

LAMPIRAN

Lampiran 1. File Pacht dan konfigurasi BIND

- **File Patch BIND**

Dengan melakukan patch terhadap BIND maka akan dapat menambah kemampuan bind dalam melakukan pemfilteran terhadap query informasi sebuah domain. Dengan integrasi ini, memungkinkan option view pada bind dengan konfigurasi kode negara. Patch ini akan memdofikasi file :

- lib/dns/include/dns/acl.h, pada file ini akan dilakukan penambahan jenis baru dari access control list (acl) yaitu dns_aclelementtype_ipcountry
- lib/dns/acl.c, dns_aclelement_match untuk menambahkan fungsi pencocokan terhadap jenis ipcountry dari komponen access control list (acl)
- lib/isccfg/parser.c, untuk meakukan parsing jenis baru dari access control list (acl) terhadap file konfigurasi.

Berikut adalah 40 baris file pacht BIND agar dapat di integrasikan dengan Maxmind's GeoIP Database.

```
diff -ruN bind-9.4.1-P1.orig/lib/dns/acl.c bind-9.4.1-
P1/lib/dns/acl.c
--- bind-9.4.1-P1.orig/lib/dns/acl.c   Thu Mar  2 01:37:21 2006
+++ bind-9.4.1-P1/lib/dns/acl.c       Tue Aug 14 16:56:34 2007
@@ -21,12 +21,15 @@
 #include <config.h>
+#include <GeoIP.h>
 #include <isc/mem.h>
 #include <isc/string.h>
 #include <isc/util.h>
 #include <dns/acl.h>
+static GeoIP *geoip = NULL;
+
+   isc_result_t
+   dns_acl_create(isc_mem_t *mctx, int n, dns_acl_t **target) {
+       isc_result_t result;
@@ -207,6 +210,27 @@
                                     &e->u.ip_prefix.address,
                                     e->u.ip_prefix.prefixlen))
+
+           goto matched;
+
+       break;
+
+       case dns_aclelementtype_ipcountry:
+           /* We only match V4 addresses */
```

```

+         if (reqaddr->family == AF_INET) {
+             /* Country match */
+
+             if (NULL == geoip) {
+                 geoip =
GeoIP_new(GEOIP_MEMORY_CACHE);
+                 }
+             if (NULL != geoip) {
+                 const char *value;
+
+                 value =
GeoIP_country_code_by_addr(geoip,inet_ntoa(reqaddr->type.in));
+                 if ((NULL != value) && (2 ==
strlen(value))) {
+
+                     if ((e->u.country[0] ==
value[0]) && (e->u.country[1] == value[1])) {
+
+                         goto matched;
+                     }
+                 }
+             }
+         }
+         break;
+         case dns_aclelementtype_keyname:
diff -ruN bind-9.4.1-P1.orig/lib/dns/include/dns/acl.h bind-9.4.1-
P1/lib/dns/include/dns/acl.h
--- bind-9.4.1-P1.orig/lib/dns/include/dns/acl.h      Thu Mar  2
01:37:21 2006
+++ bind-9.4.1-P1/lib/dns/include/dns/acl.h          Tue Aug 14 16:58:28
2007
@@ -47,6 +47,7 @@
typedef enum {
+     dns_aclelementtype_ipprefix,
+     dns_aclelementtype_ipcountry,
+     dns_aclelementtype_keyname,
+     dns_aclelementtype_nestedacl,
+     dns_aclelementtype_localhost,
@@ -55,6 +56,7 @@
} dns_aclelementtype_t;

typedef struct dns_aclipprefix dns_aclipprefix_t;
+typedef char dns_aclipcountry[3];

struct dns_aclipprefix {
+     isc_netaddr_t address; /* IP4/IP6 */
@@ -66,6 +68,7 @@
+     isc_boolean_t negative;
+     union {
+         dns_aclipprefix_t ip_prefix;
+         dns_aclipcountry    country;
+         dns_name_t          keyname;
+         dns_acl_t           *nestedacl;
+     } u;
diff -ruN bind-9.4.1-P1.orig/lib/iscconf/aclconf.c bind-9.4.1-
P1/lib/iscconf/aclconf.c
--- bind-9.4.1-P1.orig/lib/iscconf/aclconf.c        Thu Mar  2 01:37:22
2006
+++ bind-9.4.1-P1/lib/iscconf/aclconf.c             Tue Aug 14 16:51:48 2007
@@ -228,6 +228,12 @@

```

```

        } else if (strcasecmp(name, "none") == 0)
    {
        de->type = dns_aclelementtype_any;
        de->negative = ISC_TF(! de-
>negative);
+           } else if ((0 == (strncmp("country_", name,
+ 8))) && (10 == strlen(name))) {
+           /* It is a country code */
+           de->type =
dns_aclelementtype_ipcountry;
+           de->u.country[0] = name[9];
+           de->u.country[1] = name[10];
+           de->u.country[2] = '\0';
        } else {
            de->type =
dns_aclelementtype_nestedacl;
            result = convert_named_acl(ce,
cctx, lctx,

```

Instalasi BIND beserta patch GeoIP

Langkah-langkah yang harus dilakukan dalam instalasi GeoDNS menggunakan bind adalah sebagai berikut :

Download Source File

- <http://www.caraytech.com/geodns/bind-9.2.4-geodns-patch.tar.gz>
- <http://www.maxmind.com/download/geoip/api/c/GeoIP.tar.gz>
- <ftp://ftp.isc.org/isc/bind9/9.2.4/bind-9.2.4.tar.gz>

Unpack File

- Unpack file ke dalam direktory `/usr/local/src/`
- Compile dan Install GeoIP kedalam direktory `/usr/local/geoip`
 - o `./configure --prefix=/usr/local/geoip`
 - o `make`
 - o `make check`
 - o `make install`

Install bind

- `cd /usr/local/src`
- `tar -xvzf bind-9.2.4.tar.gz`
- `cd bind-9.2.4`
- `patch -p1 < ../bind-9.2.4-geodns-patch/patch.diff`
- di fedora `[root@IS-2600 bind-9.2.4]# yum install geoip`
- ini baru mau
- `CFLAGS="-I/usr/local/geoip/include" LDFLAGS="-L/usr/local/geoip/lib -lGeoIP" ./configure -prefix=/usr/local/bind`
- `make && make install`

- **File Konfigurasi BIND**

Ada lima file yang di butuhkan dalam melakukan konfigurasi BIND, namun semua file konfigurasi pada dasarnya membutuhkan tiga file yaitu:

- File konfigurasi named, atau file named.conf mendefenisikan parameter dasar dan menunjuk ke file informasi database domain.
- File hints, hints atau cache yaitu file yang menyediakan nama dan alamat dari root server yang akan di gunakan.
- File host local, yaitu file yang berisi konfigurasi dan informasi tentang localhost atau alamat loopback

Dua file lainnya digunakan untuk melakukan konfigurasi name server sebagai primary (master) server, yaitu:

- File zone, file zone ini mendefinisikan informasi dan pemetaan dari nama host menjadi alamat IP, informasi server email (MX atau Mail eXchanger), informasi domain dan sebagainya.
- File zone reverse, yaitu file yang memetakan alamat IP menjadi nama host.

Konfigurasi file named.conf yang digunakan untuk percobaan.

```
options {
    directory "/var/named";
    allow-transfer { 202.152.18.0/24; };
    pid-file "/var/named/named.pid";
};
logging {
    category lame-servers { null; };
};
zone "." IN {
    type hint;
    file "named.root";
};
zone "localhost" IN {
    type master;
    file "db.localhost";
    allow-update { none; };
};
zone "0.0.127.in-addr.arpa" IN {
    type master;
    file "db.127.0.0";
    allow-update { none; };
};

;pengelompokan untuk negara-negara dari benua australia
view "au" {
    match-clients {
```

```

        country_AS; country_AU; country_CK; country_FJ;
        country_FM; country_GU; country_KI; country_MH;
        country_MP; country_NC; country_NF; country_NR;
        country_NU; country_NZ; country_PF; country_PG;
        country_PW; country_SB; country_TK; country_TO;
        country_TV; country_UM; country_VI; country_VU;
        country_WF; country_WS;
    };
zone "my-indonesia.info" {
    type master;
    file "db.au.my-indonesia.info";
};
zone "." IN {
    type hint;
    file "named.root";
};
};

;pengelompokan untuk negara-negara dari benua amerika
view "us" {
    match-clients {
        country_AG; country_AI; country_AN; country_AR;
        country_AW; country_BB; country_BM; country_BO;
        country_BR; country_BS; country_BZ; country_CA;
        country_CL; country_CO; country_CR; country_CU;
        country_DM; country_DO; country_EC; country_FK;
        country_GD; country_GF; country_GL; country_GP;
        country_GT; country_GY; country_HN; country_HT;
        country_JM; country_KN; country_KY; country_LC;
        country_MQ; country_MS; country_MX; country_NI;
        country_PA; country_PE; country_PR; country_PY;
        country_SR; country_SV; country_TT; country_US;
        country_UY; country_VC; country_VE; country_VG;
    };
    zone "my-indonesia.info" {
        type master;
        file "db.us.my-indonesia.info";
    };
    zone "." IN {
        type hint;
        file "named.root";
    };
};

;pengelompokan untuk negara-negara dari benua eropa
view "uk" {
    match-clients {
        country_DZ; country_AO; country_BJ; country_BW;
        country_BF; country_BI; country_CM; country_CV;
        country_CF; country_TD; country_KM; country_CG;
        country_CI; country_DJ; country_EG; country_GQ;
        country_ER; country_ET; country_GA; country_GM;
        country_GH; country_GN; country_GW; country_KE;
        country_LS; country_LR; country_LY; country_MG;
        country_MW; country_ML; country_MR; country_MU;
        country_YT; country_MA; country_MZ; country_NA;
        country_NE; country_NG; country_RE; country_RW;
        country_ST; country_SN; country_SC; country_SL;
    };
};

```

```

country_SO; country_ZA; country_SD; country_SZ;
country_CD; country_TG; country_TN; country_UG;
country_TZ; country_ZM; country_ZW; country_AD;
country_AL; country_AT; country_BA; country_BE;
country_BG; country_BY; country_CH; country_CS;
country_CY; country_CZ; country_DE; country_DK;
country_EE; country_ES; country_FI; country_FO;
country_FR; country_GB; country_GI; country_GR;
country_HR; country_HU; country_IE; country_IS;
country_IT; country_LI; country_LT; country_LU;
country_LV; country_MC; country_MD; country_MK;
country_MT; country_NL; country_NO; country_PL;
country_PT; country_RO; country_RU; country_SE;
country_SI; country_SK; country_SM; country_UA;
country_VA;
};
zone "my-indonesia.info" {
    type master;
    file "db.uk.my-indonesia.info";
};
zone "." IN {
    type hint;
    file "named.root";
};
};

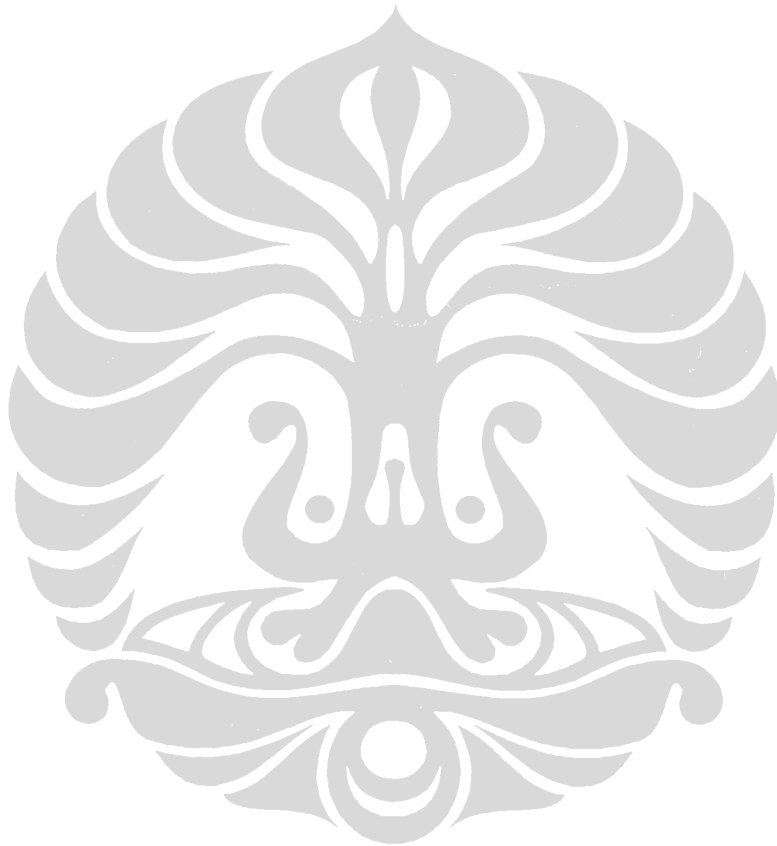
;pengelompokan untuk negara-negara dari benua asia
view "sg" {
    match-clients {
country_AF; country_AE; country_AM; country_AZ;
country_BD; country_BH; country_BN; country_BT;
country_CN; country_GE; country_HK; country_ID;
country_IL; country_IN; country_IO; country_IQ;
country_IR; country_JO; country_JP; country_KG;
country_KH; country_KR; country_KW; country_KZ;
country_LA; country_LB; country_LK; country_MM;
country_MN; country_MO; country_MV; country_MY;
country_NP; country_OM; country_PH; country_PK;
country_PS; country_QA; country_SA; country_SG;
country_SY; country_TH; country_TJ; country_TL;
country_TM; country_TR; country_TW; country_UZ;
country_VN; country_YE;
};
zone "my-indonesia.info" {
    type master;
    file "db.sg.my-indonesia.info";
};
zone "." IN {
    type hint;
    file "named.root";
};
};

;pengelompokan untuk negara-negara yang IP Address yang
;tidak terdaftar maka informasi zone untuk domain
;my-indonesia.info akan dimabil dari file db.other.my-
;indonesia.info

view "other" {

```

```
match-clients { any; };  
zone "my-indonesia.info" {  
    type master;  
    file "db.other.my-indonesia.info";  
};  
zone "." IN {  
    type hint;  
    file "named.root";  
};  
};
```



Daftar Kode Negara

CTRY	CNTRY	Country Name
AF	AFG	AFGHANISTAN
AL	ALB	ALBANIA
DZ	DZA	ALGERIA
AS	ASM	AMERICAN SAMOA
AD	AND	ANDORRA
AO	AGO	ANGOLA
AI	AIA	ANGUILLA
AQ	ATA	ANTARCTICA
AG	ATG	ANTIGUA AND BARBUDA
AR	ARG	ARGENTINA
AM	ARM	ARMENIA
AW	ABW	ARUBA
AU	AUS	AUSTRALIA
AT	AUT	AUSTRIA
AZ	AZE	AZERBAIJAN
BS	BHS	BAHAMAS
BH	BHR	BAHRAIN
BD	BGD	BANGLADESH
BB	BRB	BARBADOS
BY	BLR	BELARUS
BE	BEL	BELGIUM
BZ	BLZ	BELIZE
BJ	BEN	BENIN
BM	BMU	BERMUDA
BT	BTN	BHUTAN
BO	BOL	BOLIVIA
BA	BIH	BOSNIA AND HERZEGOVINA
BW	BWA	BOTSWANA
BR	BRA	BRAZIL
IO	IOT	BRITISH INDIAN OCEAN TERRITORY
BN	BRN	BRUNEI DARUSSALAM
BG	BGR	BULGARIA
BF	BFA	BURKINA FASO
BI	BDI	BURUNDI
KH	KHM	CAMBODIA
CM	CMR	CAMEROON
CA	CAN	CANADA
CV	CPV	CAPE VERDE
KY	CYM	CAYMAN ISLANDS
CF	CAF	CENTRAL AFRICAN REPUBLIC
TD	TCD	CHAD
CL	CHL	CHILE
CN	CHN	CHINA
CO	COL	COLOMBIA
KM	COM	COMOROS
CG	COG	CONGO
CK	COK	COOK ISLANDS
CR	CRI	COSTA RICA
CI	CIV	COTE D'IVOIRE

HR	HRV	CROATIA
CU	CUB	CUBA
CY	CYP	CYPRUS
CZ	CZE	CZECH REPUBLIC
DK	DNK	DENMARK
DJ	DJI	DJIBOUTI
DM	DMA	DOMINICA
DO	DOM	DOMINICAN REPUBLIC
EC	ECU	ECUADOR
EG	EGY	EGYPT
SV	SLV	EL SALVADOR
GQ	GNQ	EQUATORIAL GUINEA
ER	ERI	ERITREA
EE	EST	ESTONIA
ET	ETH	ETHIOPIA
FK	FLK	FALKLAND ISLANDS (MALVINAS)
FO	FRO	FAROE ISLANDS
FM	FSM	FEDERATED STATES OF MICRONESIA
FJ	FJI	FIJI
FI	FIN	FINLAND
FR	FRA	FRANCE
GF	GUF	FRENCH GUIANA
PF	PYF	FRENCH POLYNESIA
GA	GAB	GABON
GM	GMB	GAMBIA
GE	GEO	GEORGIA
DE	DEU	GERMANY
GH	GHA	GHANA
GI	GIB	GIBRALTAR
GR	GRC	GREECE
GL	GRL	GREENLAND
GD	GRD	GRENADA
GP	GLP	GUADELOUPE
GU	GUM	GUAM
GT	GTM	GUATEMALA
GN	GIN	GUINEA
GW	GNB	GUINEA-BISSAU
GY	GUY	GUYANA
HT	HTI	HAITI
VA	VAT	HOLY SEE (VATICAN CITY STATE)
HN	HND	HONDURAS
HK	HKG	HONG KONG
HU	HUN	HUNGARY
IS	ISL	ICELAND
IN	IND	INDIA
ID	IDN	INDONESIA
IQ	IRQ	IRAQ
IE	IRL	IRELAND
IR	IRN	ISLAMIC REPUBLIC OF IRAN
IL	ISR	ISRAEL
IT	ITA	ITALY
JM	JAM	JAMAICA

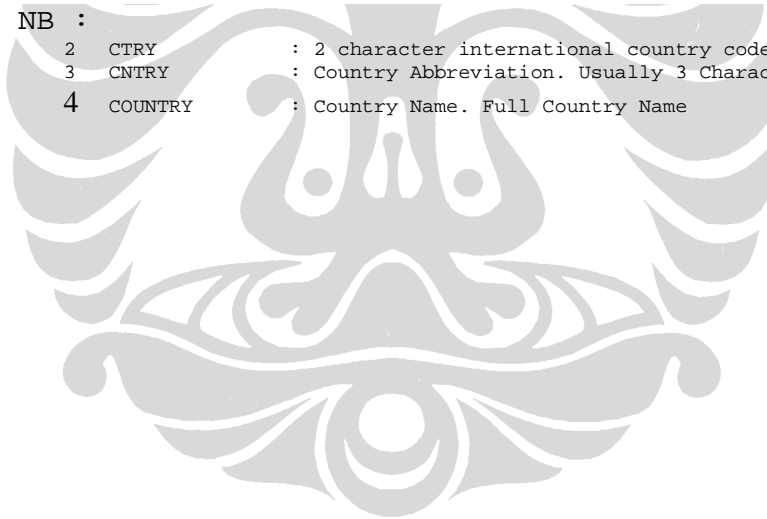
JP	JPN	JAPAN
JO	JOR	JORDAN
KZ	KAZ	KAZAKHSTAN
KE	KEN	KENYA
KI	KIR	KIRIBATI
KW	KWT	KUWAIT
KG	KGZ	KYRGYZSTAN
LA	LAO	LAO PEOPLE'S DEMOCRATIC REPUBLIC
LV	LVA	LATVIA
LB	LBN	LEBANON
LS	LSO	LESOTHO
LR	LBR	LIBERIA
LY	LBY	LIBYAN ARAB JAMAHIRIYA
LI	LIE	LIECHTENSTEIN
LT	LTU	LITHUANIA
LU	LUX	LUXEMBOURG
MO	MAC	MACAO
MG	MDG	MADAGASCAR
MW	MWI	MALAWI
MY	MYS	MALAYSIA
MV	MDV	MALDIVES
ML	MLI	MALI
MT	MLT	MALTA
MH	MHL	MARSHALL ISLANDS
MQ	MTQ	MARTINIQUE
MR	MRT	MAURITANIA
MU	MUS	MAURITIUS
YT	MYT	MAYOTTE
MX	MEX	MEXICO
MC	MCO	MONACO
MN	MNG	MONGOLIA
MS	MSR	MONTSERRAT
MA	MAR	MOROCCO
MZ	MOZ	MOZAMBIQUE
MM	MMR	MYANMAR
NA	NAM	NAMIBIA
NR	NRU	NAURU
NP	NPL	NEPAL
NL	NLD	NETHERLANDS
AN	ANT	NETHERLANDS ANTILLES
NC	NCL	NEW CALEDONIA
NZ	NZL	NEW ZEALAND
NI	NIC	NICARAGUA
NE	NER	NIGER
NG	NGA	NIGERIA
NU	NIU	NIUE
NF	NFK	NORFOLK ISLAND
MP	MNP	NORTHERN MARIANA ISLANDS
NO	NOR	NORWAY
OM	OMN	OMAN
PK	PAK	PAKISTAN
PW	PLW	PALAU

PS	PSE	PALESTINIAN TERRITORY, OCCUPIED
PA	PAN	PANAMA
PG	PNG	PAPUA NEW GUINEA
PY	PRY	PARAGUAY
PE	PER	PERU
PH	PHL	PHILIPPINES
PL	POL	POLAND
PT	PRT	PORTUGAL
PR	PRI	PUERTO RICO
QA	QAT	QATAR
KR	KOR	REPUBLIC OF KOREA
MD	MDA	REPUBLIC OF MOLDOVA
RE	REU	REUNION
RO	ROM	ROMANIA
RU	RUS	RUSSIAN FEDERATION
RW	RWA	RWANDA
KN	KNA	SAINT KITTS AND NEVIS
LC	LCA	SAINT LUCIA
VC	VCT	SAINT VINCENT AND THE GRENADINES
WS	WSM	SAMOA
SM	SMR	SAN MARINO
ST	STP	SAO TOME AND PRINCIPE
SA	SAU	SAUDI ARABIA
SN	SEN	SENEGAL
CS	SCG	SERBIA AND MONTENEGRO
SC	SYC	SEYCHELLES
SL	SLE	SIERRA LEONE
SG	SGP	SINGAPORE
SK	SVK	SLOVAKIA
SI	SVN	SLOVENIA
SB	SLB	SOLOMON ISLANDS
SO	SOM	SOMALIA
ZA	ZAF	SOUTH AFRICA
GS	SGS	SOUTH GEORGIA AND THE SOUTH SANDWICH ISLANDS
ES	ESP	SPAIN
LK	LKA	SRI LANKA
SD	SDN	SUDAN
SR	SUR	SURINAME
SZ	SWZ	SWAZILAND
SE	SWE	SWEDEN
CH	CHE	SWITZERLAND
SY	SYR	SYRIAN ARAB REPUBLIC
TW	TWN	TAIWAN
TJ	TJK	TAJIKISTAN
TH	THA	THAILAND
CD	COD	THE DEMOCRATIC REPUBLIC OF THE CONGO
MK	MKD	THE FORMER YUGOSLAV REPUBLIC OF MACEDONIA
TL	TLS	TIMOR-LESTE
TG	TGO	TOGO
TK	TKL	TOKELAU
TO	TON	TONGA
TT	TTO	TRINIDAD AND TOBAGO

TN	TUN	TUNISIA
TR	TUR	TURKEY
TM	TKM	TURKMENISTAN
TV	TUV	TUVALU
UG	UGA	UGANDA
UA	UKR	UKRAINE
AE	ARE	UNITED ARAB EMIRATES
GB	GBR	UNITED KINGDOM
TZ	TZA	UNITED REPUBLIC OF TANZANIA
US	USA	UNITED STATES
UM	UMI	UNITED STATES MINOR OUTLYING ISLANDS
UY	URY	URUGUAY
UZ	UZB	UZBEKISTAN
VU	VUT	VANUATU
VE	VEN	VENEZUELA
VN	VNM	VIET NAM
VG	VGB	VIRGIN ISLANDS, BRITISH
VI	VIR	VIRGIN ISLANDS, U.S.
WF	WLF	WALLIS AND FUTUNA
YE	YEM	YEMEN
ZM	ZMB	ZAMBIA
ZW	ZWE	ZIMBABWE

NB :

2	CTRY	: 2 character international country code
3	CNTRY	: Country Abbreviation. Usually 3 Character representation
4	COUNTRY	: Country Name. Full Country Name



Lampiran 2. File Informasi database name server

Berikut beberapa keterangan file konfigurasi informasi zone yang digunakan untuk percobaan:

- **Start of Authority Record (SOA)**

Fungsi Mendefinisikan hostname yang merupakan awal dari suatu zone. Untuk setiap zone hanya mempunyai sebuah SOA. SOA biasanya dideklarasikan pada awal zona file.

```
Format [zone] IN SOA origin contact (  
serial  
refresh  
retry  
expire  
minimum  
)
```

Komponen SOA record terdiri dari:

- *Zone*, mendefinisikan zone dari sebuah domain
- *Origin*, Mendeklarasikan hostname yang merupakan primary master server untuk domain.
- *Contact*, Mendeklarasikan e-mail address administrator yang bertanggung-jawab terhadap domain.
- *Serial*, Merupakan nomor seri dari zona file. Serial number ini harus bertambah setiap ada perubahan data pada zona file. Serial number ini digunakan oleh secondary server untuk melakukan pengecekan apakah ada perubahan zona file pada primary server.
- *Refresh*, Komponen ini mendeklarasikan selang waktu (dalam detik) yang diperlukan oleh secondary server untuk melakukan pengecekan terhadap perubahan zona file pada primary server.
- *Retry*, Komponen ini menentukan berapa lama (dalam detik) secondary server menunggu untuk mengulang pengecekan terhadap primary server apabila primary server tidak memberikan respon pada saat proses refresh.

- *Expire*, Komponen ini menentukan berapa lama (dalam detik) zona file dipertahankan pada secondary server apabila secondary server tidak dapat melakukan zona refresh.
- *Minimum*, Komponen ini menentukan nilai default time to live (ttl) untuk semua resource record pada zona file. Sebaiknya nilai ini dibuat sebesar mungkin, karena jarang sekali perubahan pada suatu hostname begitu hostname tersebut diberi IP address dan MX record.

- **Name Server Record (NS)**

Fungsi NS record merupakan identifikasi authoritative server untuk suatu zona. Authoritative server untuk suatu zona sebaiknya lebih dari satu sebagai tindakan preventif apabila primary master server tidak bisa diakses oleh secondary server.

Format `[domain] IN NS server`

Komponen Name Server Record:

- *domain* Authoritative server untuk domain ini adalah DNS server yang tertulis pada komponen *server*.
- *server* Hostname dari komputer yang merupakan authoritative DNS server untuk domain yang tercantum pada komponen *domain*. Komponen ini ditulis secara FQDN.

- **Address Record (A)**

Fungsi Untuk memetakan hostname ke IP address.

Format `[host] IN A address`

Komponen Address Record:

- *Host*, Nama host yang hostnya seperti yang tercantum pada komponen Address, hostname ditulis relatif terhadap domain dari host tersebut.

- *Address*, adalah IP address untuk host dan ditulis dalam bentuk *dotted-decimal*.

Suatu host yang bersifat multihoming, yaitu host yang terhubung ke beberapa network dengan menggunakan lebih dari satu network interface maka record address host tersebut dapat lebih dari satu.

2. Mail Exchanger Record (MX)

Fungsi MX record digunakan untuk meredirect mail untuk suatu host ataupun suatu domain ke host yang berfungsi sebagai mail server. MX record sangat berguna untuk suatu domain yang tidak menjalankan mail software. Mail yang ditujukan untuk host-host yang terdapat pada domain ini akan di redirect ke host yang menjalankan mail software.

Format `[name] IN MX preference host`

Komponen Mail Exchanger:

- *Name*, Hostname ataupun domain tujuan pengiriman mail. Bila tujuan pengiriman adalah suatu domain pada suatu zona file, maka bagian ini cukup dikosongkan.
 - *Preference*, Menentukan tingkat prioritas mail server yang akan digunakan untuk menredirect mail ke name. Sebuah host ataupun suatu domain bisa mempunyai beberapa mail server dan mail server yang digunakan pertama kali adalah mail server dengan prioritas treating dan apabila mail server ini gaggle dihubungi maka digunakan prioritas berikutnya dan demikian seterusnya. Mail server dengan preference tournedos merupakan prioritas treating.
 - *Host*, Adalah hostname dari mail server yang digunakan untuk menredirect mail ke host ataupun domain yang didefenisikan pada field name.
- **Canonical Name Record (CNAME)**

Fungsi Mendefenisikan alias name atau nickname untuk suatu host.

Format *nickname* **IN CNAME** *host*

Komponen dari Canonical Name Record adalah:

- *Nickname*, Adalah alias nama untuk host yang tercantum pada *filed host*
- *Host*, Hostname yang alias namanya tercantum pada field *nickname*. Hostname harus ditulis secara FQDN dan tidak boleh merupakan alias name.

File konfigurasi db.127.0.0

```
$TTL 86400
@ IN SOA localhost. root.localhost. (
    2003021500 ; serial
    28800 ; refresh
    14400 ; retry
    3600000 ; expiry
    86400 ) ; minimum
1 IN NS localhost.
1 IN PTR localhost.
```

o File konfigurasi db.localhost

```
$TTL 86400
$ORIGIN localhost.
@ IN SOA localhost. root.localhost. (
    2003021500 ; serial
    28800 ; refresh
    14400 ; retry
    3600000 ; expiry
    86400 ) ; minimum

IN NS localhost.
IN A 127.0.0.1
```

File konfigurasi db.us.my-indonesia.info

```
$TTL 86400
$ORIGIN my-indonesia.info.
@ IN SOA gslbl.indo.com. hostmaster.my-
indonesia.info. (
    2007082301 ; Serial
    10800 ; Refresh
    3600 ; Retry
    3600000 ; Expire
    86400 ) ; Minimum

IN NS gslbl.indo.com.
IN NS gslb2.indo.com.
IN MX 10 mail.my-indonesia.info.
```



```
#####
# GSLB for my-indonesia.info
#####
@      IN      A      64.38.56.178
www    IN      CNAME   @
indo   IN      CNAME   @

au     IN      A      203.89.95.140
uk     IN      A      87.117.224.155
sg     IN      A      203.211.140.139
us     IN      A      64.38.56.178
```

```
#####
# Name Server for my-indonesia.info
#####
ns1    IN      A      87.117.224.155
ns2    IN      A      203.89.95.140
```

```
#####
# Mail Server Indo.Com
#####
mail   IN      A      125.161.170.126
```

```
#####
# Directing to US server
#####
ser-us IN      A      64.38.56.178
blogs  IN      CNAME   ser-us
forum  IN      CNAME   ser-us
```

File konfigurasi db.uk.my-indonesia.info

```
$TTL      86400
$ORIGIN   my-indonesia.info.
@         IN      SOA     gslbl.indo.com.  hostmaster.my-
indonesia.info.  (
                                2007082301 ; Serial
                                10800      ; Refresh
                                3600       ; Retry
                                3600000    ; Expire
                                86400 )   ; Minimum

        IN      NS      gslbl.indo.com.
        IN      NS      gslb2.indo.com.
        IN      MX     10  mail.my-indonesia.info.
```

```
#####
# GSLB for my-indonesia.info
#####
@      IN      A      87.117.224.155
www    IN      CNAME   @
indo   IN      CNAME   @

au     IN      A      203.89.95.140
uk     IN      A      87.117.224.155
sg     IN      A      203.211.140.139
us     IN      A      64.38.56.178
```

```
#####
# Name Server for my-indonesia.info
#####
ns1      IN      A      87.117.224.155
ns2      IN      A      203.89.95.140

#####
# Mail Server Indo.Com
#####
mail     IN      A      125.161.170.126

#####
# Directing to US server
#####
ser-us   IN      A      64.38.56.178
blogs   IN      CNAME  ser-us
forum    IN      CNAME  ser-us
```

File konfigurasi db.sg.my-indonesia.info

```
$TTL      86400
$ORIGIN  my-indonesia.info.
@         IN      SOA      gslbl.indo.com.  hostmaster.my-
indonesia.info.  (
                                2007082301 ; Serial
                                10800    ; Refresh
                                3600     ; Retry
                                3600000  ; Expire
                                86400   ) ; Minimum
                                IN      NS      gslbl.indo.com.
                                IN      NS      gslb2.indo.com.
                                IN      MX 10   mail.my-indonesia.info.

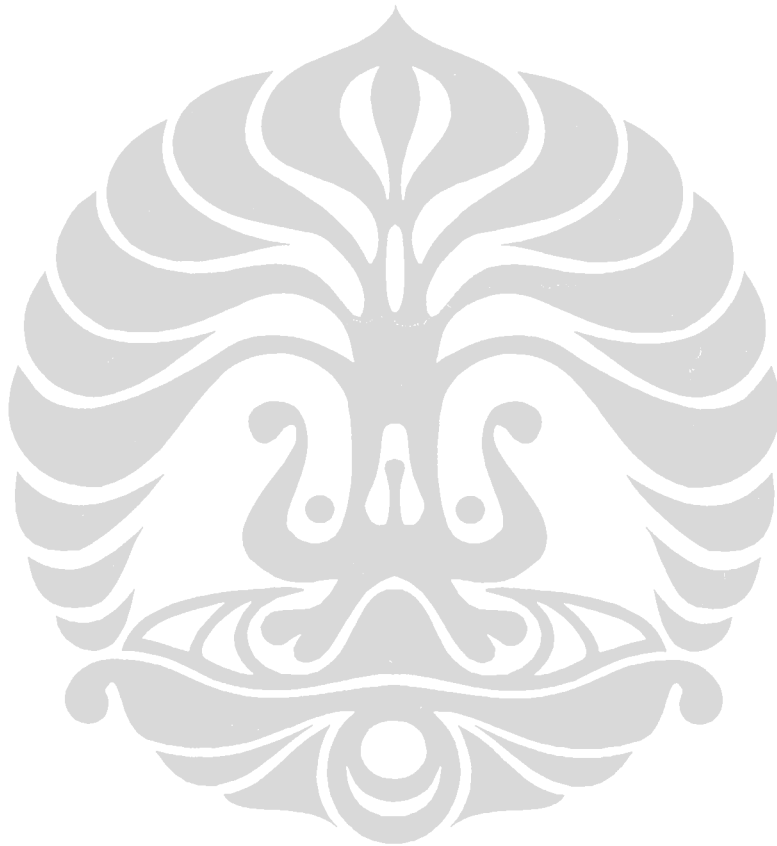
#####
# GSLB for my-indonesia.info
#####
@         IN      A      203.211.140.139
www       IN      CNAME  @
indo      IN      CNAME  @

au        IN      A      203.89.95.140
uk        IN      A      87.117.224.155
sg        IN      A      203.211.140.139
us        IN      A      64.38.56.178
```

```
#####
# Name Server for my-indonesia.info
#####
ns1      IN      A      87.117.224.155
ns2      IN      A      203.89.95.140

#####
# Mail Server Indo.Com
#####
mail     IN      A      125.161.170.126
```

```
#####  
# Directing to US server  
#####  
ser-us      IN      A      64.38.56.178  
blogs      IN      CNAME   ser-us  
forum      IN      CNAME   ser-us
```



File konfigurasi db.au.my-indonesia.info

```
$TTL      86400
$ORIGIN   my-indonesia.info.
@         IN      SOA      gslbl.indo.com.  hostmaster.my-
indonesia.info.  (
                                2007082301    ; Serial
                                10800         ; Refresh
                                3600         ; Retry
                                3600000      ; Expire
                                86400 )      ; Minimum

          IN      NS       gslbl.indo.com.
          IN      NS       gslb2.indo.com.
          IN      MX 10    mail.my-indonesia.info.

#####
# GSLB for my-indonesia.info
#####
@         IN      A        203.89.95.140
www       IN      CNAME    @
indo     IN      CNAME    @

au        IN      A        203.89.95.140
uk        IN      A        87.117.224.155
sg        IN      A        203.211.140.139
us        IN      A        64.38.56.178

#####
# Name Server for my-indonesia.info
#####
ns1       IN      A        87.117.224.155
ns2       IN      A        203.89.95.140

#####
# Mail Server Indo.Com
#####
mail      IN      A        125.161.170.126

#####
# Directing to US server
#####
ser-us    IN      A        64.38.56.178
blogs     IN      CNAME    ser-us
forum     IN      CNAME    ser-us
```

Lampiran 3. Tes Maxmind's GeoIP database dengan tool geoipllookup

Untuk melakukan verifikasi terhadap Maxmind's GeoIP Database, hal ini untuk memastikan apakah hasil pemetaan IP Address terhadap kode negara yang terinstall pada komputer server sudah sesuai dengan GeoIP Database yang tersedia secara online (*www.maxmind.com dan www.geobytes.com*)

- [root@localhost bin]# ./geoipllookup 4.20.73.32
GeoIP Country Edition: US, United States
- [root@localhost bin]# ./geoipllookup 194.126.96.1
GeoIP Country Edition: EE, Estonia
- [root@localhost bin]# ./geoipllookup 202.158.85.241
GeoIP Country Edition: ID, Indonesia
- [root@localhost bin]# ./geoipllookup 202.77.138.3
GeoIP Country Edition: PH, Philippines
- [root@localhost bin]# ./geoipllookup 212.124.225.112
GeoIP Country Edition: AT, Austria
- [root@localhost bin]# ./geoipllookup 212.111.192.3
GeoIP Country Edition: UA, Ukraine
- [root@localhost bin]# ./geoipllookup 212.112.64.1
GeoIP Country Edition: IT, Italy
- [root@localhost bin]# ./geoipllookup 222.229.96.1
GeoIP Country Edition: JP, Japan
- [root@localhost bin]# ./geoipllookup 192.12.232.56
GeoIP Country Edition: PT, Portugal
- [root@localhost bin]# ./geoipllookup 24.75.219.216
GeoIP Country Edition: PA, Panama

Hasil Pengujian lokasi IP Address dengan tool di www.geobytes.com, pengujian ini dilakukan untuk membandingkan hasil yang diperoleh pada percobaan dengan menggunakan [geoipllookup](http://geoipllookup.com).

IP Address Locator - Enter an IP address to find its location - Lookup Country Region City etc - Microsoft Internet Explorer

Address: <http://www.geobytes.com/IplLocator.htm?GetLocation>

find ip address

IP Address Locator - Enter an IP...

Get yourself a \$49 developers license (U.S. Only)

For more information on missing messages? Send your provider to our [CaseKeys](#) page.

The following results were generated using **GeoSelect** version II.

IP Address to locate: 4.20.73.32

Country Code	US	Country	United States	Distance to Nearby Cities
Region Code	USNY	Region	New York	km, mi, City, Region, Country
City Code	USNYFREE	City	Freeport	0 0 Freeport, NY, US
CityId	10135	Certainty	98	3 1 Merrick, NY, US
Latitude	40.6517	Longitude	-73.5837	3 1 Baldwin, NY, US
Capital City	Washington, DC	TimeZone	-05:00	4 2 Roosevelt, NY, US
Nationality Singular	American	Population	278058881	5 3 Rockville Centre, NY, US
Nationality Plural	Americans	Is proxy	false	5 3 Oceanside, NY, US
CIA Map Reference	North America	Currency	US Dollar	5 3 Bellmore, NY, US
MapBytes Remaining	Free	Currency Code	USD	6 3 Uniondale, NY, US
		Flag		7 4 Wantagh, NY, US

Search WHOIS data at: [RIPE](#), [ARIN](#), [APNIC](#), [LACNIC](#)

[Click here](#) to find out why our data can differ from the WHOIS data.
[Click here](#) for a description of each of the above fields.

Check out Geobytes other products including: [GeoSelect](#), [GeoNetMap](#), [GeoReport](#), [GeoPhras](#), [GeoLizer](#), [GeoRemote](#), [GeoDirection](#), [MapBytes](#)

IP Address Locator - Enter an IP address to find its location - Lookup Country Region City etc - Microsoft Internet Explorer

Address: http://www.geobytes.com/IpLocator.htm?GetLocation

find ip address

IP Address Locator - Enter an IP...

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The following results were generated using **GeoSelect** version II.

IP Address to locate: 194.126.96.1

Country Code: EE Country: Estonia

Region Code: EEHA Region: Harjumaa

City Code: EEHATALL City: Tallinn

CityId: 6401 Certainty: 75

Latitude: 59.4340 Longitude: 24.7280


Capital City: Tallinn TimeZone: +02:00

Nationality Singular: Estonian Population: 1423316

Nationality Plural: Estonians Is proxy: false

CIA Map Reference: Europe Currency: Kroon

MapBytes Remaining: Free Currency Code: EEK

Search WHOIS data at: **RIPE** **ARIN** **APNIC** **LAENIC** Flag: 

[Click here](#) to find out why our data can differ from the WHOIS data.
[Click here](#) for a description of each of the above fields.

Distance to Nearby Cities

km, mi, City, Region, Country
0 0 Tallinn, HA, EE
17 10 saue, HA, EE
17 10 Maardu, HA, EE

Check out Geobytes other products including: [GeoSelect](#), [GeoNetMap](#), [GeoReport](#), [GeoPhrase](#), [GeoLizer](#), [GeoRemote](#), [GeoDirection](#), [MapBytes](#)

https://secure.geobytes.com/buy.htm

IP Address Locator - Enter an IP address to find its location - Lookup Country Region City etc - Microsoft Internet Explorer

Address: http://www.geobytes.com/IpLocator.htm?GetLocation

find ip address

IP Address Locator - Enter an IP...

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The following results were generated using **GeoSelect** version II.

IP Address to locate: 202.158.85.241

Country Code: ID Country: Indonesia

Region Code: IDJK Region: Jakarta Raya (Jakarta)

City Code: IDJKJAKA City: Jakarta

CityId: 4010 Certainty: 95

Latitude: -6.1670 Longitude: 106.8000


Capital City: Jakarta TimeZone: +08:00

Nationality Singular: Indonesian Population: 228437870

Nationality Plural: Indonesians Is proxy: false

CIA Map Reference: Southeast Asia Currency: Rupiah

MapBytes Remaining: Free Currency Code: IDR

Search WHOIS data at: **RIPE** **ARIN** **APNIC** **LAENIC** Flag: 

[Click here](#) to find out why our data can differ from the WHOIS data.
[Click here](#) for a description of each of the above fields.

Distance to Nearby Cities

km, mi, City, Region, Country
0 0 Jakarta, JK, ID
21 13 Karawaci, BT, ID
21 13 Tangerang, BT, ID
22 13 Bekasi, JR, ID
22 13 Bali, JK, ID
29 18 Bitung, SW, ID

Check out Geobytes other products including: [GeoSelect](#), [GeoNetMap](#), [GeoReport](#), [GeoPhrase](#), [GeoLizer](#), [GeoRemote](#), [GeoDirection](#), [MapBytes](#)

IP Address Locator - Enter an IP address to find its location - Lookup Country Region City etc - Microsoft Internet Explorer

Address http://www.geobytes.com/IPLocator.htm?GetLocation

find ip address

IP Address Locator - Enter an IP...

folder for missing messages? Send your provider to our [CaseKeys](#) page.

The following results were generated using **GeoSelect** version II.

IP Address to locate: 202.77.138.3

Country Code Country **Distance to Nearby Cities**

Region Code Region km, mi, City, Region, Country

City Code City

- 0 0 S-Hertogenbosch, NB, NL
- 4 2 Rosmalen, NB, NL
- 11 6 Drunen, NB, NL
- 13 8 Zaltbommel, GE, NL
- 17 10 Oss, NB, NL
- 18 11 Waalwijk, NB, NL
- 22 13 Tilburg, NB, NL
- 22 13 Tiel, GE, NL
- 22 13 Uden, NB, NL
- 23 14 Kerkrade, GE, NL
- 25 15 Volkel, NB, NL
- 26 16 Dongen, NB, NL
- 29 18 Culemborg, GE, NL
- 30 18 Eindhoven, NB, NL
- 32 20 Gemert, NB, NL
- 32 20 Gilze, NB, NL

CityId Certainty

Latitude Longitude

Capital City TimeZone

Nationality Singular Population

Nationality Plural Is proxy

CIA Map Reference Currency

MapBytes Remaining Currency Code

Search WHOIS data at: **RIPE** **ARIN** **APNIC** **LACNIC**

[Click here](#) to find out why our data can differ from the WHOIS data.

[Click here](#) for a description of each of the above fields.

search engine for your name, your friend's name, or on keywords like TV, Radio, News, Weather, Movies, Coupons, Fuel.

Google Custom Search

It is like having having all of your local services bookmarked, but easier to access.

Check out Geobytes other products including: [GeoSelect](#), [GeoNetMap](#), [GeoReport](#), [GeoPhrase](#), [GeoLizer](#), [GeoRemote](#), [GeoDirection](#), [MapBytes](#)

(19 items remaining) Downloading picture http://www.google.com/intl/en_ALL/mapfiles/transparent.png...

IP Address Locator - Enter an IP address to find its location - Lookup Country Region City etc - Microsoft Internet Explorer

Address http://www.geobytes.com/IPLocator.htm?GetLocation

find ip address

IP Address Locator - Enter an IP...

folder for missing messages? Send your provider to our [CaseKeys](#) page.

The following results were generated using **GeoSelect** version II.

IP Address to locate: 212.124.225.112

Country Code Country **Distance to Nearby Cities**

Region Code Region km, mi, City, Region, Country

City Code City

- 0 0 London, EN, UK
- 13 8 Wimbledon, EN, UK
- 14 8 Barking, EN, UK
- 14 8 Ilford, EN, UK
- 16 10 Enfield, EN, UK
- 16 10 Barnet, EN, UK
- 17 10 Bexley, EN, UK
- 19 11 Sutton, EN, UK
- 19 11 Harrow, EN, UK
- 20 12 Heston, EN, UK
- 23 14 Dartford, EN, UK
- 23 14 East Molesey, EN, UK
- 23 14 Hornchurch, EN, UK
- 24 15 Epsom, EN, UK
- 27 16 Oxshott, EN, UK
- 27 16 Watford, EN, UK

CityId Certainty

Latitude Longitude

Capital City TimeZone

Nationality Singular Population

Nationality Plural Is proxy

CIA Map Reference Currency

MapBytes Remaining Currency Code

Search WHOIS data at: **RIPE** **ARIN** **APNIC** **LACNIC**

[Click here](#) to find out why our data can differ from the WHOIS data.

[Click here](#) for a description of each of the above fields.

search engine for your name, your friend's name, or on keywords like TV, Radio, News, Weather, Movies, Coupons, Fuel.

Google Custom Search

It is like having having all of your local services bookmarked, but easier to access.

Check out Geobytes other products including: [GeoSelect](#), [GeoNetMap](#), [GeoReport](#), [GeoPhrase](#), [GeoLizer](#), [GeoRemote](#), [GeoDirection](#), [MapBytes](#)

(20 items remaining) Downloading picture http://mt3.google.com/mf?m=4048v=ap.638x=10238y=680&zoom=6...

IP Address Locator - Enter an IP address to find its location - Lookup Country Region City etc - Microsoft Internet Explorer

Address: http://www.geobytes.com/IPLocator.htm?GetLocation

find ip address

IP Address Locator - Enter an IP...

folder for missing messages? Send your provider to our [CaseKeys](#) page.

The following results were generated using **GeoSelect** version II.

IP Address to locate: 212.111.192.3

Country Code: UA Country: Ukraine

Region Code: UA-KC Region: Misto Kyiv

City Code: UA-KC-KIEV City: Kiev

CityId: 4846 Certainty: 89

Latitude: 50.4330 Longitude: 30.5170

Capital City: Kiev TimeZone: +02:00

Nationality Singular: Ukrainian Population: 48760474

Nationality Plural: Ukrainians Is proxy: false

CIA Map Reference: Commonwealth of Ind Currency: Hryvnia

MapBytes Remaining: Free Currency Code: UAH

Search WHOIS data at: **RIPE** **ARIN** **APNIC** **LACNIC** Flag:

[Click here](#) to find out why our data can differ from the WHOIS data.
[Click here](#) for a description of each of the above fields.

Distance to Nearby Cities: km, mi, City, Region, Country

0 0	Kiev, K,C, UA
20 12	Brovary, KV, UA

Check out Geobytes other products including: [GeoSelect](#), [GeoNetMap](#), [GeoReport](#), [GeoPhrase](#), [GeoLizer](#), [GeoRemote](#), [GeoDirection](#), [MapBytes](#)

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IP Address Locator - Enter an IP address to find its location - Lookup Country Region City etc - Microsoft Internet Explorer

Address: http://www.geobytes.com/IPLocator.htm?GetLocation

find ip address

IP Address Locator - Enter an IP...

folder for missing messages? Send your provider to our [CaseKeys](#) page.

The following results were generated using **GeoSelect** version II.

IP Address to locate: 212.112.64.1

Country Code: IT Country: Italy

Region Code: IT-PI Region: Piemonte

City Code: IT-PI-TORI City: Torino

CityId: 11915 Certainty: 90

Latitude: 45.0500 Longitude: 7.6670

Capital City: Rome TimeZone: +01:00

Nationality Singular: Italian Population: 57679825

Nationality Plural: Italians Is proxy: false

CIA Map Reference: Europe Currency: Euro

MapBytes Remaining: Free Currency Code: EUR

Search WHOIS data at: **RIPE** **ARIN** **APNIC** **LACNIC** Flag:

[Click here](#) to find out why our data can differ from the WHOIS data.
[Click here](#) for a description of each of the above fields.

Distance to Nearby Cities: km, mi, City, Region, Country

0 0	Turin, PI, IT
0 0	Torino, PI, IT
6 3	Moncalieri, PI, IT
14 8	Settimo Torinese, PI, IT
14 8	Alpignano, PI, IT
32 20	Pinerolo, PI, IT
44 27	Torre Pellice, PI, IT
46 28	Asti, PI, IT
49 30	Ivrea, PI, IT
49 30	Alba, PI, IT
53 33	Burlo, PI, IT
56 35	Sala Biellese, PI, IT

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Get yourself a \$49 developers license ([see here](#))

(20 items remaining) Downloading picture http://mt0.google.com/mk?m=404&v=ap.63&x=1068&y=736&zoom=6...

IP Address Locator - Enter an IP address to find its location - Lookup Country Region City etc - Microsoft Internet Explorer

Address http://www.geobytes.com/Iplocator.htm?GetLocation

find ip address

IP Address Locator - Enter an IP...

Get yourself a \$49 developers license ([Click Here](#))

Order for missing messages? Send your provider to our [CaseKeys](#) page.

The following results were generated using **GeoSelect** version II.

IP Address to locate:

Country Code Country **Distance to Nearby Cities**

Region Code Region km, mi, City, Region, Country

City Code City 0 0 Tokyo, TY, JP
5 3 Wakamatsu, NG, JP
12 7 Nerima, TY, JP
14 8 Soka, SI, JP
14 8 Urayasu, CH, JP
19 11 Mitaka, TY, JP
20 12 Urawa, SI, JP
20 12 Funabashi, CH, JP
21 13 Nagareyama, CH, JP
23 14 Kamagaya, CH, JP
25 15 Narashino, CH, JP
28 17 Higashimurayama, TY, JP
29 18 Tokorozawa, SI, JP
30 18 Abiko, CH, JP
30 18 Yokohama, KN, JP
32 20 Tachikawa, TY, JP

CityId Certainty

Latitude Longitude


Capital City TimeZone

Nationality Singular Population

Nationality Plural Is proxy

CIA Map Reference Currency

MapBytes Remaining Currency Code

Search WHOIS data at: **RIPE** **ARIN** **APNIC** **LACNIC** 

Check out Geobytes other products including: [GeoSelect](#), [GeoNetMap](#), [GeoReport](#), [GeoPhrase](#), [GeoLizer](#), [GeoRemote](#), [GeoDirection](#), [MapBytes](#)

[Click here](#) to find out why our data can differ from the WHOIS data.
[Click here](#) for a description of each of the above fields.

Search engine for your name, your friend's name, or on keywords like TV, Radio, News, Weather, Movies, Coupons, Fuel.

Google Custom Search

It is like having having all of your local services bookmarked, but easier to access.

(19 items remaining) Downloading picture http://mt1.google.com/mf?n=404&v=ap.63&x=1819&y=806&zoom=6...

IP Address Locator - Enter an IP address to find its location - Lookup Country Region City etc - Microsoft Internet Explorer

Address http://www.geobytes.com/Iplocator.htm?GetLocation

find ip address

IP Address Locator - Enter an IP...

Get yourself a \$49 developers license ([Click Here](#))

Order for missing messages? Send your provider to our [CaseKeys](#) page.

The following results were generated using **GeoSelect** version II.

IP Address to locate:

Country Code Country **Distance to Nearby Cities**

Region Code Region km, mi, City, Region, Country

City Code City 0 0 Tokyo, TY, JP
5 3 Wakamatsu, NG, JP
12 7 Nerima, TY, JP
14 8 Soka, SI, JP
14 8 Urayasu, CH, JP
19 11 Mitaka, TY, JP
20 12 Urawa, SI, JP
20 12 Funabashi, CH, JP
21 13 Nagareyama, CH, JP
23 14 Kamagaya, CH, JP
25 15 Narashino, CH, JP
28 17 Higashimurayama, TY, JP
29 18 Tokorozawa, SI, JP
30 18 Abiko, CH, JP
30 18 Yokohama, KN, JP
32 20 Tachikawa, TY, JP

CityId Certainty

Latitude Longitude


Capital City TimeZone

Nationality Singular Population

Nationality Plural Is proxy

CIA Map Reference Currency

MapBytes Remaining Currency Code

Search WHOIS data at: **RIPE** **ARIN** **APNIC** **LACNIC** 

Check out Geobytes other products including: [GeoSelect](#), [GeoNetMap](#), [GeoReport](#), [GeoPhrase](#), [GeoLizer](#), [GeoRemote](#), [GeoDirection](#), [MapBytes](#)

[Click here](#) to find out why our data can differ from the WHOIS data.
[Click here](#) for a description of each of the above fields.

Search engine for your name, your friend's name, or on keywords like TV, Radio, News, Weather, Movies, Coupons, Fuel.

Google Custom Search

It is like having having all of your local services bookmarked, but easier to access.

(19 items remaining) Downloading picture http://mt1.google.com/mf?n=404&v=ap.63&x=1819&y=806&zoom=6...

IP Address Locator - Enter an IP address to find its location - Lookup Country Region City etc - Microsoft Internet Explorer

Address: <http://www.geobytes.com/IpLocator.htm?GetLocation>

find ip address

IP Address Locator - Enter an IP... + Add Tab

of GeoLocation technology on your own site.
<http://forums.geobytes.com/viewtopic.php?t=428>

Tried Local Search yet?

Still checking your junk folder for missing messages? Send your provider to our [CaseKeys](#) page.

The following results were generated using **GeoSelect** version II.

IP Address to locate: 192.12.232.56

We are unable to locate the address 192.12.232.56 at this time.

Are you responsible for generating visitors to your companies web site? Geobytes' free **GeoDirection** service generates over 10,000 visitors per day which for 1 cent per visitor will be visiting your companies web site. If your site could use some real traffic then please drop me an email at info@geobytes.com for more details. At 1 cent per click - it is an incredibly cost effective way to instantly build your traffic.

Locate IP
 Get IP location, map, trace, track and traceroute any IP address.
whatsmyipaddress.com

Flushing Ny
 Know Before You Go. Read Reviews from Real Travelers.
www.TripAdvisor.com

Liberty Realty
 Hoboken, Jersey City, Weehawken NJ Check out our new sales and rentals
www.libertyrealestate.com

Secret Internet
 Our service removes your IP address and hides your secrets!
www.findnot.com

Ads by Google

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Error on page.

IP Address Locator - Enter an IP address to find its location - Lookup Country Region City etc - Microsoft Internet Explorer

Address: <http://www.geobytes.com/IpLocator.htm?GetLocation>

find ip address

IP Address Locator - Enter an IP... + Add Tab

folder for missing messages? Send your provider to our [CaseKeys](#) page.

The following results were generated using **GeoSelect** version II.

IP Address to locate: 24.75.219.216

search engine for your name, your friend's name, or on keywords like TV, Radio, News, Weather, Movies, Coupons, Fuel.

It is like having having all of your local services bookmarked, but easier to access.

Distance to Nearby Cities
 km, mi, City, Region, Country

Country Code	US	Country	United States	City	Compton	0 0 Compton, CA, US
Region Code	USCA	Region	California	City	Compton	3 1 Willow Brook, CA, US
City Code	USCACOMP	City	Compton	Certainty	89	4 2 Lynwood, CA, US
CityId	7149	City	Compton	City	Compton	6 3 Paramount, CA, US
Latitude	33.8945	City	Compton	City	Compton	7 4 South Gate, CA, US
Longitude	-118.2230	City	Compton	City	Compton	8 5 Gardena, CA, US
Capital City	Washington, DC	City	Compton	City	Compton	8 5 Carson, CA, US
TimeZone	-08:00	City	Compton	City	Compton	10 6 Bell, CA, US
Population	278058881	City	Compton	City	Compton	10 6 Bellflower, CA, US
Is proxy	false	City	Compton	City	Compton	10 6 Downey, CA, US
Currency	US Dollar	City	Compton	City	Compton	10 6 Florence, CA, US
Currency Code	USD	City	Compton	City	Compton	10 6 Huntington Park, CA, US
Code		City	Compton	City	Compton	11 6 Maywood, CA, US
		City	Compton	City	Compton	11 6 Lakewood, CA, US
		City	Compton	City	Compton	11 6 Bell Gardens, CA, US
		City	Compton	City	Compton	12 7 Lawndale, CA, US

Check out Geobytes other products including:
[GeoSelect](#), [GeoNetMap](#), [GeoReport](#),
[GeoPhrase](#), [GeoLizer](#), [GeoRemote](#),
[GeoDirection](#), [MapBytes](#)

Search WHOIS data at: **RIPE**, **ARIN**, **APNIC**, **LACNIC**

Click here to find out why our data can differ from the WHOIS data.
 Click here for a description of each of the above fields.

(15 items remaining) Downloading picture <http://mk1.google.com/mk?m=404&v=ap.63&x=351&y=818&zoom=6...>

Lampiran 4. Tes Intergrasi Maxmind's GeoIP Database dan Bind dengan Utilitas nslookup

Dengan menggunakan utilitas nslookup dapat dilakukan query terhadap DNS server untuk mendapat informasi IP Address dari sebuah *hostname*. Program ini sangat berguna untuk memeriksa benar tidak informasi yang terdapat pada geoDNS

5. Pengujian dari komputer server Australia :

```
[root@localhost ~]# nslookup
> set debug
> www.my-indonesia.info
Server:          203.89.65.70
Address:         203.89.65.70#53
-----
QUESTIONS:
      www.my-indonesia.info, type = A, class = IN
ANSWERS:
-> www.my-indonesia.info
      internet address = 203.89.95.140
AUTHORITY RECORDS:
-> www.my-indonesia.info
      nameserver = gslbl.indo.com.
ADDITIONAL RECORDS:
-> gslbl.indo.com
      internet address = 87.117.224.155
-----
Name:   www.my-indonesia.info
Address: 203.89.95.140
```

6. Pengujian dari komputer server Singapore :

```
[hagrid@139 ~]$ nslookup
> set debug
> www.my-indonesia.info
Server:          210.193.2.34
Address:         210.193.2.34#53
-----
QUESTIONS:
      www.my-indonesia.info, type = A, class = IN
ANSWERS:
-> www.my-indonesia.info
```

```
internet address = 203.211.140.139
AUTHORITY RECORDS:
-> info
nameserver = F9.INFO.AFILIAS-NST.ORG.
-> info
nameserver = A9.INFO.AFILIAS-NST.info.
-> info
nameserver = B9.INFO.AFILIAS-NST.ORG.
-> info
nameserver = C9.INFO.AFILIAS-NST.info.
-> info
nameserver = D9.INFO.AFILIAS-NST.ORG.
-> info
nameserver = E9.INFO.AFILIAS-NST.info.
```

ADDITIONAL RECORDS:

Non-authoritative answer:

```
Name: www.my-indonesia.info
Address: 203.211.140.139
```

7. Pengujian dari komputer server Amerika :

```
[hagrid@www ~]$ nslookup
> set debug
> www.my-indonesia.info
Server:          64.38.5.242
Address:         64.38.5.242#53
```

QUESTIONS:

```
www.my-indonesia.info, type = A, class = IN
```

ANSWERS:

```
-> www.my-indonesia.info
internet address = 64.38.56.178
```

AUTHORITY RECORDS:

```
-> www.my-indonesia.info
nameserver = gslbl.indo.com.
```

ADDITIONAL RECORDS:

Non-authoritative answer:

```
Name: www.my-indonesia.info
```

Address: 64.38.56.178

8. Dari komputer server English :

```
[root@IS-2600 ~]# vi /etc/resolv.conf
[root@IS-2600 ~]# nslookup
> set debug
> www.my-indonesia.info
Server:          87.117.198.200
Address:        87.117.198.200#53
```

QUESTIONS:

www.my-indonesia.info, type = A, class = IN

ANSWERS:

-> www.my-indonesia.info
internet address = 87.117.224.155

AUTHORITY RECORDS:

ADDITIONAL RECORDS:

Non-authoritative answer:

Name: www.my-indonesia.info
Address: 87.117.224.155

9. Dari komputer server Indonesia :

```
[johan@hogwarts ~]$ nslookup
> set debug
> www.my-indonesia.info
Server:          10.3.65.83
Address:        10.3.65.83#53
```

QUESTIONS:

www.my-indonesia.info, type = A, class = IN

ANSWERS:

-> www.my-indonesia.info
internet address = 203.211.140.139

AUTHORITY RECORDS:

-> www.my-indonesia.info
nameserver = gslbl.indo.com.

ADDITIONAL RECORDS:

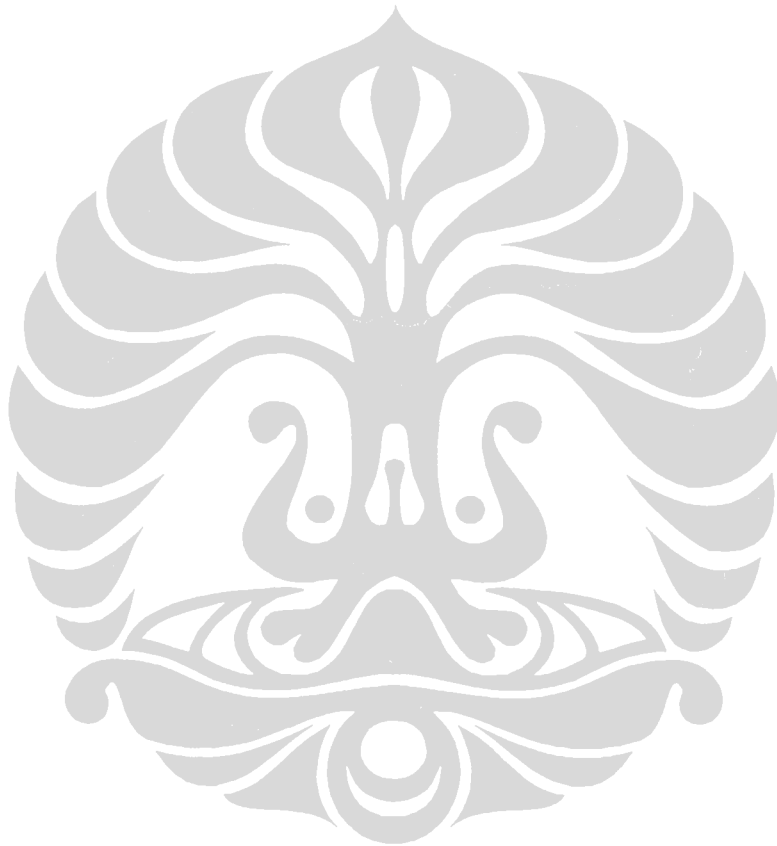
-> gslbl.indo.com

internet address = 87.117.224.155

Non-authoritative answer:

Name: www.my-indonesia.info

Address: 203.211.140.139



Lampiran 5. Tes Performance BIND dengan queryperf

Pada percobaan ini akan dilakukan pengujian terhadap performance DNS server setelah di integrasikan dengan Maxmind's GeoIP Database. Pengujian dilakukan menggunakan tools queryperf yang di set untuk melakukan pengujian 1 detik.

Pada tahap 1 option view pada masing – masing kelompok hanya terdiri dari 4 kode Negara:

- AU : country_AS; country_AU; country_CK; country_FJ;
- US : country_AG; country_AI; country_AN; country_AR;
- UK : country_DZ; country_AO; country_BJ; country_BW;
- SG : country_AF; country_AE; country_AM; country_AZ;
- Other.

```
[root@localhost queryperf]# ./queryperf -d input/sample.0 -l 1
DNS Query Performance Testing Tool
Version: $Id: queryperf.c,v 1.1.1.2.2.6 2004/06/21 00:45:24 marka
Exp $
[Status] Processing input data
[Status] Sending queries
[Status] Testing complete
Statistics:
Parse input file:      multiple times
Run time limit:       1 seconds
Ran through file:     15470 times
Queries sent:         15471 queries
Queries completed:    15471 queries
Queries lost:         0 queries
Percentage completed: 100.00%
Percentage lost:      0.00%
Started at:           Fri Aug  3 13:27:52 2007
Finished at:          Fri Aug  3 13:27:53 2007
Ran for:              1.001206 seconds
Queries per second:   15452.364448 qps
```

Pada tahap 2 option view pada masing – masing kelompok hanya terdiri dari 8 kode Negara :

- AU : country_AS; country_AU; country_CK; country_FJ;
country_FM; country_GU; country_KI; country_MH;

- US : country_AG; country_AI; country_AN; country_AR;
country_AW; country_BB; country_BM; country_BO;
- UK : country_DZ; country_AO; country_BJ; country_BW;
country_BF; country_BI; country_CM; country_CV;
- SG : country_AF; country_AE; country_AM; country_AZ;
country_BD; country_BH; country_BN; country_BT;
- Other.

```
[root@localhost queryperf]# ./queryperf -d input/sample.0 -l 1
DNS Query Performance Testing Tool
Version: $Id: queryperf.c,v 1.1.1.2.2.6 2004/06/21 00:45:24 marka
Exp $
[Status] Processing input data
[Status] Sending queries
[Status] Testing complete
Statistics:
Parse input file:      multiple times
Run time limit:       1 seconds
Ran through file:     12393 times
Queries sent:         12393 queries
Queries completed:    12393 queries
Queries lost:         0 queries
Percentage completed: 100.00%
Percentage lost:      0.00%
Started at:           Fri Aug  3 13:29:25 2007
Finished at:          Fri Aug  3 13:29:26 2007
Ran for:              1.001478 seconds
Queries per second:   12374.710178 qps
```

Pada tahap 3 option view pada masing – masing kelompok hanya terdiri dari 12 kode Negara :

- AU : country_AS; country_AU; country_CK; country_FJ;
country_FM; country_GU; country_KI; country_MH;
country_MP; country_NC; country_NF; country_NR;
- US : country_AG; country_AI; country_AN; country_AR;
country_AW; country_BB; country_BM; country_BO;
country_BR; country_BS; country_BZ; country_CA;
- UK : country_DZ; country_AO; country_BJ; country_BW;

- country_BF; country_BI; country_CM; country_CV;
- country_CF; country_TD; country_KM; country_CG;
- SG : country_AF; country_AE; country_AM; country_AZ;
- country_BD; country_BH; country_BN; country_BT;
- country_CN; country_GE; country_HK; country_ID;
- Other.

```
[root@localhost queryperf]# ./queryperf -d input/sample.0 -l 1
DNS Query Performance Testing Tool
Version: $Id: queryperf.c,v 1.1.1.2.2.6 2004/06/21 00:45:24 marka
Exp $
[Status] Processing input data
[Status] Sending queries
[Status] Testing complete
Statistics:
Parse input file:      multiple times
Run time limit:       1 seconds
Ran through file:     10318 times
Queries sent:         10319 queries
Queries completed:    10319 queries
Queries lost:         0 queries
Percentage completed: 100.00%
Percentage lost:      0.00%
Started at:           Fri Aug  3 13:31:36 2007
Finished at:          Fri Aug  3 13:31:37 2007
Ran for:              1.001862 seconds
Queries per second:   10299.821732 qps
```

Pada tahap 4 option view pada masing – masing kelompok hanya terdiri dari 16 kode Negara :

- AU : country_AS; country_AU; country_CK; country_FJ;
- country_FM; country_GU; country_KI; country_MH;
- country_MP; country_NC; country_NF; country_NR;
- country_NU; country_NZ; country_PF; country_PG;
- US : country_AG; country_AI; country_AN; country_AR;
- country_AW; country_BB; country_BM; country_BO;
- country_BR; country_BS; country_BZ; country_CA;
- country_CL; country_CO; country_CR; country_CU;
- UK : country_DZ; country_AO; country_BJ; country_BW;

- country_BF; country_BI; country_CM; country_CV;
- country_CF; country_TD; country_KM; country_CG;
- country_CI; country_DJ; country_EG; country_GQ;
- SG : country_AF; country_AE; country_AM; country_AZ;
- country_BD; country_BH; country_BN; country_BT;
- country_CN; country_GE; country_HK; country_ID;
- country_IL; country_IN; country_IO; country_IQ;
- country_IR; country_JO; country_JP; country_KG;
- Other.

```
[root@localhost queryperf]# ./queryperf -d input/sample.0 -l 1
DNS Query Performance Testing Tool
Version: $Id: queryperf.c,v 1.1.1.2.2.6 2004/06/21 00:45:24 marka
Exp $
[Status] Processing input data
[Status] Sending queries
[Status] Testing complete
Statistics:
Parse input file:      multiple times
Run time limit:       1 seconds
Ran through file:     8899 times
Queries sent:         8900 queries
Queries completed:    8900 queries
Queries lost:         0 queries
Percentage completed: 100.00%
Percentage lost:      0.00%
Started at:           Fri Aug 3 13:33:14 2007
Finished at:          Fri Aug 3 13:33:15 2007
Ran for:              1.002099 seconds
Queries per second:   8881.358029 qps
```

Pada tahap 5 option view pada masing – masing kelompok hanya terdiri dari 20 kode Negara :

- AU : country_AS; country_AU; country_CK; country_FJ;
- country_FM; country_GU; country_KI; country_MH;
- country_MP; country_NC; country_NF; country_NR;
- country_NU; country_NZ; country_PF; country_PG;
- country_PW; country_SB; country_TK; country_TO;

- US : country_AG; country_AI; country_AN; country_AR;
country_AW; country_BB; country_BM; country_BO;
country_BR; country_BS; country_BZ; country_CA;
country_CL; country_CO; country_CR; country_CU;
country_DM; country_DO; country_EC; country_FK;
- UK : country_DZ; country_AO; country_BJ; country_BW;
country_BF; country_BI; country_CM; country_CV;
country_CF; country_TD; country_KM; country_CG;
country_CI; country_DJ; country_EG; country_GQ;
country_ER; country_ET; country_GA; country_GM;
- SG : country_AF; country_AE; country_AM; country_AZ;
country_BD; country_BH; country_BN; country_BT;
country_CN; country_GE; country_HK; country_ID;
country_IL; country_IN; country_IO; country_IQ;
country_IR; country_JO; country_JP; country_KG;
- Other.

```
[root@localhost queryperf]# ./queryperf -d input/sample.0 -l 1
DNS Query Performance Testing Tool
Version: $Id: queryperf.c,v 1.1.1.2.2.6 2004/06/21 00:45:24 marka
Exp $
[Status] Processing input data
[Status] Sending queries
[Status] Testing complete
Statistics:
Parse input file:      multiple times
Run time limit:       1 seconds
Ran through file:     8014 times
Queries sent:         8015 queries
Queries completed:    8015 queries
Queries lost:         0 queries
Percentage completed: 100.00%
Percentage lost:      0.00%
Started at:           Fri Aug 3 13:34:49 2007
Finished at:          Fri Aug 3 13:34:50 2007
Ran for:              1.002340 seconds
Queries per second:   7996.288684 qps
```

Lampiran 6 : Skenario 1 → Download Time (Non GeoDNS) pengujian tahap 1

Pengujian dilakukan dengan menggunakan tools check host yang tersedia online dialamat <http://www.watchmouse.com/en/index.php>. Lokasi host yang digunakan untuk pengujian download terhadap halaman index website www.my-indonesia.info tersebar di beberapa negara seperti gambar berikut :



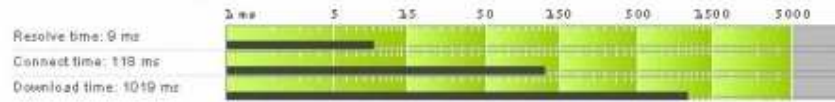
Dalam percobaan ini dibagi menjadi dua skenario, hal ini bertujuan untuk mengetahui pengaruh seting TTL terhadap cache DNS, resolve time dan download time.

Skenario 1 → Download Time (Non GeoDNS) pengujian tahap 1

Location Cagliari, Italy: OK
Download size: 16718 bytes



Location Amsterdam 1, Netherlands: OK
Download size: 16716 bytes



Location Shanghai, China: OK
Download size: 16719 bytes



Location Austin, U.S.A.: OK
Download size: 16716 bytes



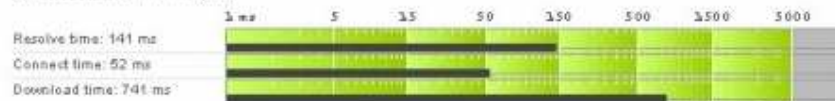
Location New York, U.S.A.: OK
Download size: 16716 bytes



Location Paris, France: OK
Download size: 16713 bytes



Location Florida, U.S.A.: OK
Download size: 16714 bytes



Location Munchen, Germany: OK

Download size: 16718 bytes



Location Kraków, Poland: OK

Download size: 16717 bytes



Location Porto Alegre, Brazil: OK

Download size: 16717 bytes



Location Stockholm, Sweden: OK

Download size: 16721 bytes



Location Vancouver, Canada: OK

Download size: 16719 bytes



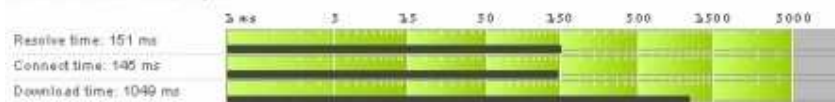
Location Singapore, Singapore: OK

Download size: 16721 bytes

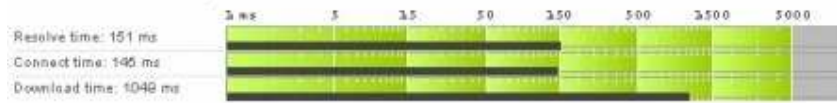


Location Santa Clara, U.S.A.: OK

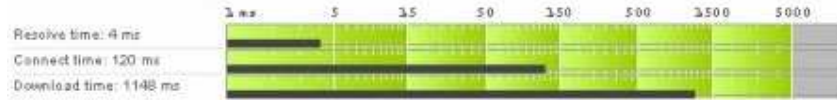
Download size: 16721 bytes



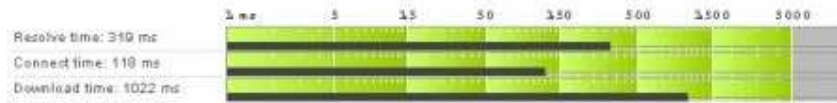
Location Santa Clara, U.S.A.: OK
Download size: 16721 bytes



Location London, United Kingdom: OK
Download size: 16716 bytes



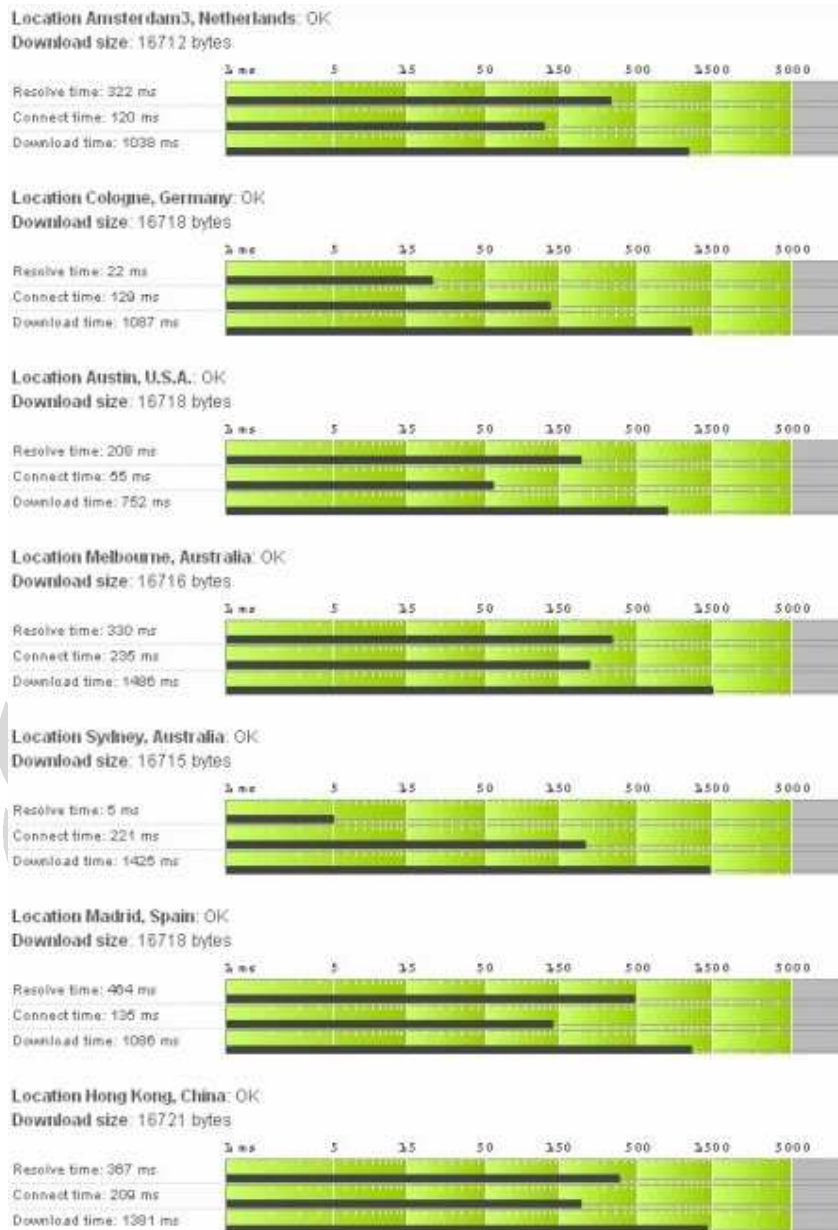
Location Amsterdam, Netherlands: OK
Download size: 16721 bytes



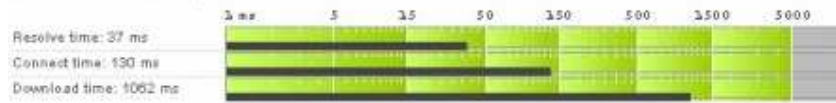
Location Copenhagen, Denmark: OK
Download size: 16713 bytes



Lampiran 6: Sekenario 1 → Download Time Non GeoDNS pengujian tahap 2



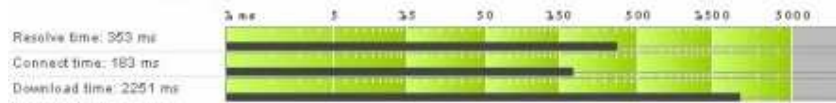
Location München, Germany: OK
Download size: 16717 bytes



Location Kraków, Poland: OK
Download size: 16717 bytes



Location Porto Alegre, Brazil: OK
Download size: 16717 bytes



Location Stockholm, Sweden: OK
Download size: 16720 bytes



Location Vancouver, Canada: OK
Download size: 16720 bytes



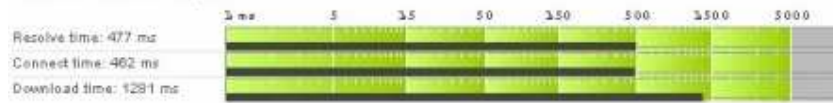
Location Singapore, Singapore: OK
Download size: 16715 bytes



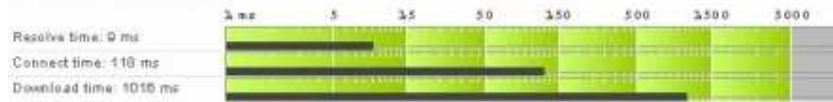
Location Santa Clara, U.S.A.: OK
Download size: 16721 bytes



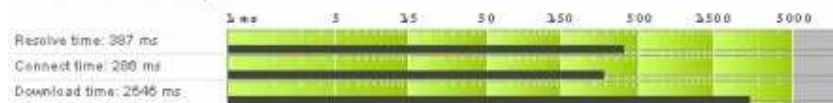
Location Cagliari, Italy: OK
Download size: 16719 bytes



Location Amsterdam 1, Netherlands: OK
Download size: 16721 bytes



Location Shanghai, China: OK
Download size: 16719 bytes



Location Austin, U.S.A.: OK
Download size: 16721 bytes



Location New York, U.S.A.: OK
Download size: 16717 bytes



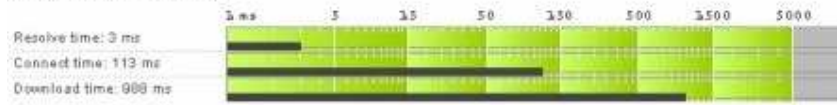
Location Paris, France: OK
Download size: 16716 bytes



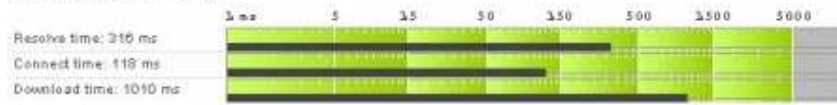
Location Florida, U.S.A.: OK
Download size: 16716 bytes



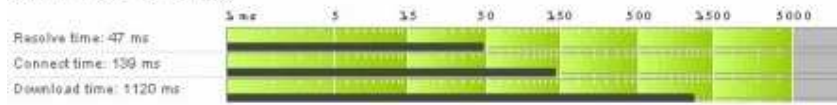
Location London, United Kingdom: OK
Download size: 16721 bytes



Location Amsterdam, Netherlands: OK
Download size: 16719 bytes



Location Copenhagen, Denmark: OK
Download size: 16713 bytes



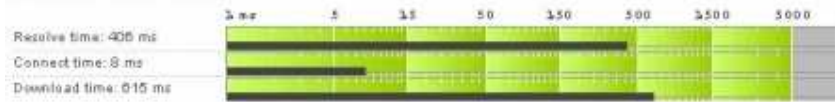
Lampiran 6 : Skenario 1 → Download Time (GeoDNS) pengujian tahap 1



Location Cagliari, Italy: OK
Download size: 16689 bytes



Location Amsterdam1, Netherlands: OK
Download size: 16688 bytes



Location Shanghai, China: OK
Download size: 16680 bytes



Location Austin, U.S.A.: OK
Download size: 16717 bytes



Location New York, U.S.A.: OK
Download size: 16716 bytes



Location Paris, France: OK
Download size: 16684 bytes

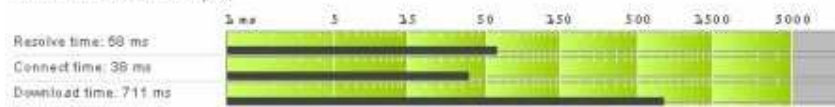


Location Florida, U.S.A.: OK
Download size: 16721 bytes



Location München, Germany: OK

Download size: 16684 bytes



Location Kraków, Poland: OK

Download size: 16689 bytes



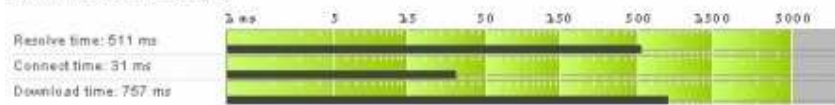
Location Porto Alegre, Brazil: OK

Download size: 16722 bytes



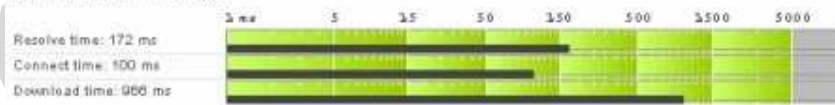
Location Stockholm, Sweden: OK

Download size: 16696 bytes



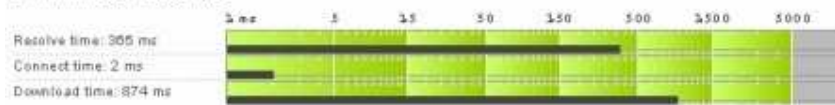
Location Vancouver, Canada: OK

Download size: 16719 bytes



Location Singapore, Singapore: OK

Download size: 16680 bytes



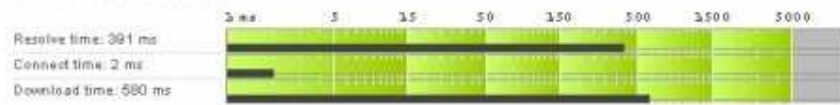
Location Santa Clara, U.S.A.: OK

Download size: 16719 bytes



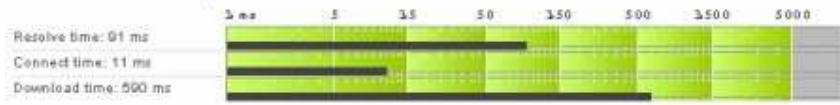
Location London, United Kingdom: OK

Download size: 16690 bytes



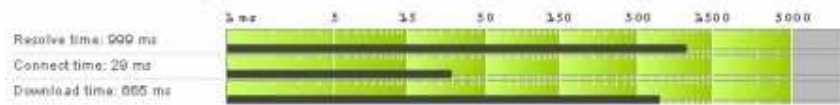
Location Amsterdam, Netherlands: OK

Download size: 16691 bytes



Location Copenhagen, Denmark: OK

Download size: 16691 bytes



Lampiran 6 : Skenario 1 → Download Time (GeoDNS) pengujian tahap 2

Location Amsterdam3, Netherlands: OK

Download size: 16689 bytes



Location Cologne, Germany: OK

Download size: 16689 bytes



Location Austin, U.S.A.: OK

Download size: 16718 bytes



Location Melbourne, Australia: OK

Download size: 16689 bytes



Location Sydney, Australia: OK

Download size: 16689 bytes



Location Madrid, Spain: OK

Download size: 16684 bytes

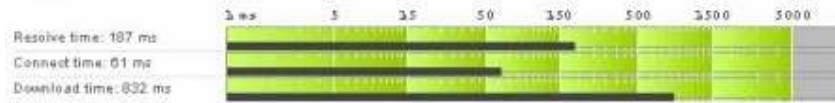


Location Hong Kong, China: OK

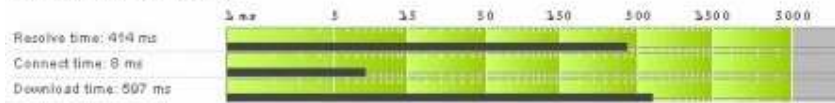
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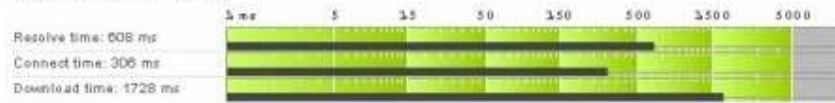
Location Cagliari, Italy: OK
Download size: 16695 bytes



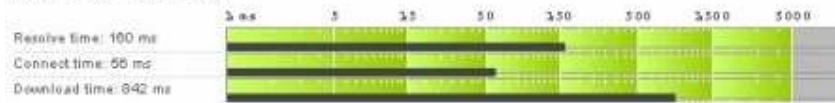
Location Amsterdam1, Netherlands: OK
Download size: 16696 bytes



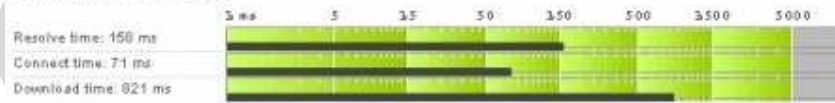
Location Shanghai, China: OK
Download size: 16678 bytes



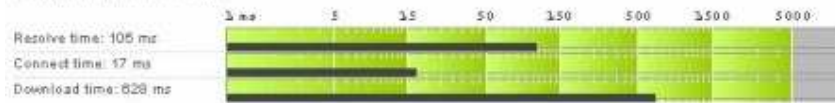
Location Austin, U.S.A.: OK
Download size: 16723 bytes



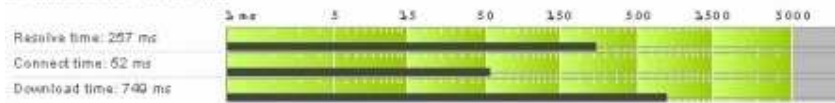
Location New York, U.S.A.: OK
Download size: 16723 bytes



Location Paris, France: OK
Download size: 16693 bytes



Location Florida, U.S.A.: OK
Download size: 16722 bytes



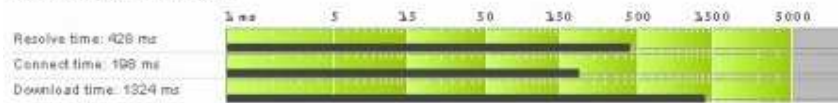
Location Munchen, Germany: OK
Download size: 16688 bytes



Location Kraków, Poland: OK
Download size: 16688 bytes



Location Porto Alegre, Brazil: OK
Download size: 16722 bytes



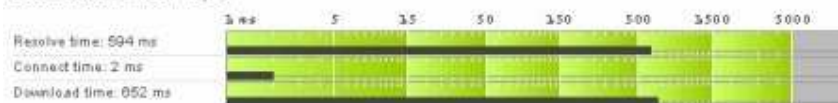
Location Stockholm, Sweden: OK
Download size: 16682 bytes



Location Vancouver, Canada: OK
Download size: 16720 bytes



Location Singapore, Singapore: OK
Download size: 16674 bytes

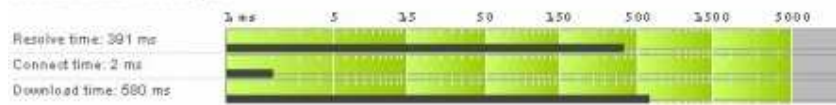


Location Santa Clara, U.S.A.: OK
Download size: 16717 bytes



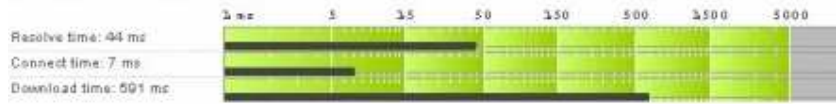
Location London, United Kingdom: OK

Download size: 16690 bytes



Location Amsterdam, Netherlands: OK

Download size: 16700 bytes



Location Copenhagen, Denmark: OK

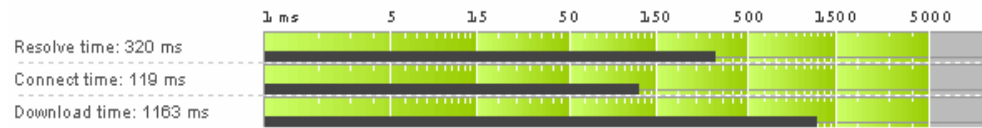
Download size: 16700 bytes



Lampiran 7 : Skenario 1 → Download Time NonGeoDNS pengujian tahap 1

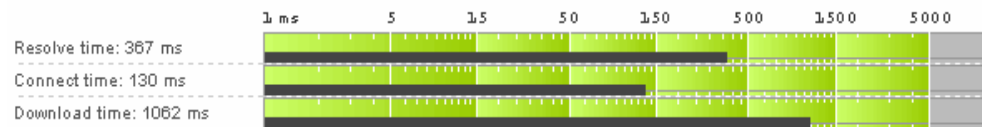
Location Amsterdam3, Netherlands: OK

Download size: 16720 bytes



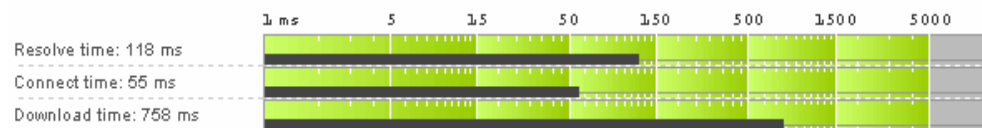
Location Cologne, Germany: OK

Download size: 16721 bytes



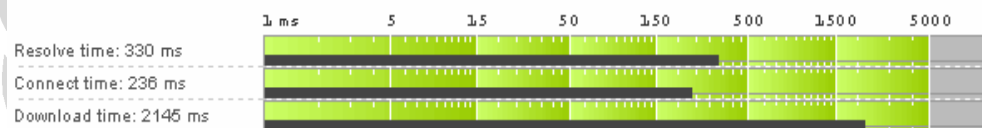
Location Austin, U.S.A.: OK

Download size: 16721 bytes



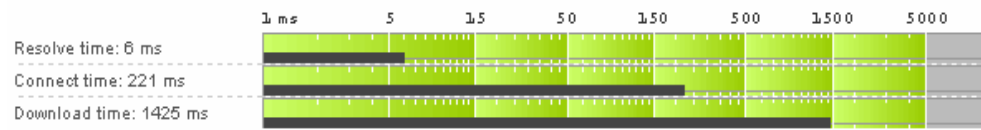
Location Melbourne, Australia: OK

Download size: 16720 bytes



Location Sydney, Australia: OK

Download size: 16719 bytes



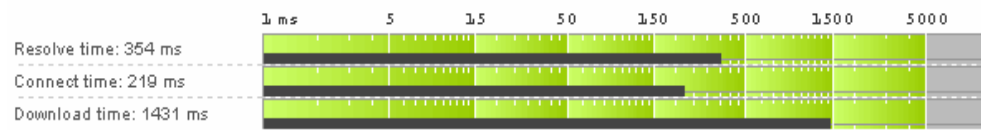
Location Madrid, Spain: OK

Download size: 16712 bytes



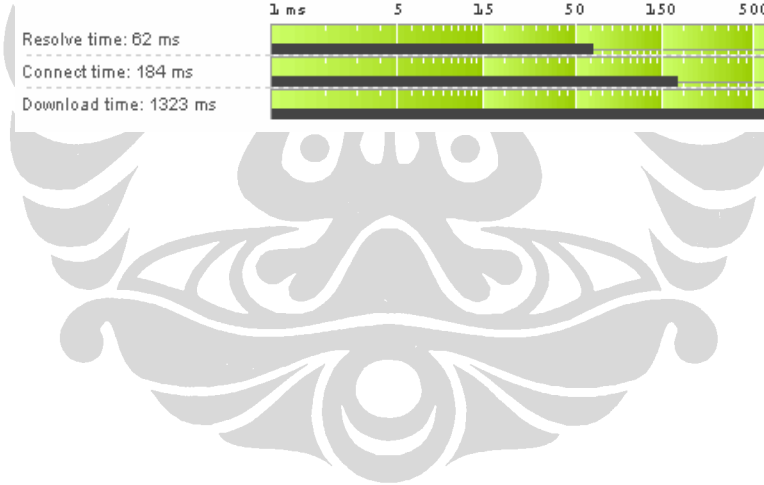
Location Hong Kong, China: OK

Download size: 16713 bytes



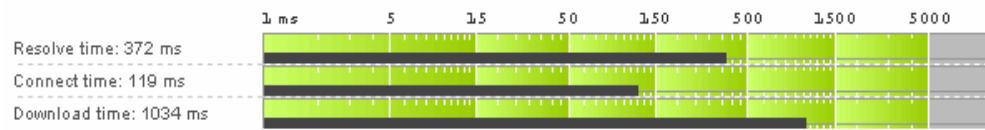
Location Cagliari, Italy: OK

Download size: 16718 bytes



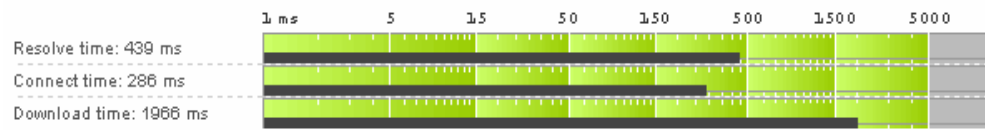
Location Amsterdam1, Netherlands: OK

Download size: 16713 bytes



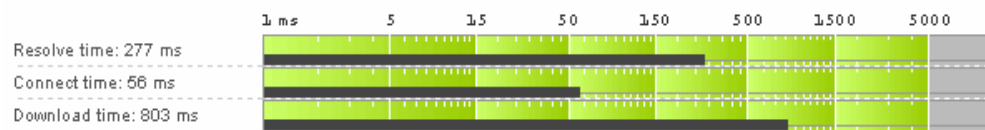
Location Shanghai, China: OK

Download size: 16718 bytes



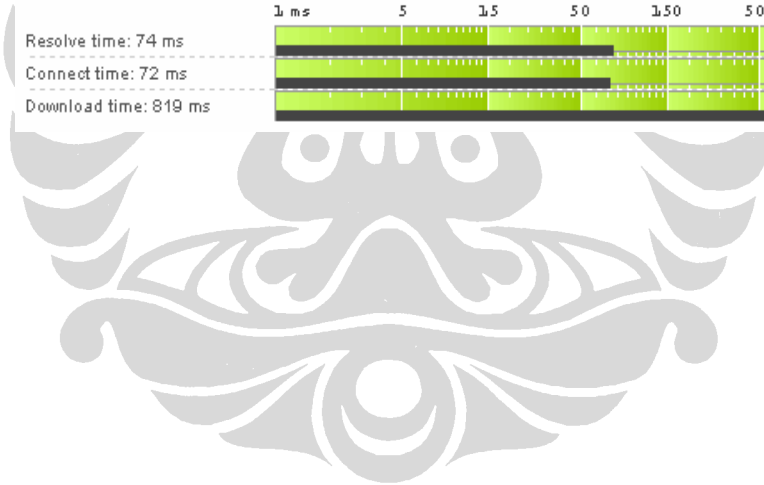
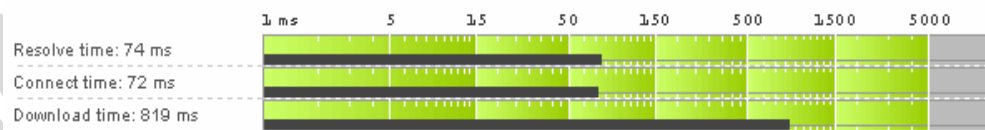
Location Austin, U.S.A.: OK

Download size: 16720 bytes

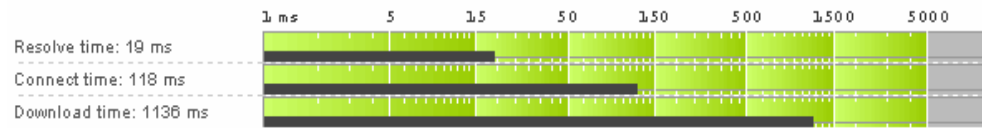


Location New York, U.S.A.: OK

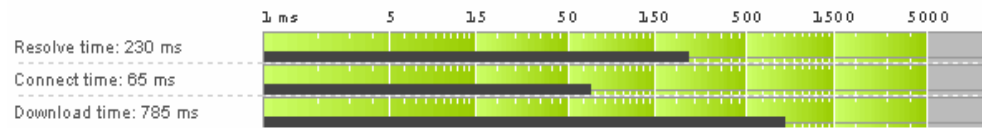
Download size: 16715 bytes



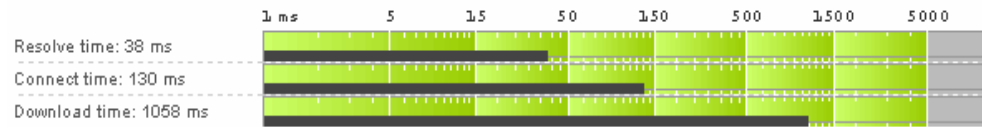
Location Paris, France: OK
Download size: 16715 bytes



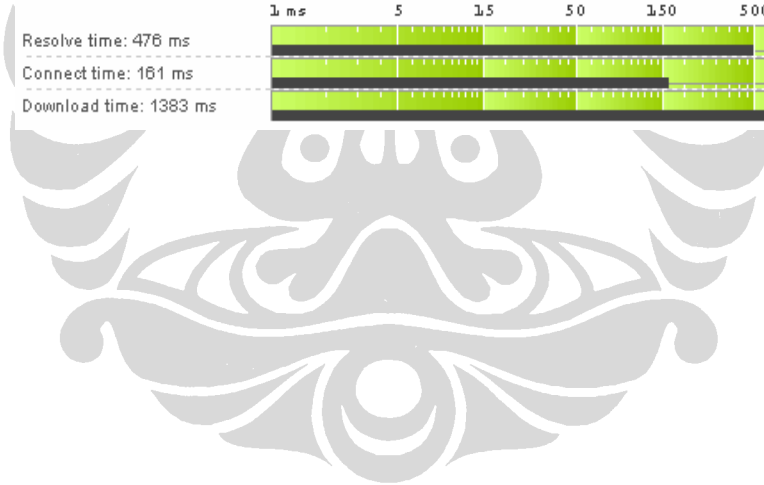
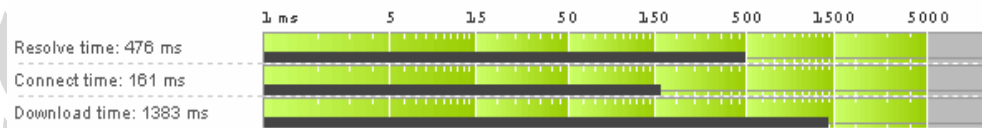
Location Florida, U.S.A.: OK
Download size: 16716 bytes



Location Munchen, Germany: OK
Download size: 16717 bytes

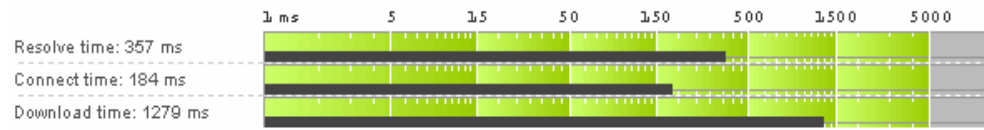


Location Kraków, Poland: OK
Download size: 16715 bytes



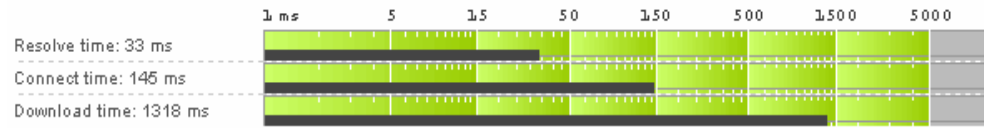
Location Porto Alegre, Brazil: OK

Download size: 16718 bytes



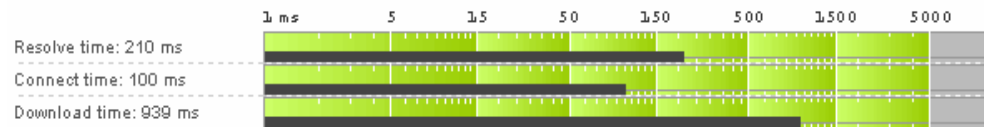
Location Stockholm, Sweden: OK

Download size: 16716 bytes



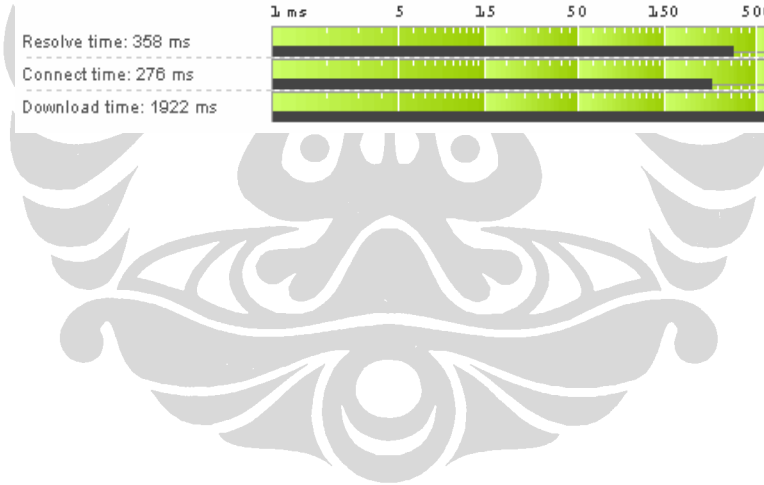
Location Vancouver, Canada: OK

Download size: 16718 bytes



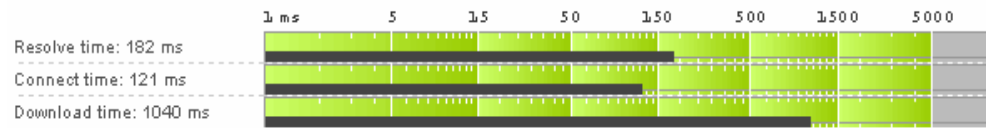
Location Singapore, Singapore: OK

Download size: 16714 bytes



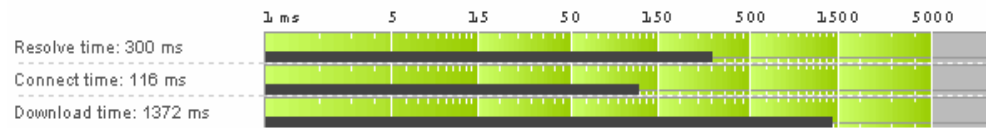
Location Santa Clara, U.S.A.: OK

Download size: 16716 bytes



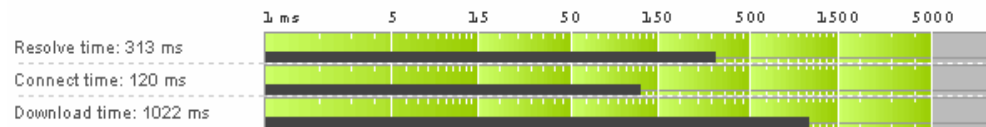
Location London, United Kingdom: OK

Download size: 16716 bytes



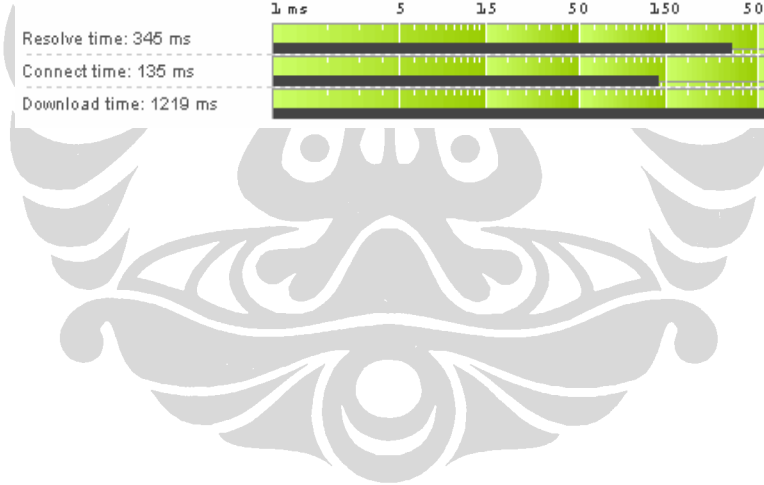
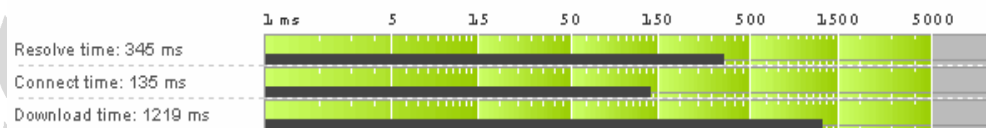
Location Amsterdam, Netherlands: OK

Download size: 16721 bytes



Location Copenhagen, Denmark: OK

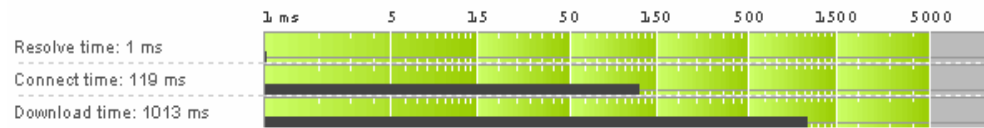
Download size: 16715 bytes



Lampiran 7 : Skenario 1 → Download Time Non GeoDNS pengujian tahap 2

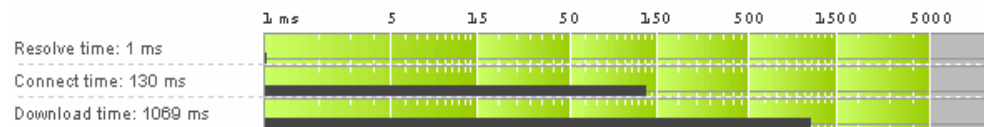
Location Amsterdam3, Netherlands: OK

Download size: 16717 bytes



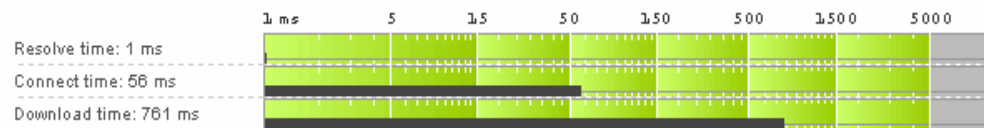
Location Cologne, Germany: OK

Download size: 16713 bytes



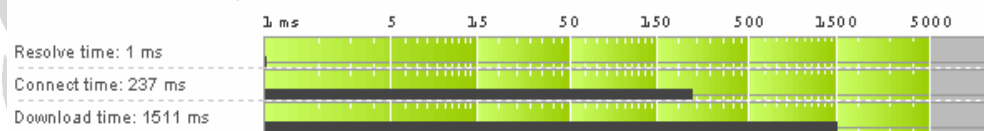
Location Austin, U.S.A.: OK

Download size: 16714 bytes



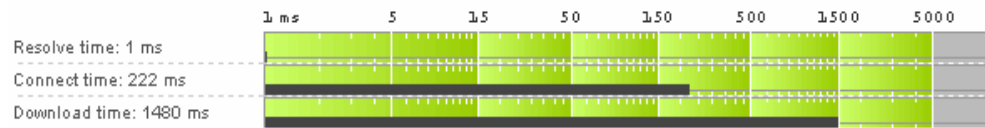
Location Melbourne, Australia: OK

Download size: 16716 bytes



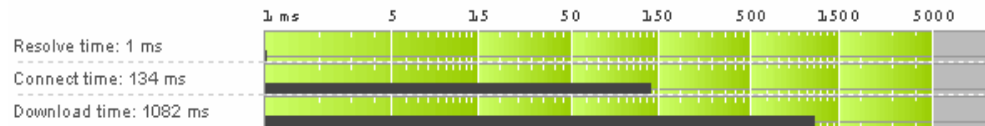
Location Sydney, Australia: OK

Download size: 16721 bytes



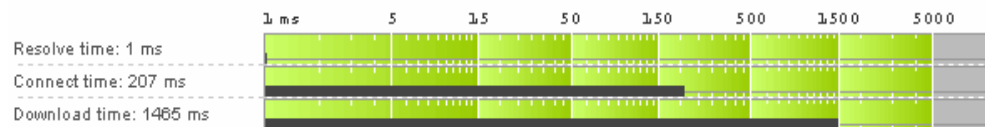
Location Madrid, Spain: OK

Download size: 16720 bytes



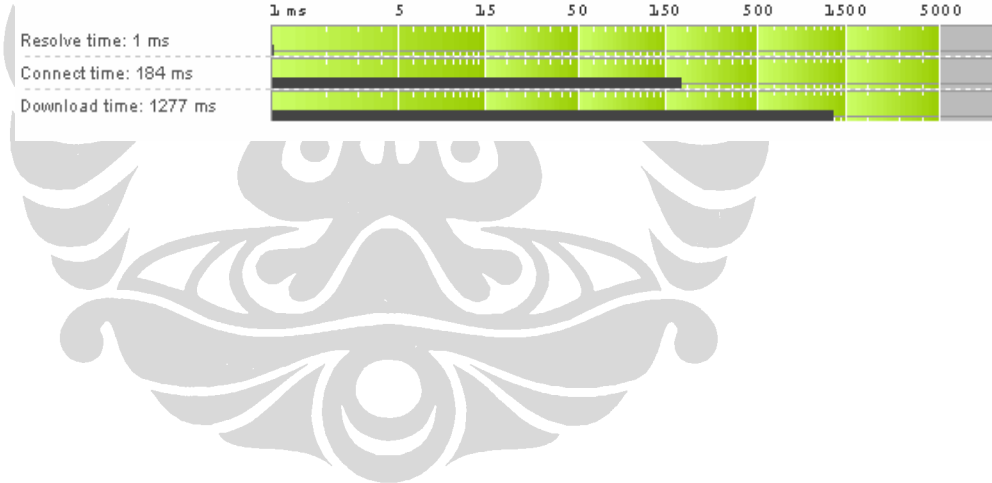
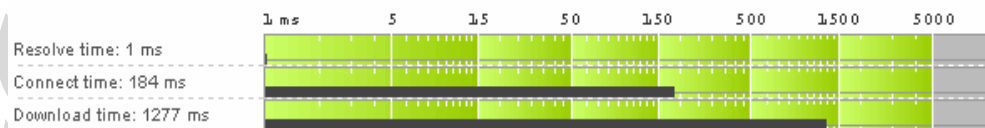
Location Hong Kong, China: OK

Download size: 16721 bytes



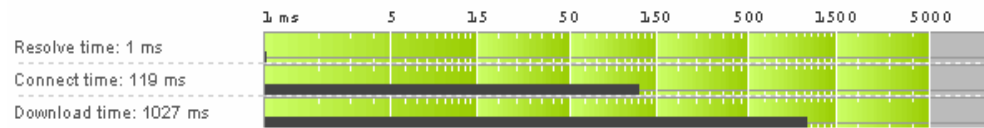
Location Cagliari, Italy: OK

Download size: 16720 bytes



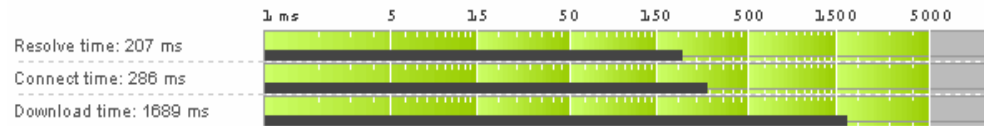
Location Amsterdam1, Netherlands: OK

Download size: 16717 bytes



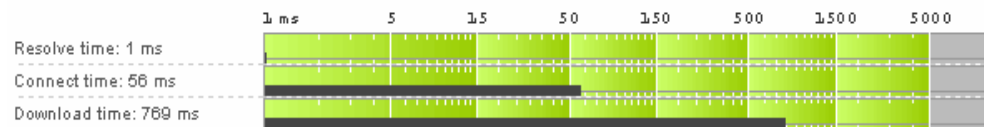
Location Shanghai, China: OK

Download size: 16721 bytes



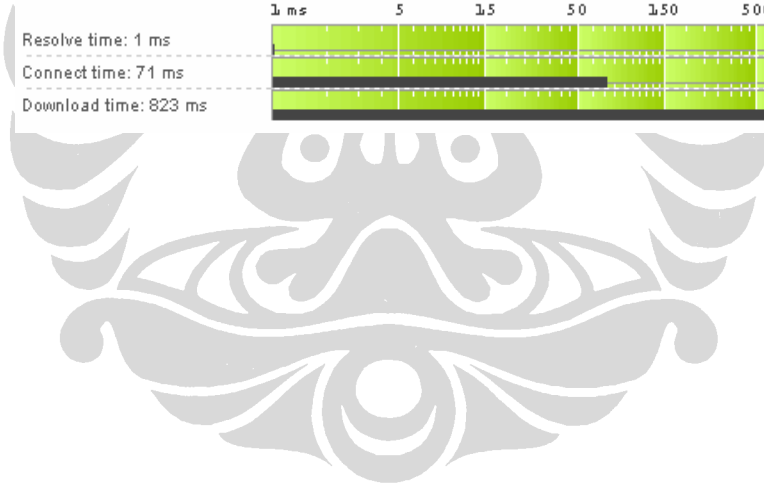
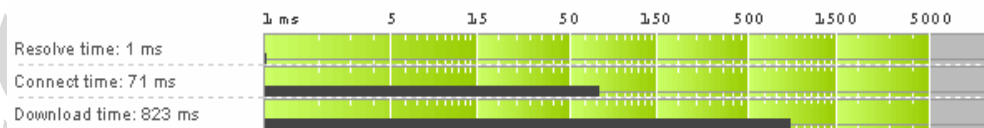
Location Austin, U.S.A.: OK

Download size: 16727 bytes

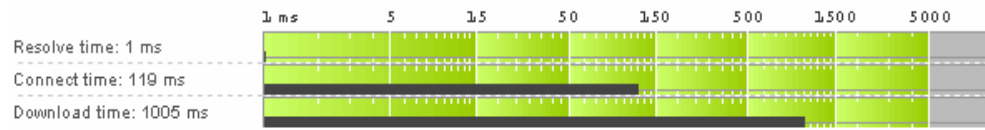


Location New York, U.S.A.: OK

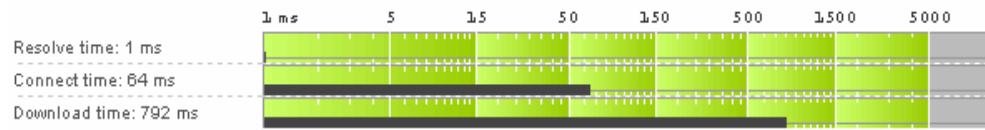
Download size: 16727 bytes



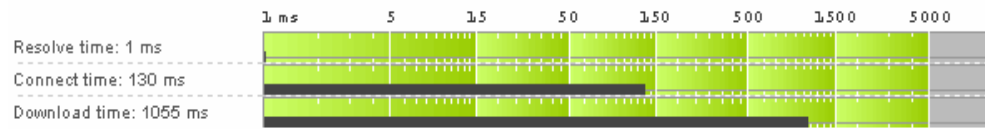
Location Paris, France: OK
Download size: 16726 bytes



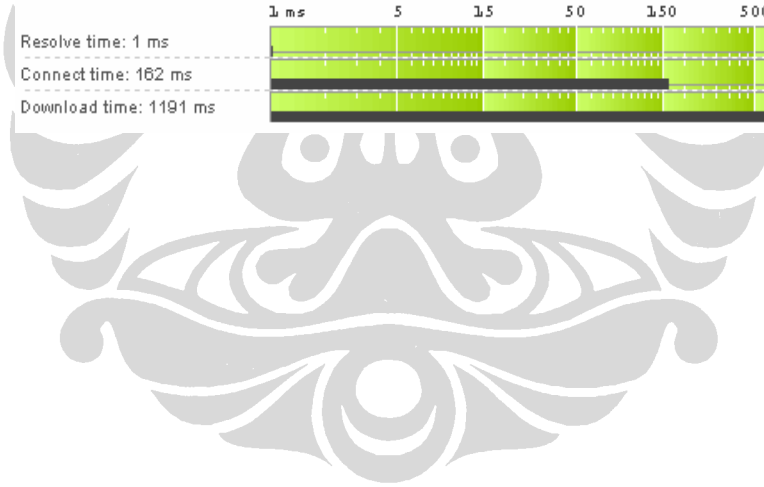
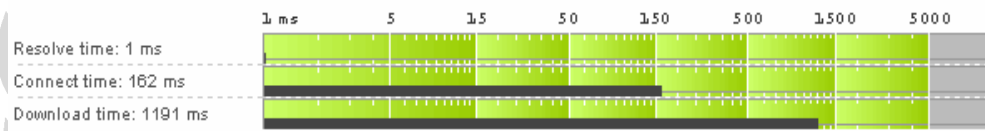
Location Florida, U.S.A.: OK
Download size: 16722 bytes



Location Munchen, Germany: OK
Download size: 16723 bytes

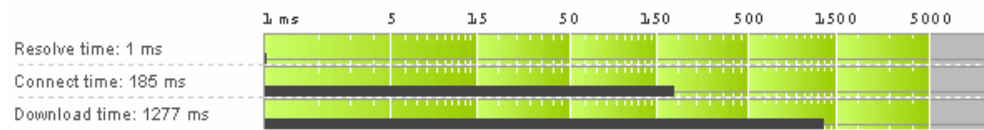


Location Kraków, Poland: OK
Download size: 16727 bytes



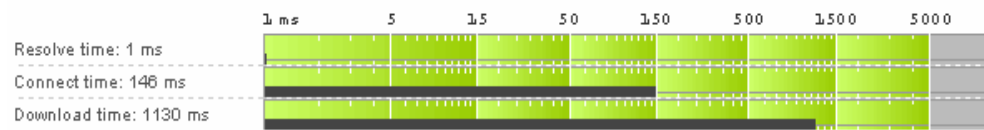
Location Porto Alegre, Brazil: OK

Download size: 16730 bytes



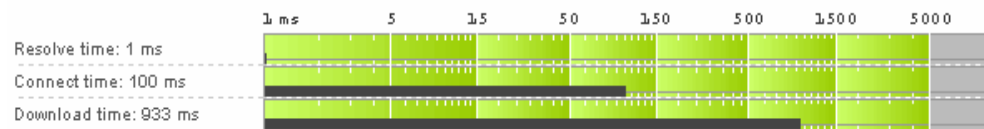
Location Stockholm, Sweden: OK

Download size: 16720 bytes



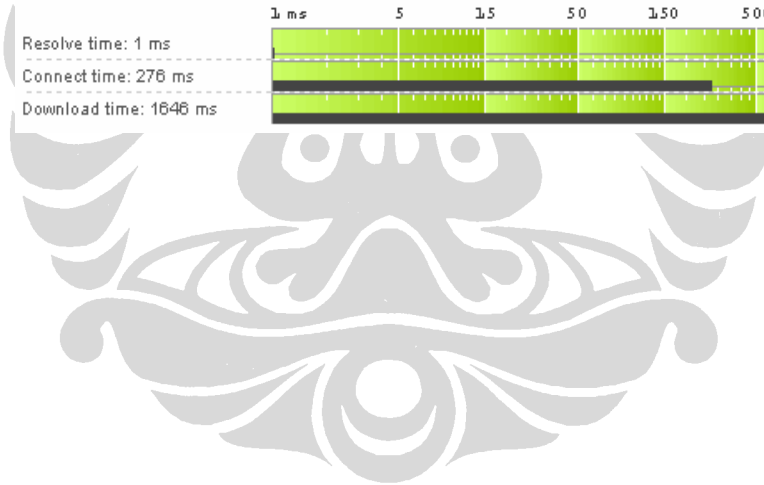
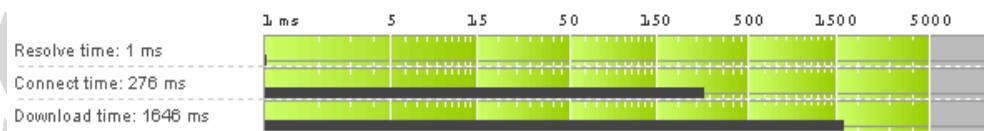
Location Vancouver, Canada: OK

Download size: 16721 bytes



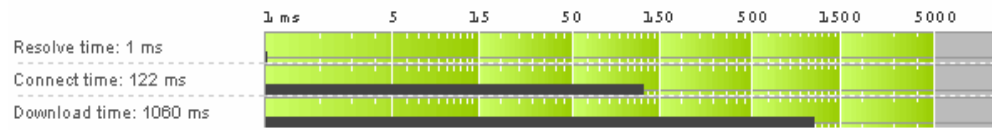
Location Singapore, Singapore: OK

Download size: 16721 bytes



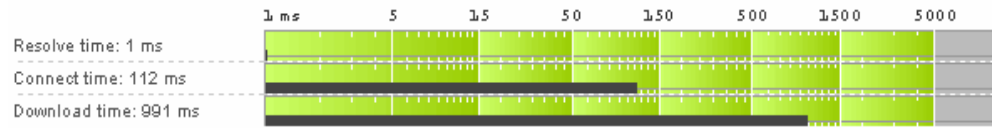
Location Santa Clara, U.S.A.: OK

Download size: 16720 bytes



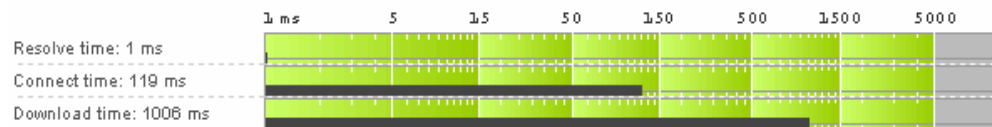
Location London, United Kingdom: OK

Download size: 16712 bytes



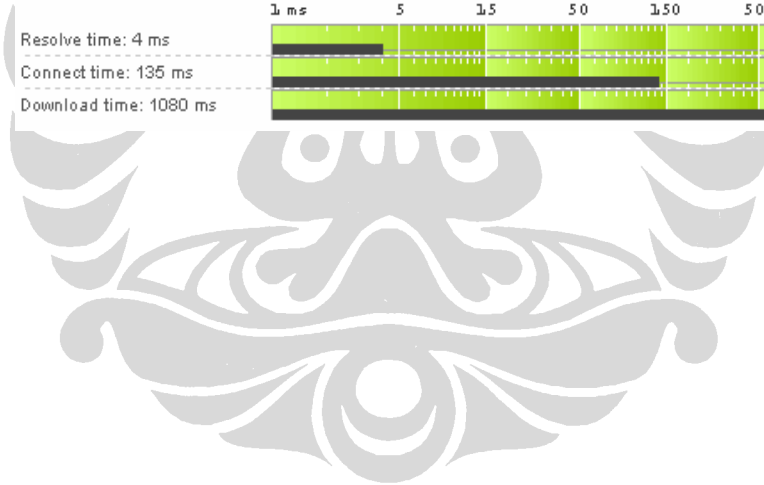
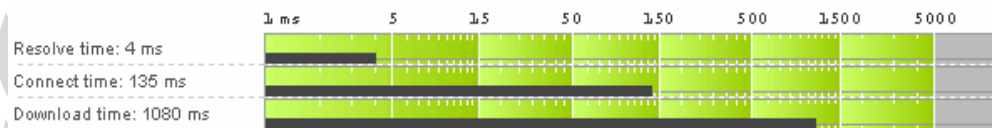
Location Amsterdam, Netherlands: OK

Download size: 16713 bytes



Location Copenhagen, Denmark: OK

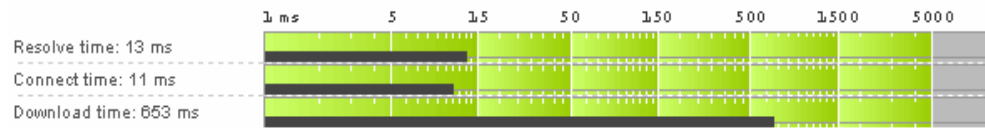
Download size: 16716 bytes



Lampiran 7 : Skenario 1 → Download Time (GeoDNS) pengujian tahap 1

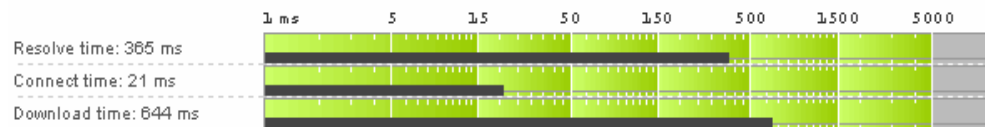
Location Amsterdam3, Netherlands: OK

Download size: 16700 bytes



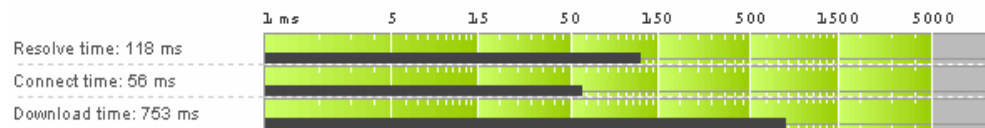
Location Cologne, Germany: OK

Download size: 16700 bytes



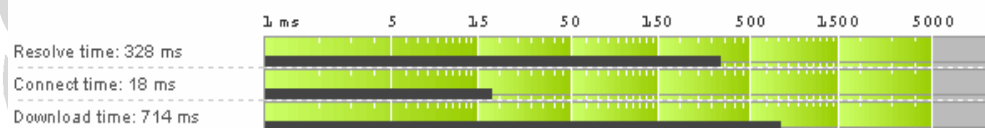
Location Austin, U.S.A.: OK

Download size: 16721 bytes



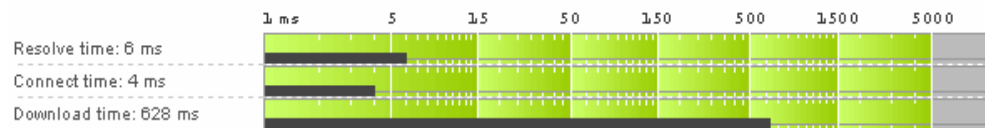
Location Melbourne, Australia: OK

Download size: 16687 bytes



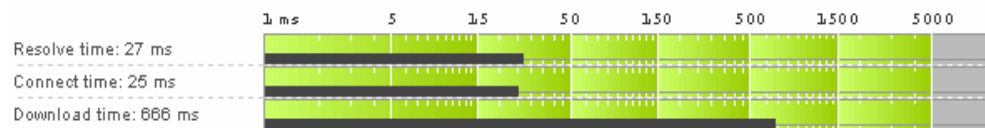
Location Sydney, Australia: OK

Download size: 16684 bytes



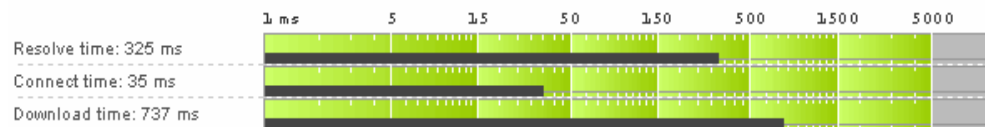
Location Madrid, Spain: OK

Download size: 16701 bytes



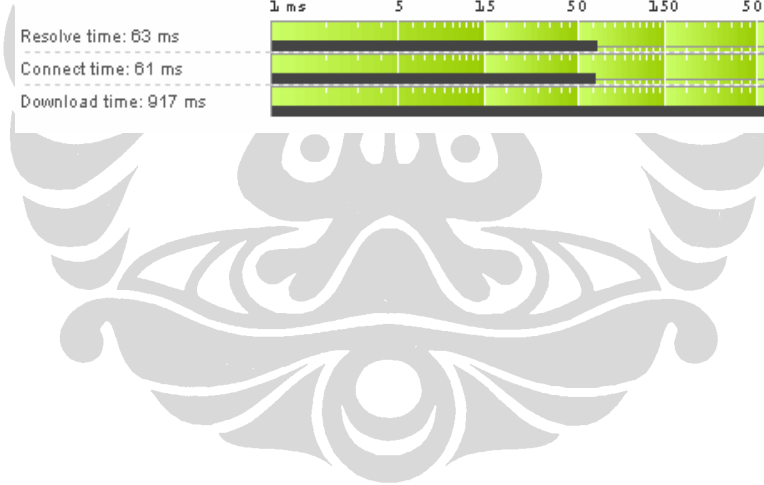
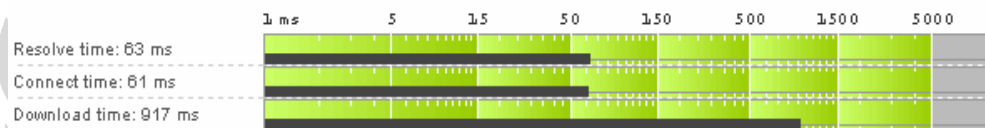
Location Hong Kong, China: OK

Download size: 16675 bytes



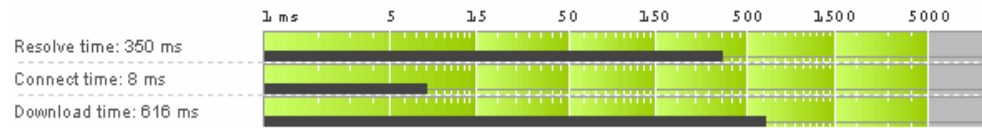
Location Cagliari, Italy: OK

Download size: 16700 bytes



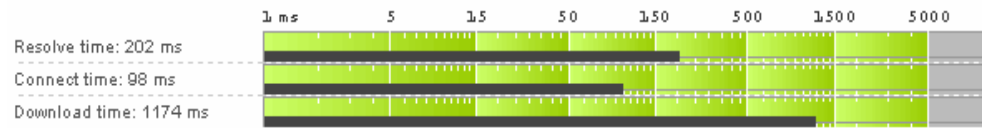
Location Amsterdam1, Netherlands: OK

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Location Shanghai, China: OK

Download size: 16669 bytes



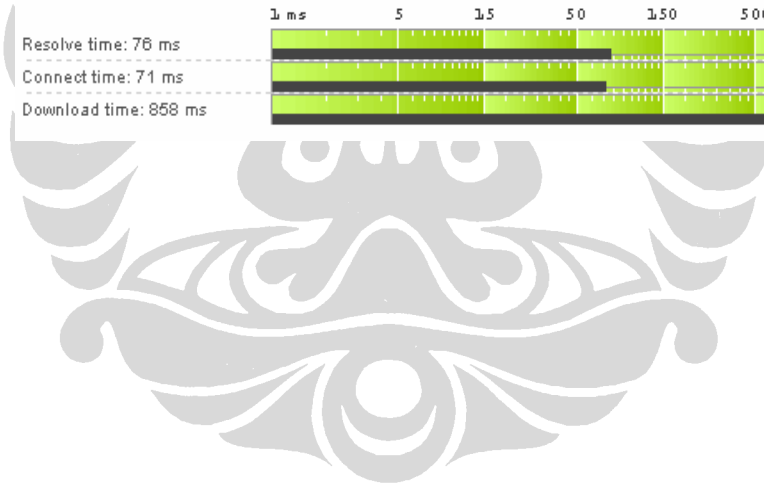
Location Austin, U.S.A.: OK

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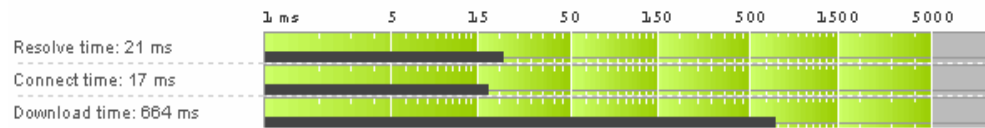
Location New York, U.S.A.: OK

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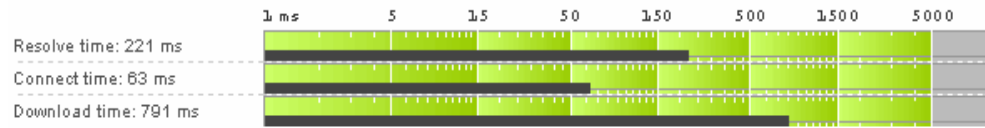
Location Paris, France: OK

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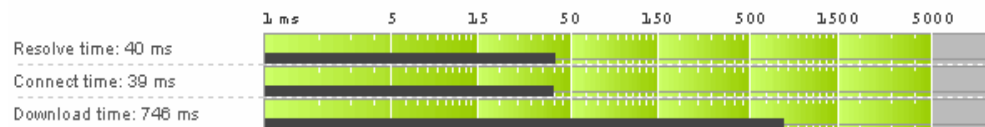
Location Florida, U.S.A.: OK

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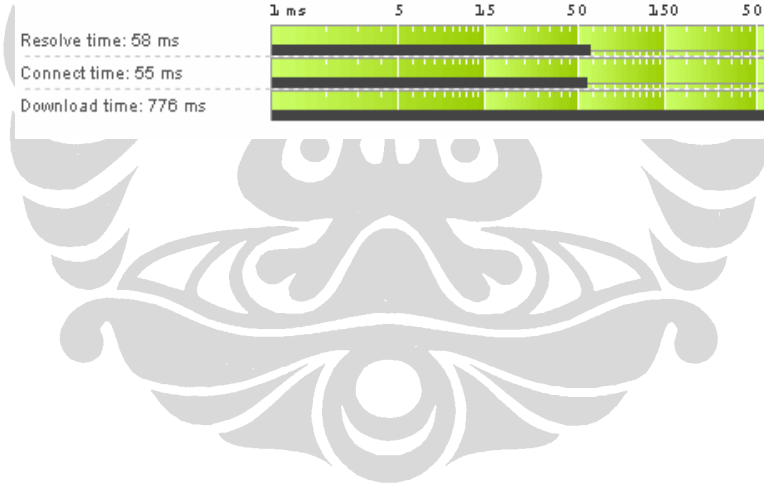
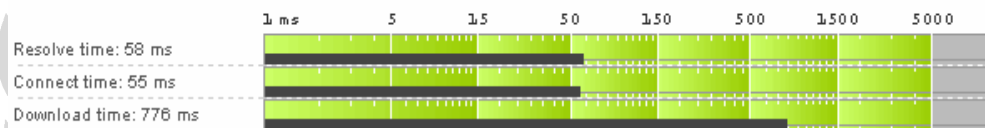
Location Munchen, Germany: OK

Download size: 16691 bytes



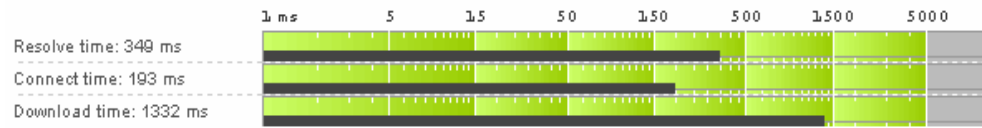
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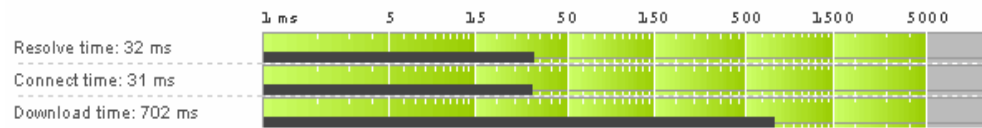
Location Porto Alegre, Brazil: OK

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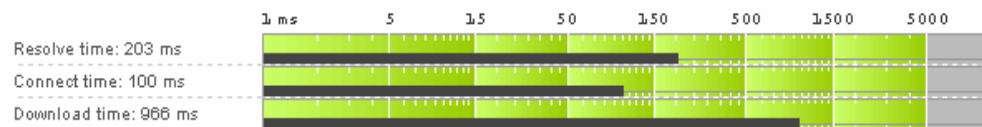
Location Stockholm, Sweden: OK

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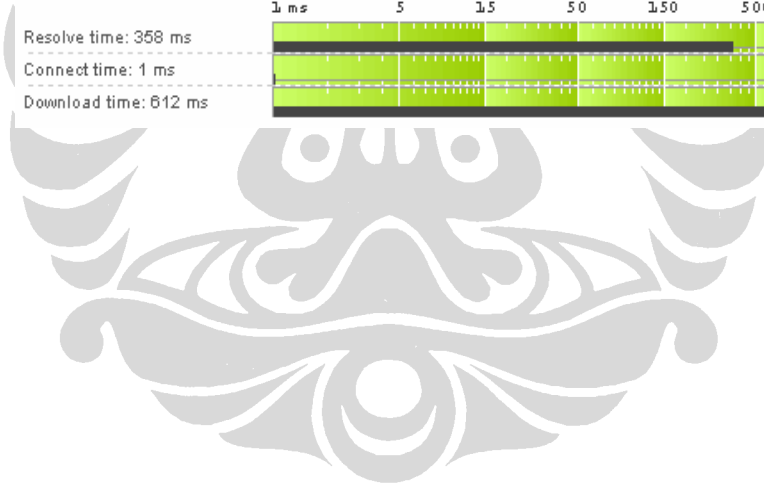
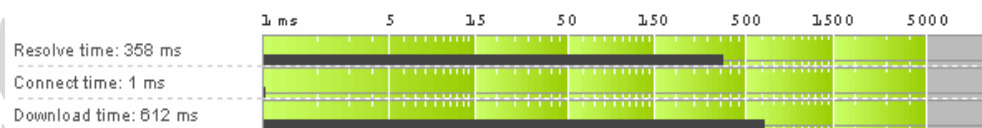
Location Vancouver, Canada: OK

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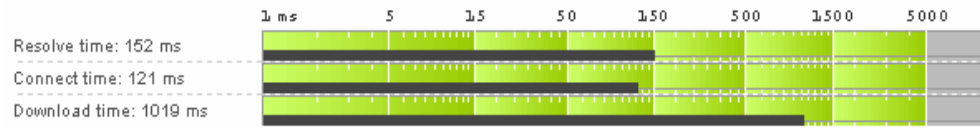
Location Singapore, Singapore: OK

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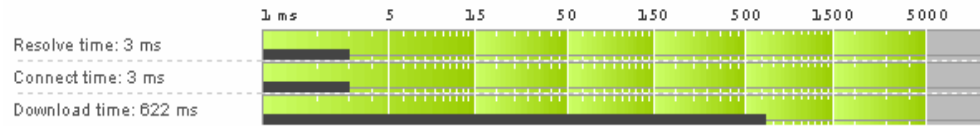
Location Santa Clara, U.S.A.: OK

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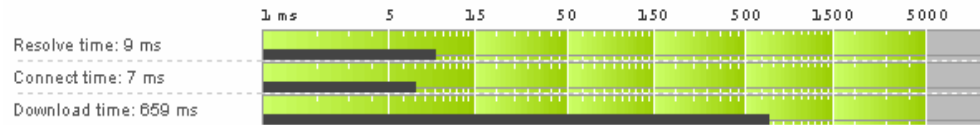
Location London, United Kingdom: OK

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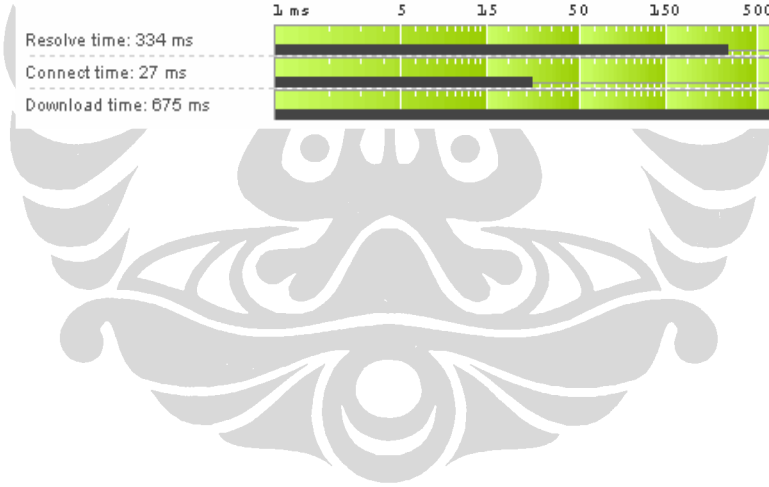
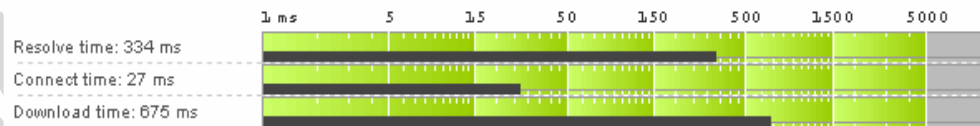
Location Amsterdam, Netherlands: OK

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Location Copenhagen, Denmark: OK

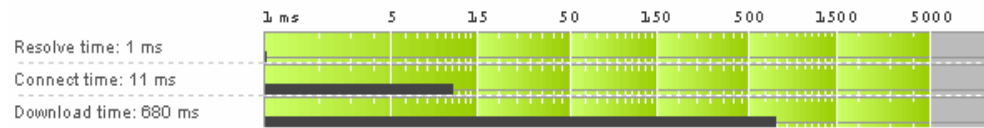
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Lampiran 7 : Skenario 1 → Download Time (GeoDNS) pengujian tahap 2

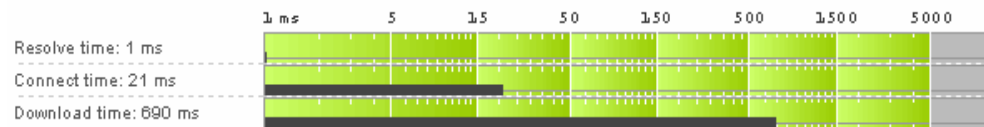
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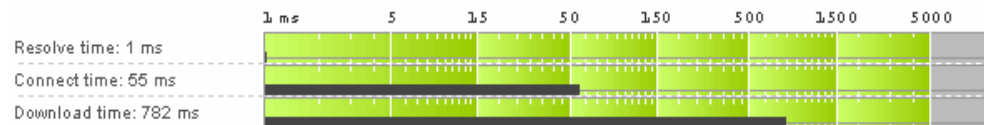
Location Cologne, Germany: OK

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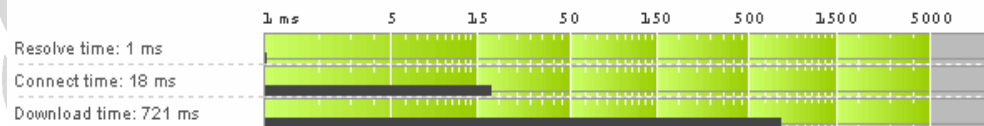
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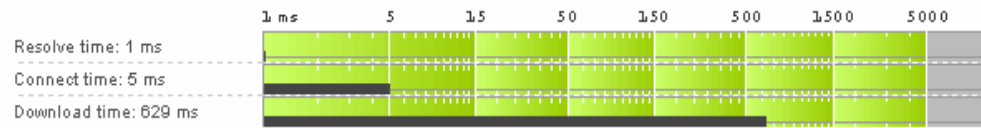
Location Melbourne, Australia: OK

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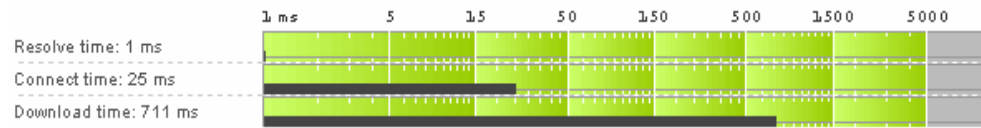
Location Sydney, Australia: OK

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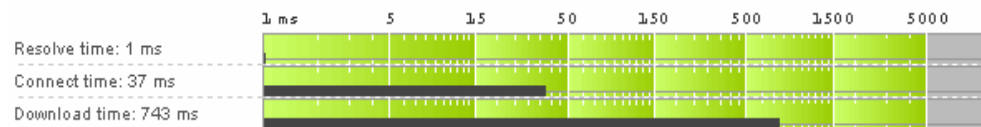
Location Madrid, Spain: OK

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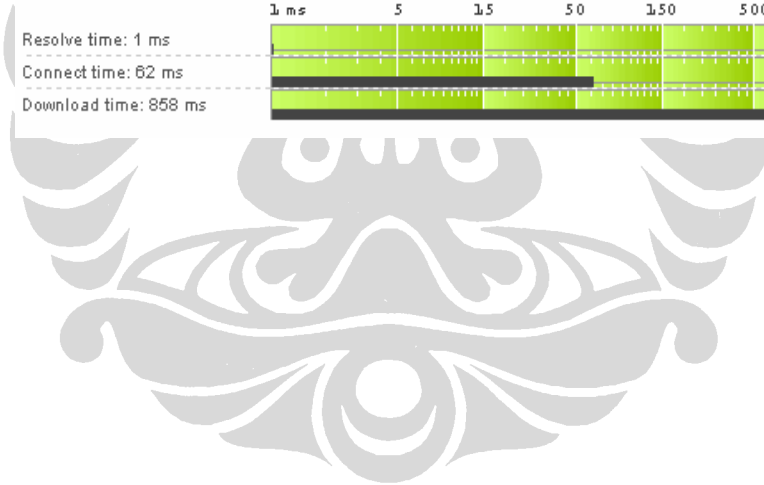
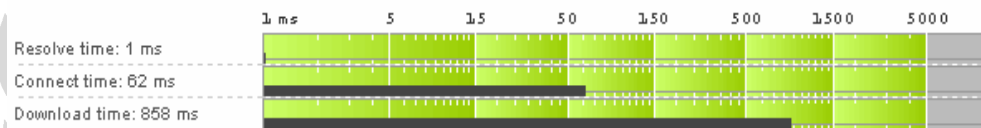
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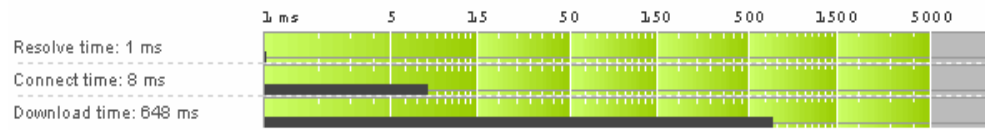
Location Cagliari, Italy: OK

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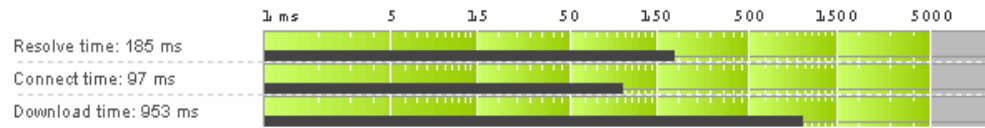
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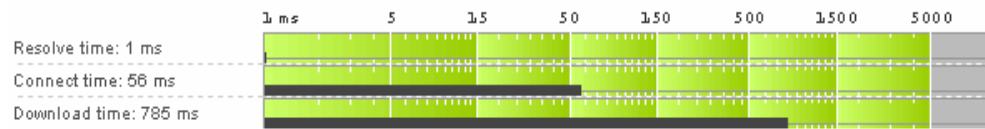
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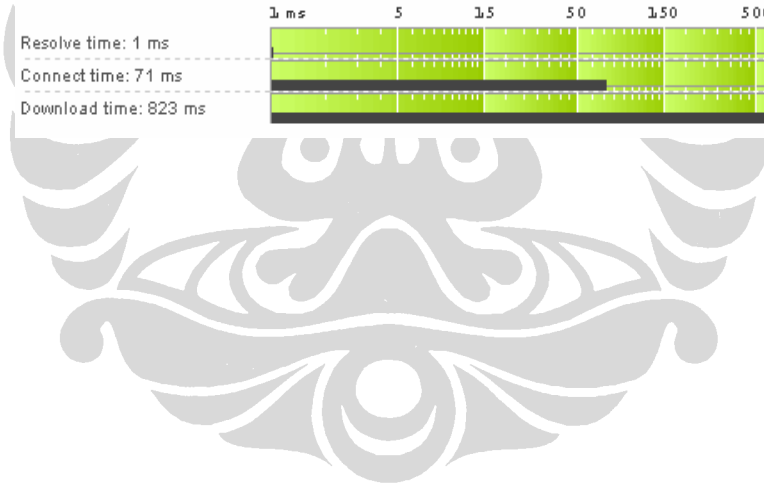
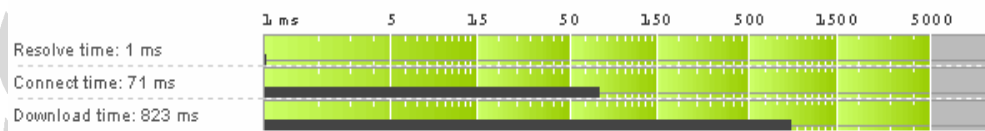
Location Austin, U.S.A.: OK

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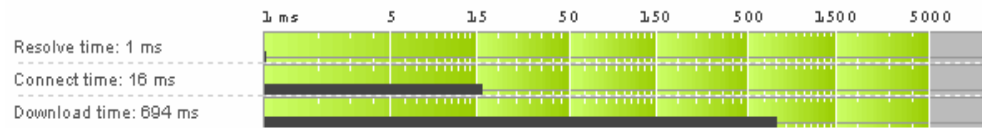


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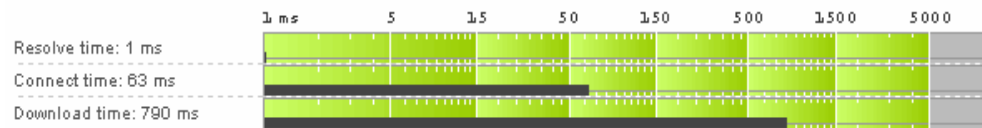
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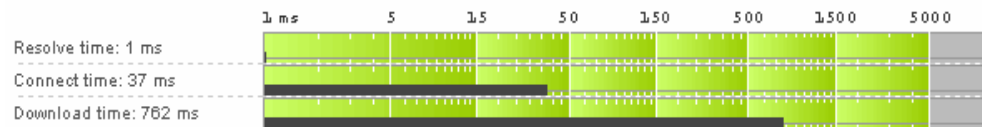
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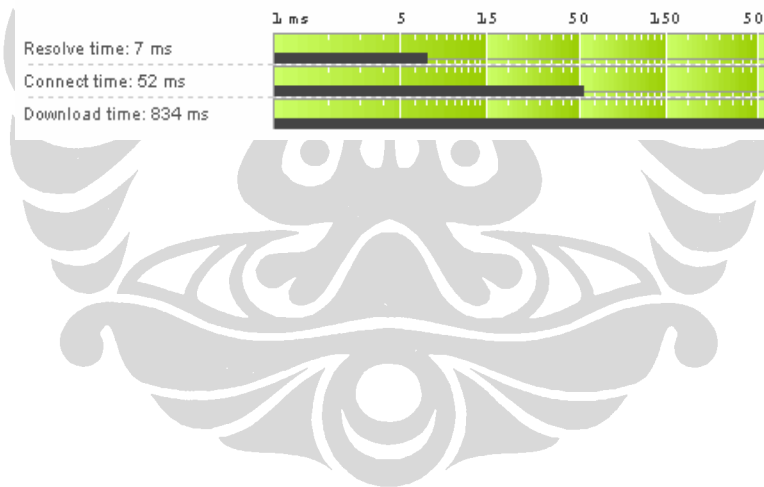
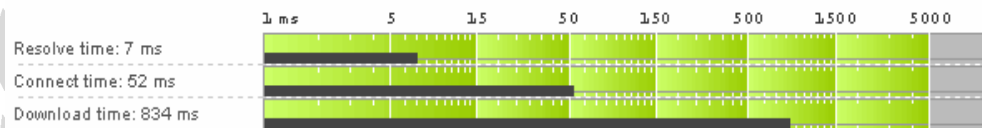
Location Florida, U.S.A.: OK
Download size: 16720 bytes



Location Munchen, Germany: OK
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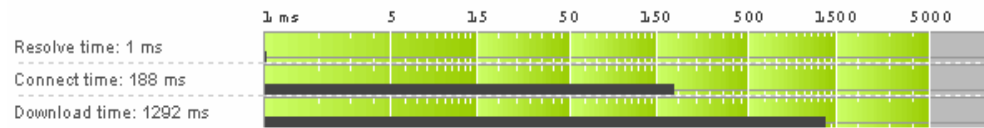


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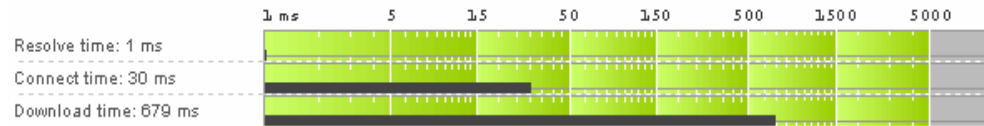
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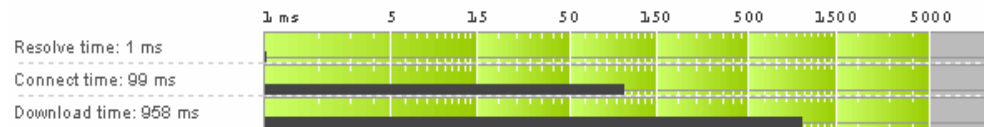
Location Stockholm, Sweden: OK

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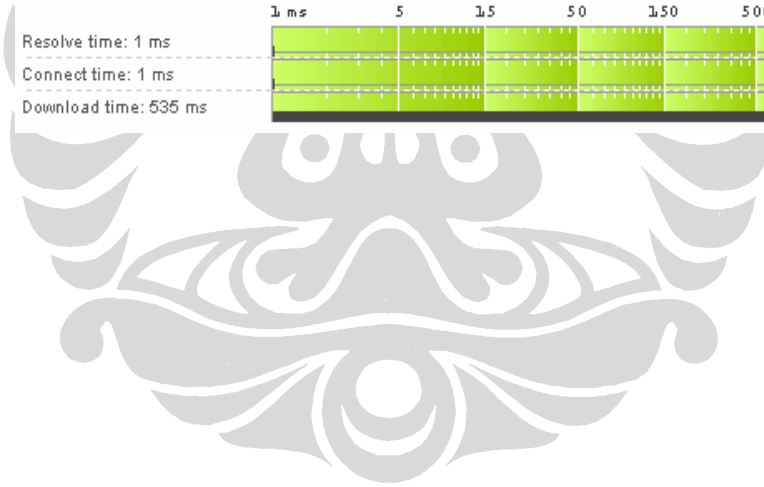
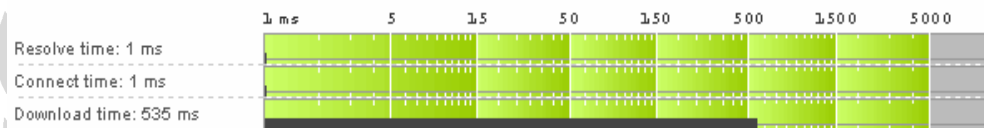
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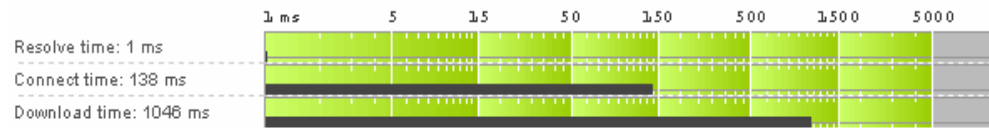
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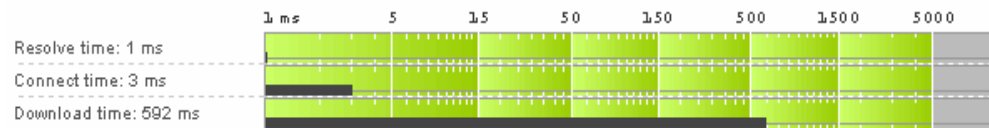
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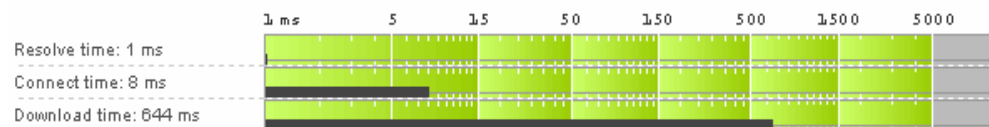
Location London, United Kingdom: OK

Download size: 16687 bytes



Location Amsterdam, Netherlands: OK

Download size: 16689 bytes



Location Copenhagen, Denmark: OK

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