TUGAS VI

MENGANALISA DNS PADA DUA WEBSITE

DISUSUN OLEH:

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JURUSAN SISTEM KOMPUTER

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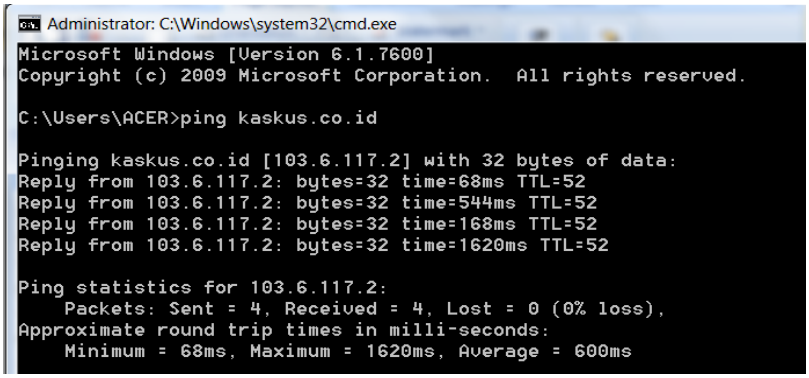
DOMAIN NAME SERVER

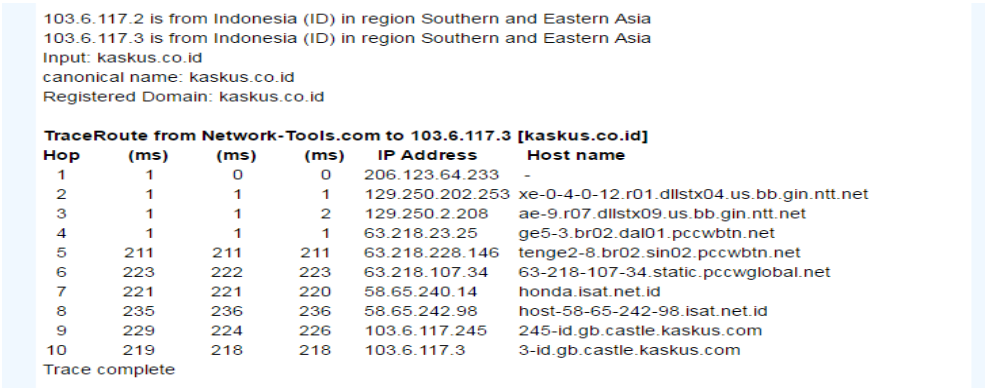
DNS (Domain Name Server) adalah sebuah sistem yang menyimpan informasi tentang nama host ataupun nama domain dalam bentuk basis data tersebar (distribused database) di dalam jaringan komputer . DNS menyediakan alamat IP untuk setiap nama host mendata setiap server transmisi surat (mail exchange server) yang menerima surel (email) untuk setiap domain.

Untuk analisa ini saya memilih untuk mengcapture dua websote yaitu kaskus.co.id dan Wordpress.com.

DNS Pada kaskus.co.id



Pertama menggunakan Command Prompt tersebut untuk memanggil atau mengeping kaskus.co.id serta menampilkan IP Address tujuan yaitu 103.6.117.2



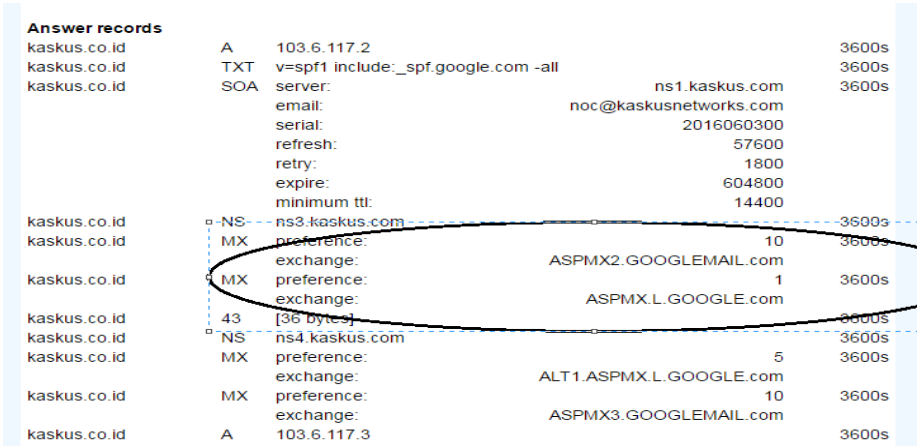
103.6.117.2 is from Indonesia (ID) in region Southern and Eastern Asia
103.6.117.3 is from Indonesia (ID) in region Southern and Eastern Asia
Input: kaskus.co.id
canonical name: kaskus.co.id
Registered Domain: kaskus.co.id

TraceRoute from Network-Tools.com to 103.6.117.3 [kaskus.co.id]

Hop	(ms)	(ms)	(ms)	IP Address	Host name
1	1	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	2	129.250.2.208	ae-9.r07.dllstx09.us.bb.gin.ntt.net
4	1	1	1	63.218.23.25	ge5-3.br02.dal01.pccwbtn.net
5	211	211	211	63.218.228.146	tenge2-8.br02.sin02.pccwbtn.net
6	223	222	223	63.218.107.34	63-218-107-34.static.pccwglobal.net
7	221	221	220	58.65.240.14	honda.isat.net.id
8	235	236	236	58.65.242.98	host-58-65-242-98.isat.net.id
9	229	224	226	103.6.117.245	245-id.gb.castle.kaskus.com
10	219	218	218	103.6.117.3	3-id.gb.castle.kaskus.com

Trace complete

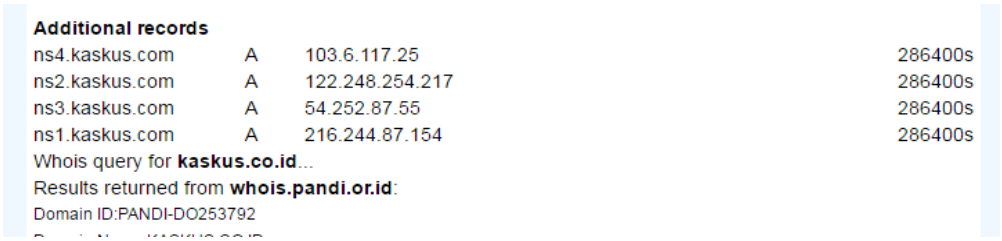
Langkah selanjutnya yaitu dengan membuka network-tools.com dengan menginput website kaskus.co.id. Di sini juga ditampilkan IP Addressnya.



Answer records

kaskus.co.id	A	103.6.117.2		3600s
kaskus.co.id	TXT	v=spf1 include:_spf.google.com -all		3600s
kaskus.co.id	SOA	server:	ns1.kaskus.com	3600s
		email:	noc@kaskusnetworks.com	
		serial:	2016060300	
		refresh:	57600	
		retry:	1800	
		expire:	604800	
		minimum ttl:	14400	
kaskus.co.id	NS	ns3.kaskus.com		3600s
kaskus.co.id	MX	preference:	10	3600s
		exchange:	ASPMX2.GOOGLEMAIL.com	
kaskus.co.id	MX	preference:	1	3600s
		exchange:	ASPMX.L.GOOGLE.com	
kaskus.co.id	43	[36 bytes]		3600s
kaskus.co.id	NS	ns4.kaskus.com		3600s
kaskus.co.id	MX	preference:	5	3600s
		exchange:	ALT1.ASPMX.L.GOOGLE.com	
kaskus.co.id	MX	preference:	10	3600s
		exchange:	ASPMX3.GOOGLEMAIL.com	
kaskus.co.id	A	103.6.117.3		3600s

MX (Mail Exchange) yaitu semua catatan MX, DNS, blacklist dan SMTP diagnostik dalam satu alat yang terintegrasi. Masukan nama domain atau IP Address atau Hostname. Hasil link tersebut akan membantu kita untuk mendapat informasi yang relavan serta dapat melihat historinya dan pada Kaskus semua itu dilarikan ke ASMX2.GOOGLEMAIL.COM.



Additional records

ns4.kaskus.com	A	103.6.117.25	286400s
ns2.kaskus.com	A	122.248.254.217	286400s
ns3.kaskus.com	A	54.252.87.55	286400s
ns1.kaskus.com	A	216.244.87.154	286400s

Whois query for **kaskus.co.id**...
Results returned from **whois.pandi.or.id**:
Domain ID:PANDI-DO253792

Selanjutnya yaitu terlihat pada capture di atas bahwa Kaskus dilayani oleh empat name server (ns) yaitu ns4, ns2, ns3 dan ns1.

DNS Info | Website Info | IP Info | Whois

Start of Authority

mname: ns1.kaskus.com rname: noc.kaskusnetworks.com
serial: 2016060300
refresh: 57600 retry: 1800
expire: 604800 minimum: 14400

Nameservers

ns1.kaskus.com, ns2.kaskus.com, ns3.kaskus.com, ns4.kaskus.com

Mail Exchangers

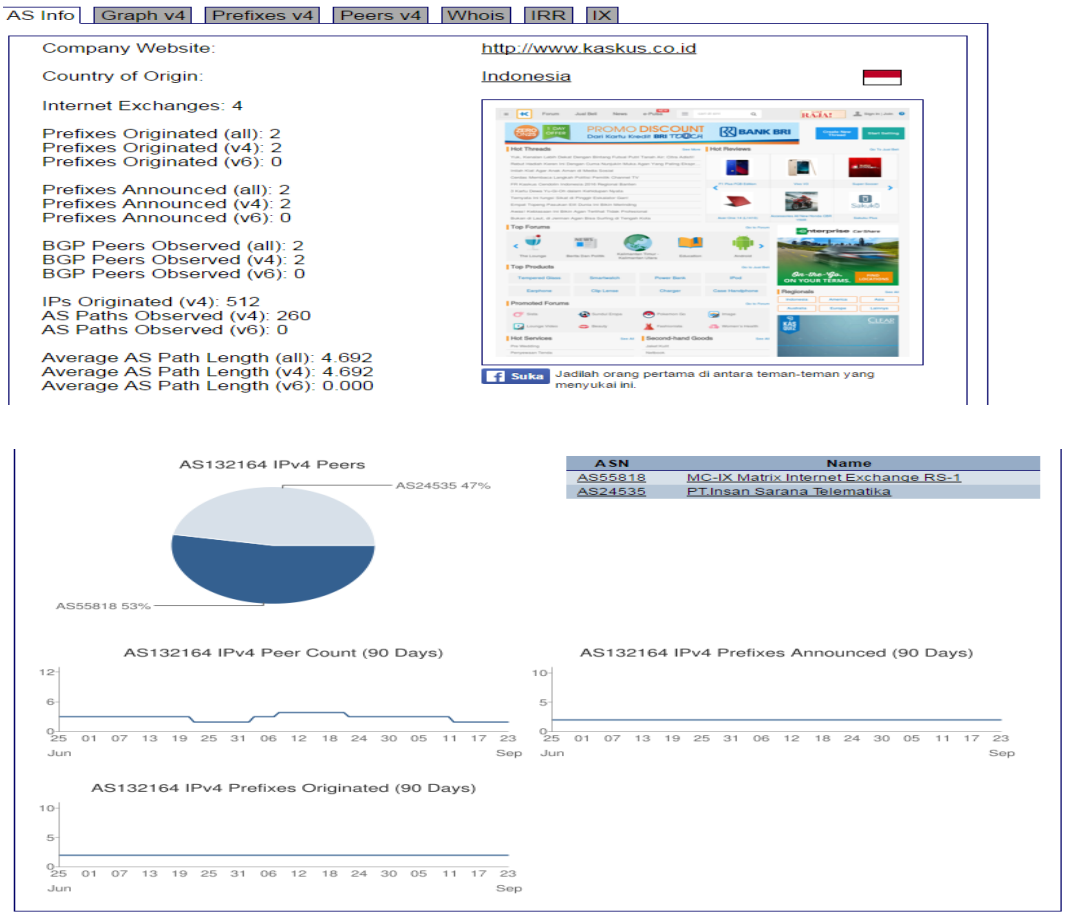
ASPMX.L.GOOGLE.COM(1), ALT1.ASPMX.L.GOOGLE.COM(5), ALT2.ASPMX.L.GOOGLE.COM(5), ASPMX2.GOOGLEMAIL.COM(10), ASPMX3.GOOGLEMAIL.COM(10)

TXT Records

v=spf1 include:_spf.google.com -all

A Records

103.6.117.3, 103.6.117.2



Langkah berikutnya dengan mengunjungi alamat bgp.he.net untuk mengintrogasi peers dengan memasukkan AS number yang kita dapat pada kolom IP Info. Kaskus hanya memiliki dua ASN dengan nama MC-IX dan PT. Insan Sarana Telematika, serta masih menggunakan IPv4.

Results for kaskus.co.id

Found 9 sites

	Site	Site Report	First seen	Netblock	OS
1.	www.kaskus.co.id		september 2008	pt darta media indonesia	unknown
2.	fjb.kaskus.co.id		june 2015	pt darta media indonesia	unknown
3.	m.kaskus.co.id		july 2012	pt darta media indonesia	unknown
4.	kaskus.co.id		september 2008	pt darta media indonesia	unknown
5.	archive.kaskus.co.id		august 2012	pt darta media indonesia	linux
6.	fjb.m.kaskus.co.id		june 2015	pt darta media indonesia	unknown
7.	kad.kaskus.co.id		july 2012	pt darta media indonesia	unknown
8.	kkcdn-static.kaskus.co.id		august 2012	highwinds network group, inc.	linux
9.	old.kaskus.co.id		december 2012	pt darta media indonesia	linux

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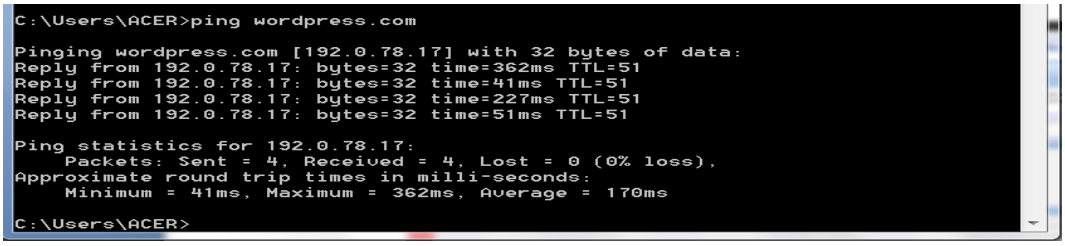
Langkah terakhir dengan menggunakan netcraft untuk menampilkan histori, informasi server dan webserver yang dipakai oleh kaskus tersebut. Kaskus mengoprasikan servernya pada tahun 2008.

DNS Pada Wordpress.com

Untuk wordpress saya akan menjelaskan sedikit karena sudah saya jelaskan sebelumnya pada Kaskus.co.id.



Untuk wordpress.com alamat IP tujuan yang didapat yaitu 192.0.78.17.

192.0.78.17 is from United States (US) in region North America
192.0.78.9 is from United States (US) in region North America
Input: wordpress.com
canonical name: wordpress.com
Registered Domain: wordpress.com

TraceRoute from Network-Tools.com to 192.0.78.9 [wordpress.com]

Hop	(ms)	(ms)	(ms)	IP Address	Host name
1	1	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	2	2	2	129.250.194.246	xe-0-1-0-30.r08.dllstx09.us.ce.gin.ntt.net
5	2	1	1	198.181.119.83	wordpress.com
6	Timed out	Timed out	Timed out		-
7	2	2	1	192.0.78.9	-

Trace complete

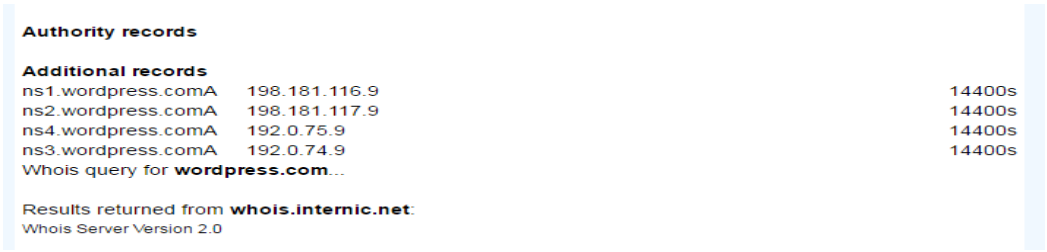
Retrieving DNS records for **wordpress.com**...

DNS servers
ns3.wordpress.com [192.0.74.9]
ns4.wordpress.com [192.0.75.9]
ns1.wordpress.com [198.181.116.9]
ns2.wordpress.com [198.181.117.9]

Answer records

wordpress.com	MX	preference:	0 14400s
		exchange:	mail.automattic.com
wordpress.com	NS	ns1.wordpress.com	14400s
wordpress.com	NS	ns2.wordpress.com	14400s
wordpress.com	A	192.0.78.17	300s
wordpress.com	NS	ns3.wordpress.com	14400s
wordpress.com	NS	ns4.wordpress.com	14400s
wordpress.com	TXT	v=spf1 include:_spf.automattic.com include:servers.mcsv.net include:_spf-wwd.automattic.com include:mail.zendesk.com ~all	3600s
wordpress.com	SOA	server:	ns1.wordpress.com 14400s
		email:	mmmmmm@gmail.com
		serial:	2005071858

Pada wordpress, semua catatan MX, DNS, blacklist dan SMTP dilarikan ke mail.automattic.com.



Authority records

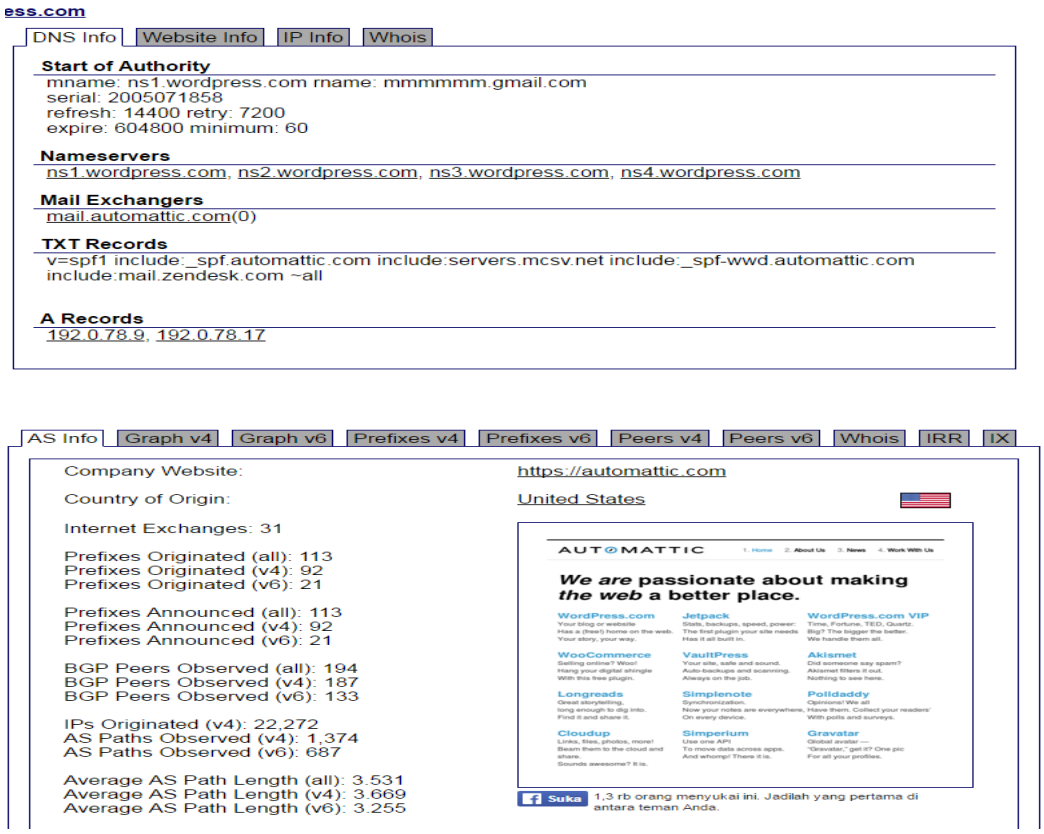
Additional records

ns1.wordpress.comA	198.181.116.9	14400s
ns2.wordpress.comA	198.181.117.9	14400s
ns4.wordpress.comA	192.0.75.9	14400s
ns3.wordpress.comA	192.0.74.9	14400s

Whois query for **wordpress.com**...

Results returned from **whois.internic.net**:
Whois Server Version 2.0

Dapat dilihat barisan name server dari wordpress pada picture di atas.



ess.com

DNS Info | Website Info | IP Info | Whois

Start of Authority
mname: ns1.wordpress.com rname: mmmmmm.gmail.com
serial: 2005071858
refresh: 14400 retry: 7200
expire: 604800 minimum: 60

Nameservers
ns1.wordpress.com, ns2.wordpress.com, ns3.wordpress.com, ns4.wordpress.com

Mail Exchangers
mail.automattic.com(0)

TXT Records
v=spf1 include:_spf.automattic.com include:servers.mcsv.net include:_spf-wwd.automattic.com include:mail.zendesk.com ~all

A Records
192.0.78.9, 192.0.78.17

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

Company Website: https://automattic.com

Country of Origin: United States

Internet Exchanges: 31

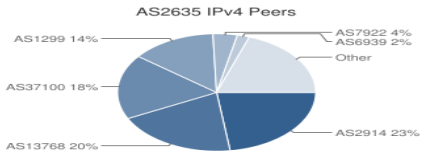
Prefixes Originated (all): 113
Prefixes Originated (v4): 92
Prefixes Originated (v6): 21

Prefixes Announced (all): 113
Prefixes Announced (v4): 92
Prefixes Announced (v6): 21

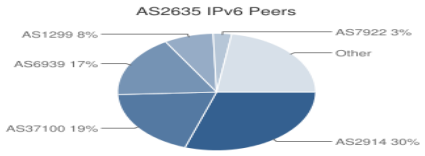
BGP Peers Observed (all): 194
BGP Peers Observed (v4): 187
BGP Peers Observed (v6): 133

IPs Originated (v4): 22,272
AS Paths Observed (v4): 1,374
AS Paths Observed (v6): 687

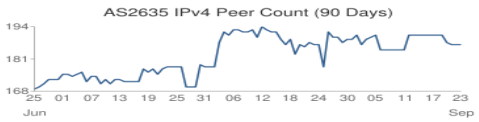
Average AS Path Length (all): 3.531
Average AS Path Length (v4): 3.669
Average AS Path Length (v6): 3.255

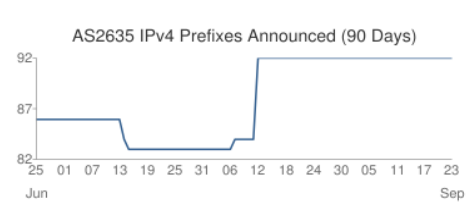


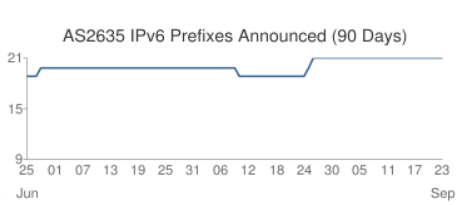
ASN	Name
AS2914	NTT America, Inc.
AS13768	Peer 1 Network (USA) Inc.
AS37100	SEACOM Limited
AS1299	Telia Company AB
AS7922	Comcast Cable Communications, LLC
AS6939	Hurricane Electric, Inc.

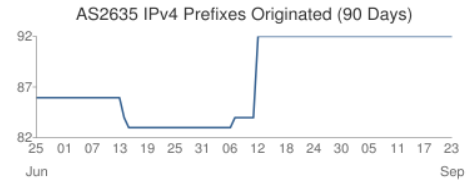


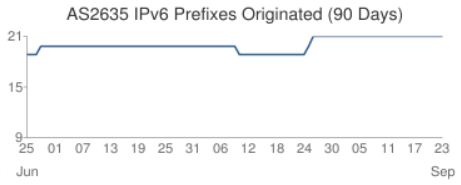
ASN	Name
AS2914	NTT America, Inc.
AS37100	SEACOM Limited
AS6939	Hurricane Electric, Inc.
AS1299	Telia Company AB
AS7922	Comcast Cable Communications, LLC











Wordpress sendiri memili IPv4 dan IPv6 yang masing-masing memiliki banyak peers atau ASN (AS Number). Semakin banyak peers maka semakin baik website tersebut. Serta jika website tersebut menggunakan IPv6 maka koneksi semakin baik.

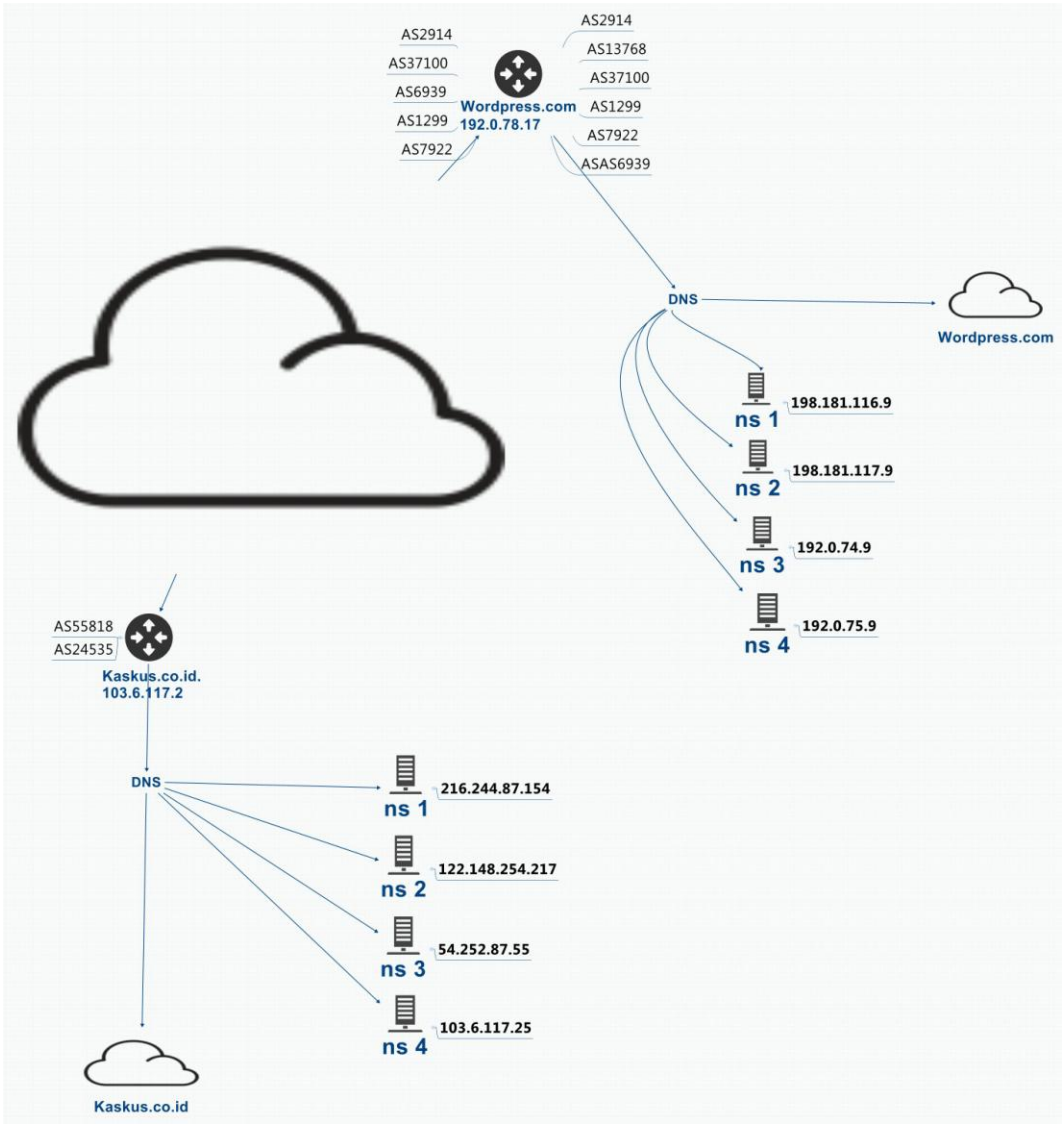
Results for wordpress.com

First 500 sites returned

	Site	Site Report	First seen	Netblock	OS
1.	wordpress.com		november 2006	automattic, inc	linux
2.	beleben.wordpress.com		april 2011	automattic, inc	linux
3.	kenarah.wordpress.com		june 2011	automattic, inc	linux
4.	en.support.wordpress.com		febuary 2010	automattic, inc	linux
5.	mundabor.wordpress.com		september 2010	automattic, inc	linux
6.	peterh45.wordpress.com		september 2014	automattic, inc	unknown
7.	whyevolutionistrue.wordpress.com		july 2009	automattic, inc	linux
8.	deveghepatriei.wordpress.com		june 2011	automattic, inc	linux
9.	markussesko.wordpress.com		december 2013	automattic, inc	unknown
10.	yoraikun.wordpress.com		december 2014	automattic, inc	linux
11.	mknn.wordpress.com		october 2013	automattic, inc	linux
12.	parapentebierzo.wordpress.com		october 2013	automattic, inc	unknown
13.	rudighedini.wordpress.com		febuary 2012	automattic, inc	linux
14.	www.wordpress.com		january 1997	automattic, inc	linux
15.	jetpack.wordpress.com		april 2012	automattic, inc	linux
16.	lamarzulli.wordpress.com		september 2008	automattic, inc	linux
17.	diydata.wordpress.com		november 2008	automattic, inc	unknown
18.	sensuouscurmudgeon.wordpress.com		june 2008	automattic, inc	linux
19.	gentlemancrafter.wordpress.com		march 2013	automattic, inc	linux
20.	talesfromthecards.wordpress.com		febuary 2013	automattic, inc	linux

Next page

Dapat dilihat pada capture, bahwa Wordpress mengoprasikan servernya pada tahun 2006.

Dapat saya bedakan bahwa DNS Wordpress lebih baik karna menggunakan banyak peers juga menggunakan IPv4 dan IPv6 sebagai protokolnya. Sebaliknya, kaskus masih menggunakan protocol IPv4 sampai sekarang.

Berikut adalah hasil gambar dari ke dua website yang saya analisa