

TUGAS TASK 6
JARINGAN KOMPUTER



Nama : Fifi Hariyani

NIM : 09011181419031

Kelas : SK.5A

Dosen Pengampuh : Dr. Deris Stiawan M.T

FAKULTAS ILMU KOMPUTER
JURUSAN SISTEM KOMPUTER
UNIVERSITAS SRIWIJAYA

2016

Tugas :

Introgasi DNS Kedua Alamat website menggunakan ping, network.tools.com, bgp.he.net dan netcraft.com. Kemudian analisis!

Ketika Url masuk ke www.stikom-bali.ac.id dengan perintah ping di command prompt :

```
C:\Users\Fifi>ping stikom-bali.ac.id

Pinging stikom-bali.ac.id [180.250.7.181] with 32 bytes of data:
Reply from 180.250.7.181: bytes=32 time=235ms TTL=56
Reply from 180.250.7.181: bytes=32 time=2158ms TTL=56
Reply from 180.250.7.181: bytes=32 time=298ms TTL=56
Reply from 180.250.7.181: bytes=32 time=733ms TTL=56

Ping statistics for 180.250.7.181:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 235ms, Maximum = 2158ms, Average = 856ms
```

Ketika Url masuk ke www.itb.ac.id dengan perintah ping di command prompt :

```
C:\Users\Fifi>ping itb.ac.id

Pinging itb.ac.id [167.205.1.34] with 32 bytes of data:
Reply from 167.205.1.34: bytes=32 time=72ms TTL=54
Reply from 167.205.1.34: bytes=32 time=79ms TTL=54
Reply from 167.205.1.34: bytes=32 time=67ms TTL=54
Reply from 167.205.1.34: bytes=32 time=97ms TTL=54

Ping statistics for 167.205.1.34:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 67ms, Maximum = 97ms, Average = 78ms

C:\Users\Fifi>
```

Analisa:

Ping adalah perintah yang digunakan untuk mengetes koneksi ke jaringan / alamat situs yang di tuju. Jika dilihat hasilnya menunjukkan balasan "Reply from" berarti koneksi untuk menuju alamat situs tersebut dalam keadaan stabil. Apabila ada tanda * atau pesan "request timed out" pada hasil ping, maka terdapat masalah ada pada koneksi internet.

Dengan Menggunakan www.network.tools.com

Ke www.stikom-bali.ac.id

Belanja Akesori Kamera

Shopping hemat sampai 70% Buruan Cek Sekarang di Alfacart!

180.250.7.181 is from Indonesia (ID) in region Southern and Eastern Asia
 Input: stikom-bali.ac.id
 canonical name: stikom-bali.ac.id
 Registered Domain: stikom-bali.ac.id

TraceRoute from Network-Tools.com to 180.250.7.181 [stikom-bali.ac.id]

Hop	(ms)	(ms)	(ms)	IP Address	Host name
1	1	0	0	206.123.64.233	-
2	5	1	1	4.15.32.133	lag-127.ear1.dallas1.level3.net
3	32	32	32	4.69.144.10	ae-1-60.edge1.losangeles9.level3.net
4	31	32	32	4.69.144.10	ae-1-60.edge1.losangeles9.level3.net
5	32	32	32	4.53.228.154	pt.telekomu.edge1.losangeles9.level3.net
6	208	208	208	180.240.192.37	-
7	210	211	211	61.94.117.129	-
8	287	258	310	180.250.7.181	-

Trace complete

Retrieving DNS records for **stikom-bali.ac.id**...

DNS servers
 ns1.stikom-bali.ac.id [180.250.7.181]
 ns2.afraid.org

Answer records
 stikom-bali.ac.id SOA server: ns1.stikom-bali.ac.id 86400s
 email: sisjar@stikom-bali.ac.id
 serial: 2015121126
 refresh: 86400
 retry: 7200
 expire: 3600000

Ping pada DNS Server

```
C:\Users\Fifi>ping ns1.stikom-bali.ac.id

Pinging ns1.stikom-bali.ac.id [180.250.7.181] with 32 bytes of data:
Reply from 180.250.7.181: bytes=32 time=75ms TTL=54
Reply from 180.250.7.181: bytes=32 time=88ms TTL=54
Reply from 180.250.7.181: bytes=32 time=65ms TTL=54
Reply from 180.250.7.181: bytes=32 time=112ms TTL=54

Ping statistics for 180.250.7.181:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 65ms, Maximum = 112ms, Average = 85ms

C:\Users\Fifi>
```

Ke www.itb.ac.id

Belanja Akesori Kamera

Shopping hemat sampai 70% Buruan Cek Sekarang di Alfacart!

167.205.1.34 is from Indonesia (ID) in region Southern and Eastern Asia
 Input: itb.ac.id
 canonical name: itb.ac.id
 Registered Domain: itb.ac.id

TraceRoute from Network-Tools.com to 167.205.1.34 [itb.ac.id]

Hop	(ms)	(ms)	(ms)	IP Address	Host name
1	1	0	0	206.123.64.153	-
2	6	1	0	64.124.196.225	xe-4-2-0.er2.dfw2.us.above.net
3	1	2	1	64.125.12.134	zayo-pccw.dfw2.us.zip.zayo.com
4	190	190	190	63.223.15.146	tenge0-4-0-8.br02.hkg15.pccwbtn.net
5	190	190	190	63.223.15.146	tenge0-4-0-8.br02.hkg15.pccwbtn.net
6	218	219	219	63.218.61.170	indosat.ge13-26.br01.hkg04.pccwbtn.net
7	234	234	234	114.4.19.78	-
8	235	235	235	114.4.119.250	-
9	Timed out	Timed out	Timed out	-	-
10	236	240	245	167.205.23.3	pau-mxe-10ge-ve4.itb.ac.id
11	249	248	249	167.205.1.34	www.itb.ac.id

Trace complete

Retrieving DNS records for **itb.ac.id**...

DNS servers
 ns1.itb.ac.id [167.205.23.1]
 ns2.itb.ac.id [167.205.22.123]
 sns-pb.isc.org
 ns1.ai3.net
 ns3.itb.ac.id [167.205.30.114]

Ping pada DNS Server

```
C:\Users\Fifi>ping ns1.itb.ac.id

Pinging ns1.itb.ac.id [167.205.23.1] with 32 bytes of data:
Reply from 167.205.23.1: bytes=32 time=351ms TTL=51
Request timed out.
Reply from 167.205.23.1: bytes=32 time=280ms TTL=51
Reply from 167.205.23.1: bytes=32 time=349ms TTL=51

Ping statistics for 167.205.23.1:
    Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 280ms, Maximum = 351ms, Average = 326ms

C:\Users\Fifi>
```

```
C:\Users\Fifi>ping ns2.itb.ac.id

Pinging ns2.itb.ac.id [167.205.22.123] with 32 bytes of data:
Request timed out.
Request timed out.
Reply from 167.205.22.123: bytes=32 time=158ms TTL=50
Reply from 167.205.22.123: bytes=32 time=436ms TTL=50

Ping statistics for 167.205.22.123:
    Packets: Sent = 4, Received = 2, Lost = 2 (50% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 158ms, Maximum = 436ms, Average = 297ms

C:\Users\Fifi>
```

```
C:\Users\Fifi>ping ns1.ai3.net

Pinging ns1.ai3.net [202.249.24.33] with 32 bytes of data:
Reply from 202.249.24.33: bytes=32 time=163ms TTL=47
Reply from 202.249.24.33: bytes=32 time=162ms TTL=47
Request timed out.
Reply from 202.249.24.33: bytes=32 time=408ms TTL=47

Ping statistics for 202.249.24.33:
    Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 162ms, Maximum = 408ms, Average = 244ms

C:\Users\Fifi>
```

```
C:\Users\Fifi>ping ns3.itb.ac.id

Pinging ns3.itb.ac.id [167.205.30.114] with 32 bytes of data:
Reply from 167.205.30.114: bytes=32 time=173ms TTL=49
Reply from 167.205.30.114: bytes=32 time=62ms TTL=49
Request timed out.
Request timed out.

Ping statistics for 167.205.30.114:
    Packets: Sent = 4, Received = 2, Lost = 2 (50% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 62ms, Maximum = 173ms, Average = 117ms

C:\Users\Fifi>
```

Dengan Menggunakan www.bgp.he.net

Ke www.stikom-bali.ac.id



AS17974 PT Telekomunikasi Indonesia

- Quick Links**
- [BGP Toolkit Home](#)
 - [BGP Prefix Report](#)
 - [BGP Peer Report](#)
 - [Exchange Report](#)
 - [Bogon Routes](#)
 - [World Report](#)
 - [Multi Origin Routes](#)
 - [DNS Report](#)
 - [Top Host Report](#)
 - [Internet Statistics](#)
 - [Looking Glass](#)
 - [Network Tools App](#)
 - [Free IPv6 Tunnel](#)
 - [IPv6 Certification](#)
 - [IPv6 Progress](#)
 - [Going Native](#)
 - [Contact Us](#)

AS Info | [Graph v4](#) | [Graph v6](#) | [Prefixes v4](#) | [Prefixes v6](#) | [Peers v4](#) | [Peers v6](#) | [Whois](#) | [IRR](#) | [IX](#)

Country of Origin:	Indonesia
Internet Exchanges: 2	Prefixes Announced (all): 2,970 Prefixes Announced (v4): 2,962 Prefixes Announced (v6): 8
Prefixes Originated (all): 2,970 Prefixes Originated (v4): 2,962 Prefixes Originated (v6): 8	IPs Originated (v4): 3,708,672 AS Paths Observed (v4): 1,318 AS Paths Observed (v6): 222
BGP Peers Observed (all): 6 BGP Peers Observed (v4): 6 BGP Peers Observed (v6): 1	
Average AS Path Length (all): 4.583 Average AS Path Length (v4): 4.659 Average AS Path Length (v6): 4.131	

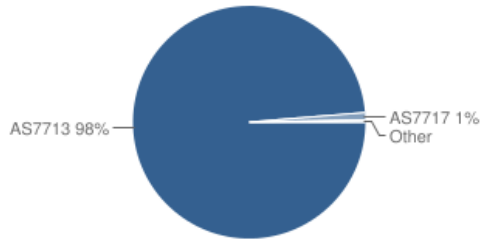


AS17974 IPv4 Peers



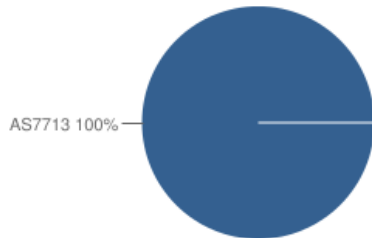
ASN	Name
AS7713	PT Telekomunikasi Indonesia
AS7717	OpenIXP ASN

AS17974 IPv4 Peers



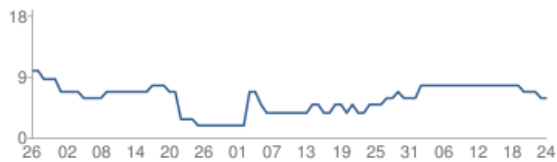
ASN	Name
AS7713	PT Telekomunikasi Indonesia
AS7717	OpenIXP ASN

AS17974 IPv6 Peers

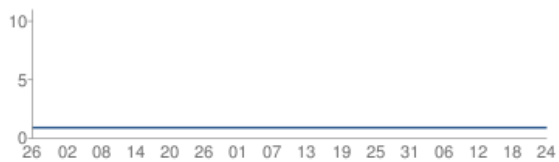


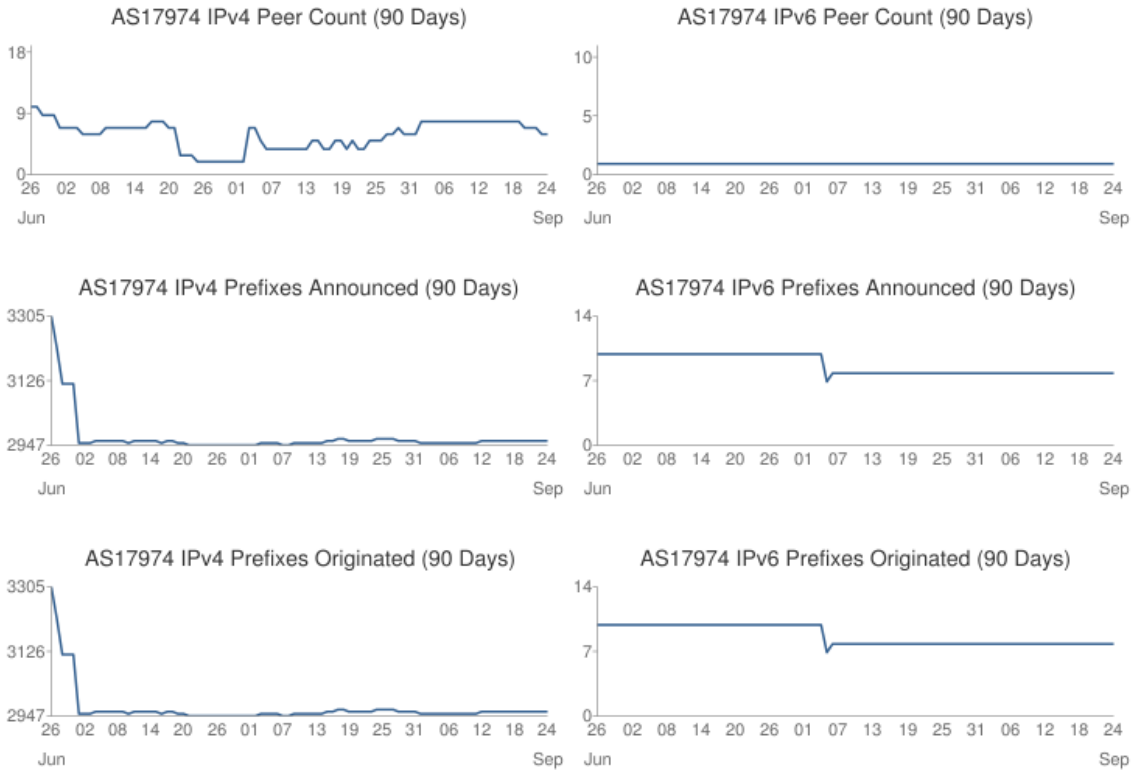
ASN	Name
AS7713	PT Telekomunikasi Indonesia

AS17974 IPv4 Peer Count (90 Days)



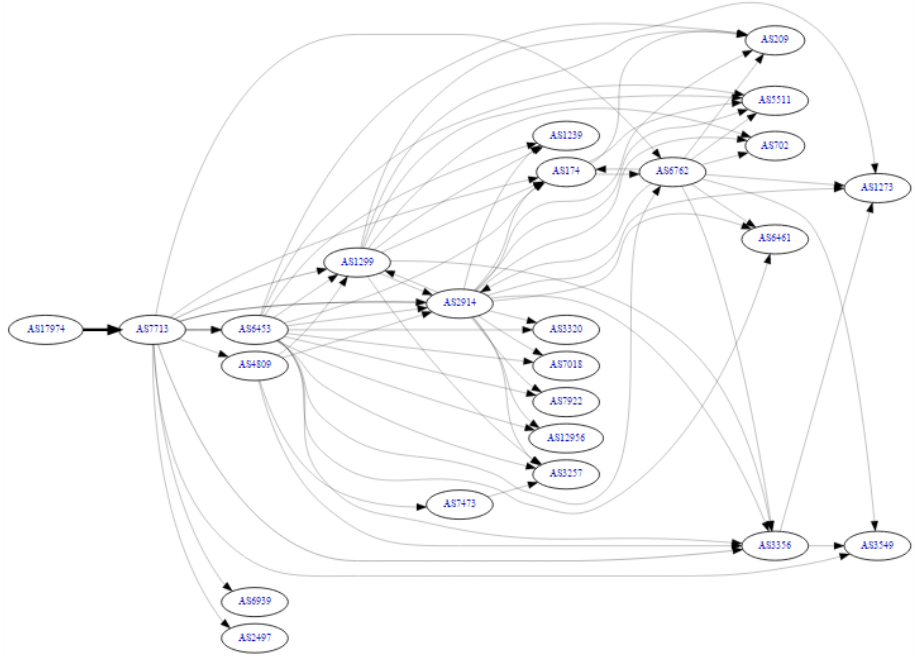
AS17974 IPv6 Peer Count (90 Days)

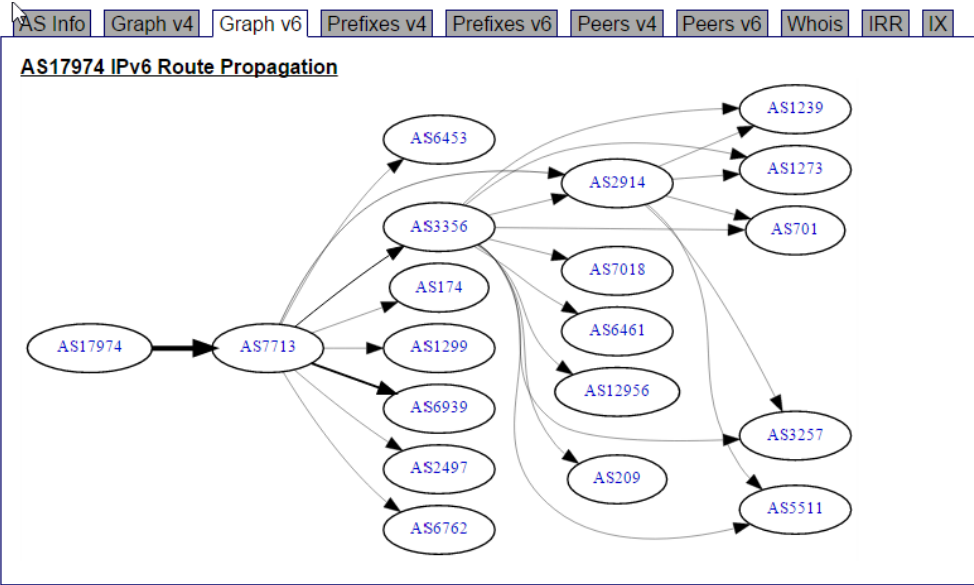




AS Info | Graph v4 | Graph v6 | Prefixes v4 | Prefixes v6 | Peers v4 | Peers v6 | Whois | IRR | IX

AS17974 IPv4 Route Propagation





AS17974 PT Telekomunikasi Indonesia

AS Info Graph v4 Graph v6 Prefixes v4 Prefixes v6 Peers v4 Peers v6 Whois IRR IX

Rank	Description	IPv6	Peer
1	PT Telekomunikasi Indonesia	X	AS7713
2	OpenIXP ASN		AS7717
3	Indonesia Internet Exchange		AS7597
4	PT. Palapa Media Indonesia		AS58482
5	PT. Telekomunikasi Selular		AS23693
6	MCI Communications Services, Inc. d/b/a Verizon Business		AS15133

AS17974 PT Telekomunikasi Indonesia

AS Info Graph v4 Graph v6 Prefixes v4 Prefixes v6 Peers v4 Peers v6 Whois IRR IX

Rank	Description	IPv4	Peer
1	PT Telekomunikasi Indonesia	X	AS7713

Ke www.itb.ac.id



- Quick Links
- BGP Toolkit Home
- BGP Prefix Report
- BGP Peer Report
- Exchange Report
- Bogon Routes
- World Report
- Multi Origin Routes
- DNS Report
- Top Host Report
- Internet Statistics
- Looking Glass
- Network Tools App
- Free IPv6 Tunnel
- IPv6 Certification
- IPv6 Progress
- Going Native
- Contact Us



- AS Info
- Graph v4
- Graph v6
- Prefixes v4
- Prefixes v6
- Peers v4
- Peers v6
- Whois
- IRR

Company Website: <http://www.itb.ac.id>

Country of Origin: Indonesia

Prefixes Originated (all): 6
Prefixes Originated (v4): 4
Prefixes Originated (v6): 2

Prefixes Announced (all): 6
Prefixes Announced (v4): 4
Prefixes Announced (v6): 2

BGP Peers Observed (all): 7
BGP Peers Observed (v4): 5
BGP Peers Observed (v6): 5

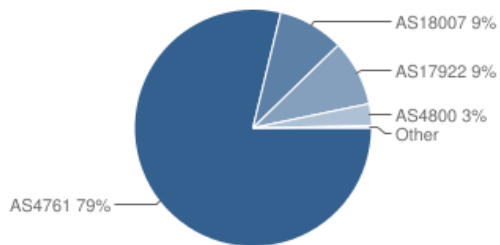
IPs Originated (v4): 49,152
AS Paths Observed (v4): 371
AS Paths Observed (v6): 242

Average AS Path Length (all): 4.387
Average AS Path Length (v4): 4.464
Average AS Path Length (v6): 4.269



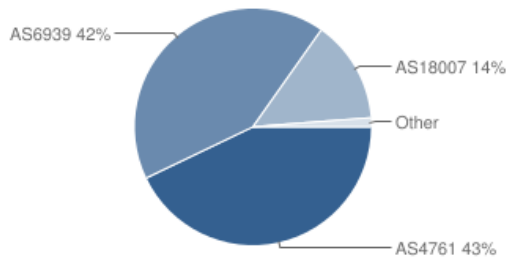
Suka! Jadilah orang pertama di antara teman-teman yang menyukai ini.

AS4796 IPv4 Peers

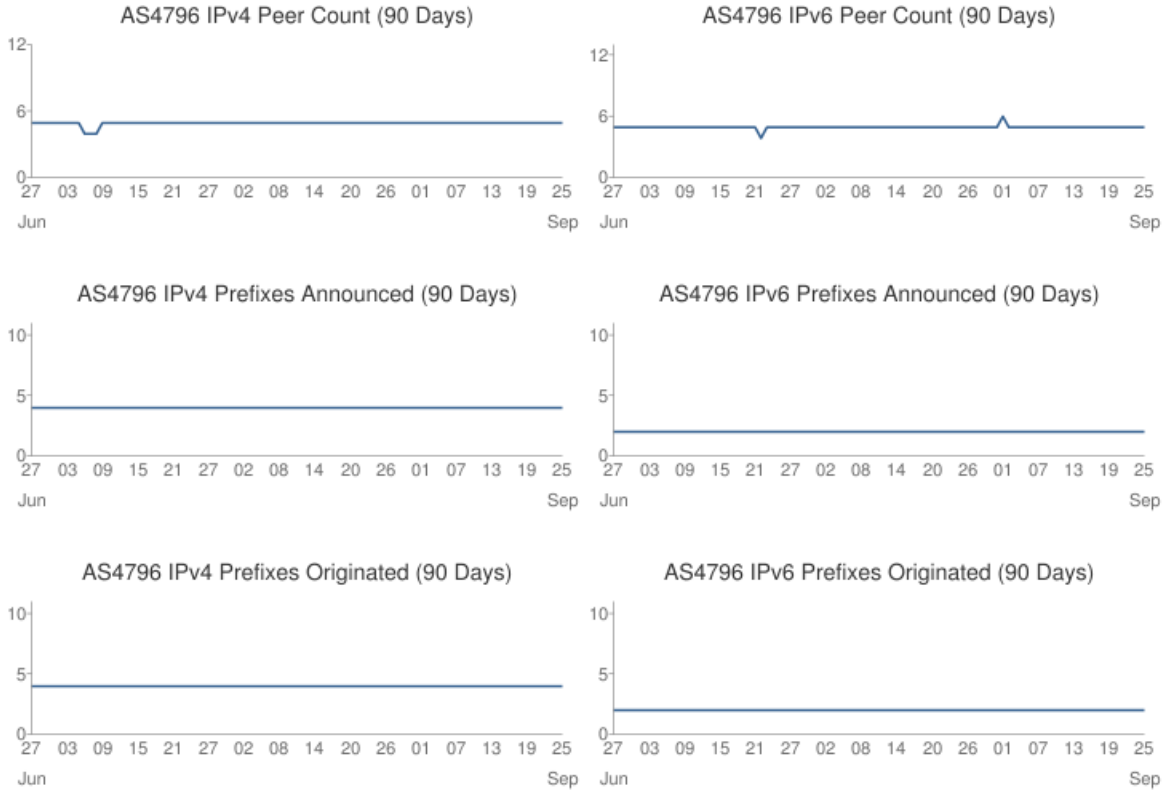


ASN	Name
AS4761	INDOSAT Internet Network Provider
AS18007	INHERENT
AS17922	INDOSAT Internet Network Provider
AS4800	Network Access Provider and Internet Service Provider

AS4796 IPv6 Peers



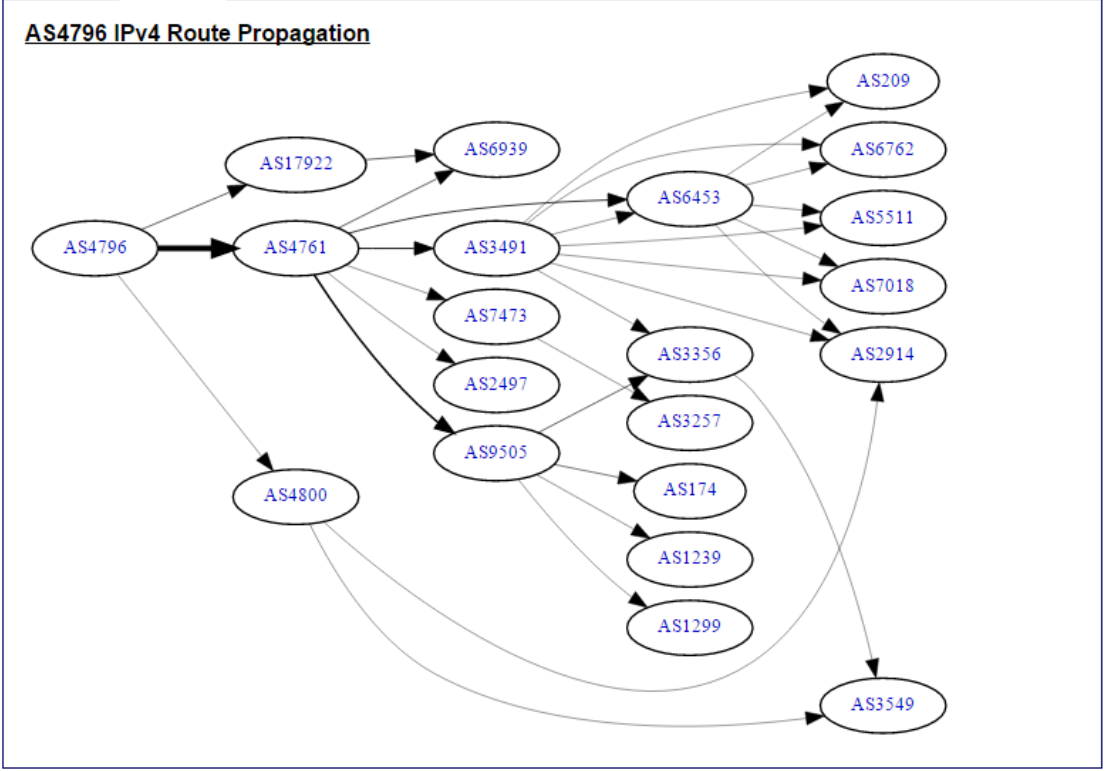
ASN	Name
AS4761	INDOSAT Internet Network Provider
AS6939	Hurricane Electric, Inc.
AS18007	INHERENT



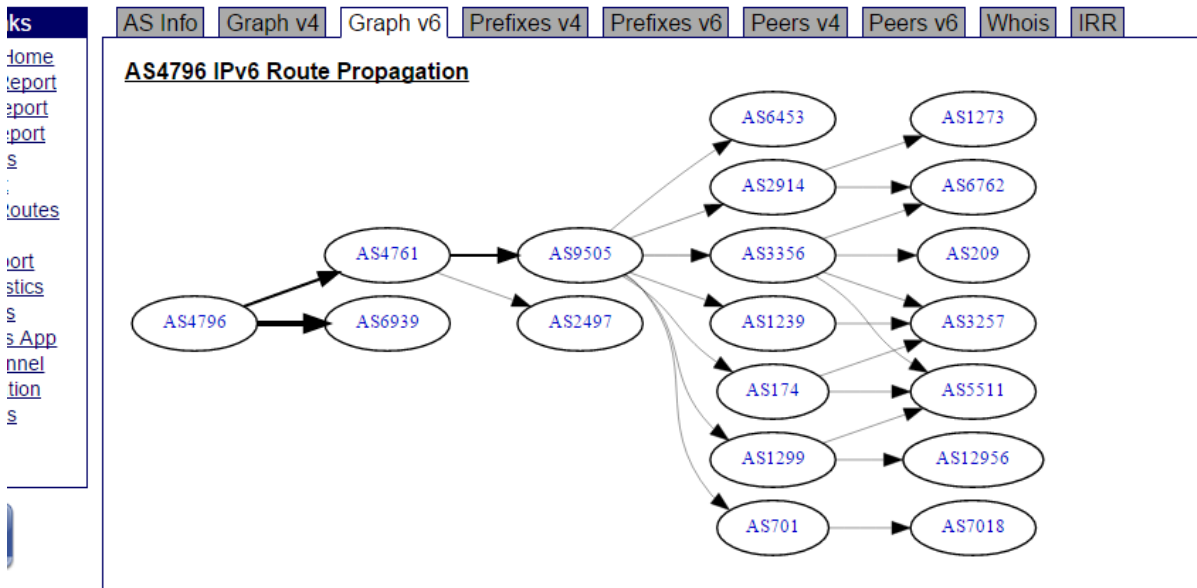
AS4796 Institute of Technology Bandung

- AS Info
- Graph v4
- Graph v6
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- Prefixes v6
- Peers v4
- Peers v6
- Whois
- IRR






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Rank	Description	IPv6	Peer
1	INDOSAT Internet Network Provider	 X	AS4761
2	INHERENT	 X	AS18007
3	INDOSAT Internet Network Provider	 X	AS17922
4	Network Access Provider and Internet Service Provider		AS4800
5	Universitas STIKUBANK		AS59138

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Rank	Description	IPv4	Peer
1	INDOSAT Internet Network Provider	 X	AS4761
2	Hurricane Electric, Inc.		AS6939
3	INHERENT	 X	AS18007
4	INDOSAT Internet Network Provider	 X	AS17922
5	Politeknik Negeri Sriwijaya		AS46047

Analisa :

Dari hasil introgasi DNS menggunakan bgp.he.net informasi yang dapat dihasilkan yaitu menampilkan AS number dan setelah AS number dimasukkan maka akan muncul Jumlah peers yang menentukan apakah kapasitas network pada AS number tersebut apakah semakin baik atau tidak. Berdasarkan gambar pada

kedua situs tersebut didapat jumlah peersnya banyak maka kapasitas network tersebut semakin baik.

Dengan Menggunakan www.netcraft.com

Ke www.stikom-bali.ac.id

Search Web by Domain

Explore 1,268,326 web sites visited by users of the Netcraft Toolbar

25th September 2016

Search: search tips

example: site contains .netcraft.com

Results for stikom-bali.ac.id

Found 3 sites

Site	Site Report	First seen	Netblock	OS
1. sion.stikom-bali.ac.id		april 2007	pt telkom indonesia	windows server 2008
2. elearning.stikom-bali.ac.id		september 2008	pt telkom indonesia	windows server 2008
3. www.stikom-bali.ac.id		may 2006	pt telkom indonesia	linux

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Ke www.itb.ac.id

Search Web by Domain

Explore 1,268,326 web sites visited by users of the Netcraft Toolbar

25th September 2016

Search: search tips

example: site contains .netcraft.com

Results for itb.ac.id

Found 9 sites

Site	Site Report	First seen	Netblock	OS
1. itb.ac.id		october 1996	institut teknologi bandung jl. ganesha 10 bandung 40132 indonesia	unknown
2. www.itb.ac.id		october 1996	institut teknologi bandung jl. ganesha 10 bandung 40132 indonesia	freebsd
3. blogs.itb.ac.id		june 2010	institut teknologi bandung jl. ganesha 10 bandung 40132 indonesia	linux - centos
4. usm.itb.ac.id		october 2012	institut teknologi bandung jl. ganesha 10 bandung 40132 indonesia	unknown
5. digilib.itb.ac.id		november 2001	institut teknologi bandung jl. ganesha 10 bandung 40132 indonesia	linux
6. www.lc.itb.ac.id		april 1999	institut teknologi bandung jl. ganesha 10 bandung 40132 indonesia	freebsd
7. www.sbm.itb.ac.id		may 2004	institut teknologi bandung jl. ganesha 10 bandung 40132 indonesia	freebsd
8. www.ftsl.itb.ac.id		may 2006	institut teknologi bandung jl. ganesha 10 bandung 40132 indonesia	linux - centos
9. informatika.stei.itb.ac.id		february 2012	institut teknologi bandung jl. ganesha 10 bandung 40132 indonesia	freebsd

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Analisa:

www.netcraft.com merupakan situs yang menyediakan fitur untuk melakukan tracking suatu situs.

Dari hasil tracking menggunakan www.netcraft.com yang akan melakukan tracking pada kedua situs tersebut dan informasi yang didapatkan yaitu:

- Site : nama situs yang dicari informasinya
- First seen : waktu situs pertama kali dilihat
- Netblock : nama pemilik net block
- Os : nama software yang dipakai tiap-tiap site

Gambar Cloud dari DNS www.stikom-bali.ac.id dan www.itb.ac.id

