3, Jakarta Pusat. Sedangkan Hulu.com adalah situs web dan layanan langganan over-the-top (OTT) yang menawarkan pengaliran video acara TV, film, webisode dan media baru lainnya, trailer, klip, dan rekaman di balik layar dari NBC, Fox, ABC, TBS, dan beberapa jaringan dan studio lain. Video-video Hulu saat ini hanya dapat diakses oleh pengguna di Jepang dan Amerika Serikat (beserta teritori seberang lautnya).

Kedua website tersebut dengan IP awal yaitu 192.168.56.1 dengan jumlah seluruh IP pada website Tribunnews.com berjumlah 12 IP sedangkan jumlah IP pada website Hulu.com yaitu berjumlah 8 IP. Secara umum Hulu.com ini menawarkan throughput yang baik, dengan hop menanggapi rata-rata dalam 59ms. Namun, hop 7 di jaringan 'Akses Pelanggan / 30 & BB penggunaan' terasa lebih lambat daripada yang lain. Sedangkan Tribunnews.com secara umum rute ini cukup cepat, dengan hop menanggapi rata-rata dalam 135ms. Namun, semua hop setelah hop 3 di Jaringan Lokal merespon sedikit lebih lambat dari rata-rata