

# **TASK 6 JARINGAN KOMPUTER**



Disusun oleh :

**Nama** : Ilham Kholifah M

**NIM** : 09011281419043

**JURUSAN SISTEM KOMPUTER  
FAKULTAS ILMU KOMPUTER  
UNIVERSITAS SRIWIJAYA  
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## INTROGASI DNS (DOMAIN NAME SERVICES)

Pertama-tama lakukan pencarian alamat IP dari website yang dituju dengan menggunakan ping dari command line, disini penulis menggunakan website <http://ruanghati.com> dan didapatkan hasil seperti gambar di bawah ini

```
[sklibur@fukamuori iamkfm]$ sudo ping ruanghati.com
[sudo] password for sklibur:
PING ruanghati.com (116.251.209.241) 56(84) bytes of data:
64 bytes from 116.251.209.241 (116.251.209.241): icmp_seq=1 ttl=52 time=350 ms
64 bytes from 116.251.209.241 (116.251.209.241): icmp_seq=2 ttl=52 time=77.7 ms
64 bytes from 116.251.209.241 (116.251.209.241): icmp_seq=3 ttl=52 time=67.0 ms
^C
--- ruanghati.com ping statistics ---
3 packets transmitted, 3 received, 0% packet loss, time 11420ms
rtt min/avg/max/mdev = 67.041/164.991/350.133/130.988 ms
```

Dan gambar dibawah ini juga merupakan rute yang dilalui oleh source untuk sampai ke destination, penulis menggunakan Visual Trace Route untuk mengetahui rutanya.

#	Country	Town	Lat	Lon	IP	Hostname	L...	D...	Di...	..
1	Indonesia	Medan	3.5832977	98.66669	192.168.43.1	gateway	2	~	0	?
2	Indonesia	(Unknown)	-6.175003	106.82861	118.98.84.113	118.98.84.113	107	~	1415	?
3	Singapore	(Unknown)	1.3666992	103.79999	180.240.193.158	180.240.193.158	122	~	904	?
4	Singapore	(Unknown)	1.3666992	103.79999	180.240.193.157	180.240.193.157	128	~	0	?
5	Singapore	(Unknown)	1.3666992	103.79999	180.240.204.40	180.240.204.40	137	~	0	?
6	Singapore	(Unknown)	1.3666992	103.79999	180.240.204.47	180.240.204.47	148	~	0	?
7	Singapore	(Unknown)	1.3666992	103.79999	103.16.102.30	103.16.102.30	154	~	0	?
8	Singapore	Singapore	1.2931061	103.855804	203.175.175.53	203.175.175.53	221	~	10	?
9	Singapore	Singapore	1.2931061	103.855804	203.175.175.132	203.175.175.132	170	~	0	?
10	Singapore	Singapore	1.2931061	103.855804	203.175.175.40	203.175.175.40	170	~	0	?
11	Singapore	(Unknown)	1.3666992	103.79999	116.251.208.245	116.251.208.245	171	~	10	?

website yang telah penulis ping memiliki alamat IP 116.251.209.241. Langkah selanjutnya yaitu lakukan penyelidikan beberapa informasi seperti letak server hostingan website tersebut dan DNS. Penulis menggunakan <http://network-tools.com> dengan memasukkan alamat IP dari website yang dituju.

```
116.251.209.241 is from Singapore (SG) in region Southern and Eastern Asia
Input: 116.251.209.241
canonical name: ns2.kreasimediaonline.com
Registered Domain: kreasimediaonline.com
```

Dari informasi diatas dapat diamati bahwa letak server dari website <http://ruanghati.com> berada di Singapura dan terdaftar di Domain kreasimediaonline.com

Retrieving DNS records for ns2.kreasimediaonline.com...

**DNS servers**

ns2.kreasimediaonline.com [116.251.209.241]  
ns5.kreasimediaonline.com [116.251.211.14]  
ns1.kreasimediaonline.com [116.251.209.24]

**Answer records**

ns2.kreasimediaonline.com	A	116.251.209.241	14400s
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**Authority records**

kreasimediaonline.com	NS	ns1.kreasimediaonline.com	14400s
kreasimediaonline.com	NS	ns5.kreasimediaonline.com	14400s
kreasimediaonline.com	NS	ns2.kreasimediaonline.com	14400s

**Additional records**

ns1.kreasimediaonline.com	A	116.251.209.24	14400s
ns5.kreasimediaonline.com	A	116.251.211.14	14400s

Whois query for kreasimediaonline.com...

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

Whois Server Version 2.0

Server DNS dari website tersebut memiliki 3 ns, ns1 memiliki alamat IP 116.251.209.24 ns2 memiliki alamat IP 116.251.209.241 ns5 memiliki alamat IP 116.251.211.14

Setelah melihat alamat IP server website tersebut dan letak servernya, selanjutnya lakukan pencarian Automation System (AS) dengan melukan pencarian alamat IP website di <http://bgp.he.net> pilih IP info dan dapat dilihat AS dari website tersebut, dalam kasus ini website <http://ruanghati.com> melalui AS24482.

The screenshot shows the Hurricane Electric Internet Services website interface. At the top left is the HE logo. To its right, the text "HURRICANE ELECTRIC INTERNET SERVICES" is displayed. Below this, the domain "ruanghati.com" is entered into a search box. A search button is visible. Below the search box, there are tabs for "DNS Info", "Website Info", "IP Info", and "Whois". The "IP Info" tab is selected, showing the IP address "116.251.209.241" and its associated AS information: "116.251.209.241 > 116.251.208.0/20 > AS24482 > SG.GS". Below the IP info, there is a timestamp: "Updated 23 Sep 2016 11:50 PST © 2016 Hurricane Electric". On the left side of the page, there is a "Quick Links" menu with various links such as "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", and "Contact Us".

Company Website:  
Company Looking Glass:

<http://www.sg.gs>  
<http://network.sg.gs/lq/>

Country of Origin:

Singapore



Internet Exchanges: 28

Prefixes Originated (all): 18  
Prefixes Originated (v4): 16  
Prefixes Originated (v6): 2

Prefixes Announced (all): 206  
Prefixes Announced (v4): 193  
Prefixes Announced (v6): 13

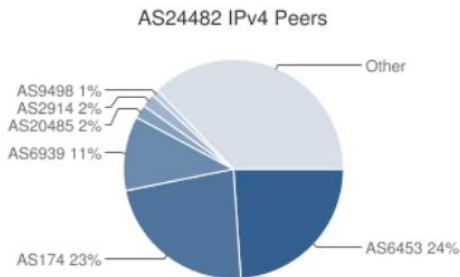
BGP Peers Observed (all): 2,851  
BGP Peers Observed (v4): 2,805  
BGP Peers Observed (v6): 1,756

IPs Originated (v4): 18,432  
AS Paths Observed (v4): 109,765  
AS Paths Observed (v6): 20,567

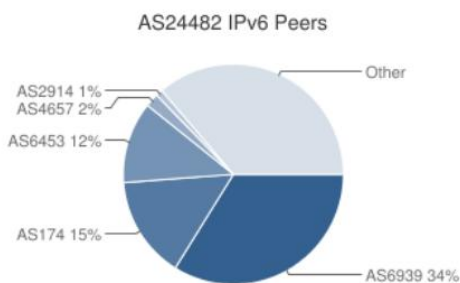
Average AS Path Length (all): 4.079  
Average AS Path Length (v4): 4.141  
Average AS Path Length (v6): 3.744



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ASN	Name
AS6453	TATA COMMUNICATIONS (AMERICA) INC
AS174	Cogent Communications
AS6939	Hurricane Electric, Inc.
AS20485	Closed Joint Stock Company TransTeleCom
AS2914	NTT America, Inc.
AS9498	Bharti Airtel Ltd



ASN	Name
AS6939	Hurricane Electric, Inc.
AS174	Cogent Communications
AS6453	TATA COMMUNICATIONS (AMERICA) INC
AS4657	StarHub Internet Exchange
AS2914	NTT America, Inc.

Dari gambar di atas dapat dilihat peering website <http://ruanghati.com> terdapat 6 peering yang dapat dilalui yang menandakan bahwa akses ke website tersebut sangat baik karena semakin banyak peers yang dimiliki semakin baik jaringan yang dilalui dari source to destination.