BAB IV

RANCANGAN SISTEM JARINGAN USULAN

4.1 Manajemen Jaringan Usulan

4.1.1 Topologi Jaringan

Topologi jaringan pada sistem usulan ini sama seperti pada sistem yang digunakan pada sistem jaringan berjalan, hanya disini penulis menambahkan sebuah applikasi *DNS Filtering* dengan *Unbound*, yang di *install* di sebuah server.



Gambar IV.1 Topologi jaringan vsat pada Sistem jaringan usulan.

4.1.2. Skema Jaringan

Berdasarkan topologi yang penulis coba usulkan, maka penulis mencoba menggambarkan usulan tersebut menggunakan *Cisco Packet Tracer* versi 6.0.1.0011. Dengan *Software* ini penulis mencoba memberikan gambaran mengenai koneksi jaringan yang akan diimplementasikan di PT. Indo Pratama Teleglobal. Namun ada sedikit perbedaan mengenai *device* yang disediakan oleh *Cisco Packet Tracer* ini, dimana tidak adanya *device Modem Vsat*, dan *Satelite*. Sebagai gantinya penulis mencoba menggambarkan koneksi *Vsat* dengan *WAN* Emulation:



Gambar IV.2 Skema jaringan VSAT pada Sistem jaringan Usulan.

Untuk DNS Unbound, penulis mencoba menggunakan OS Linux Centos Server 7, DNS Unbound adalah adalah memvalidasi, rekursif, dan caching DNS resolver. awalnya dikembangkan di C berdasarkan dari prototipe Java. Penulisnya menulis kode sumber menjadi sangat modular dalam desain, dan menjadi sangat ringan. Mereka ingin merancang sebuah solusi yang akan menjadi sekecil mungkin yang akan mencapai persyaratan minimal sebagai validator, resolver, dan server caching. Selain memenuhi persyaratan ini, mereka ingin server untuk mencapai kinerja tinggi sangat.

Berikut adalah tahapan proses installasi unbound pada Centos 7:

- Install Centos Server, ikuti panduan yang ada di website: <u>http://jurnalinux.blogspot.co.id/2014/09/step-by-step-install-linux-centos-</u> <u>7.html</u>
- 2. Install package Unbound dengan menggunakan command " yum -y install unbound"

5					Contraction of the local division of the loc
[root@basara ~]# yum -y install unk Loaded plugins: fastestmirror	bound				
Setting up Install Process					
Loading mirror speeds from cached h	hostfile				ſ
epel/metalink				1.5.0 kB	00:00
* base: mirror.smartmedia.net.id					
* epel: mirror.smartmedia.net.id					
* extras: mirror.smartmedia.net.ic	1				
* remi-safe: mirrors.thzhost.com					
* updates: mirror.smartmedia.net.i	id				
base				3.7 kB	00:00
epel				1 4.3 kB	00:00
epel/primary db				1 4.9 MB	00:05
extras				1 3.4 kB	00:00
home aevseev				1.2 kB	00:00
home aevseev/primary				1 386 kB	00:02
home aevseev					1677/1677
remi-safe				2.9 kB	00:00
remi-safe/primary db				1 21 kB	00:00
updates				3.4 kB	00:00
updates/primary db				3.1 MB	00:03
Resolving Dependencies					
> Running transaction check					
> Package unbound.1686 0:1.5.4-1	1.11.el6 will be updated				
> Package unbound. 1686 0:1.5.4-1	1.15.el6 will be an update				
> Finished Dependency Resolution					
Dependencies Resolved					
Package	Arch	Version	Repository		Size
	***********************************	***************************************			
Opdating:					No. 201220
unbound	1686	1.5.4-1.15.e16	home_aevseev		1.3 M
Transaction Summary					
Opgrade 1 Package(s)					
local download Size: 1.3 M					
pownloading Packages:					
anbound-1.5.4-1.15.e16.1686.rpm				1 1.3 MB	00:07
Running ipm_cneck_debug					
Running Transaction Test					

Gambar IV.3 Installasi paket unbound

 Edit file konfigurasinya bisa menggunakan nano atau text editor lainnya (default file nya ada di /etc/unbound/unbound.conf), dan berikut adalah konfigurasi yang penulis gunakan.

server:

verbosity: 1 statistics-interval: 120 num-threads: 2 interface: 0.0.0.0 outgoing-range: 512 num-queries-per-thread: 1024 msg-cache-size: 32m rrset-cache-size: 64m msg-cache-slabs: 4 rrset-cache-slabs: 4 cache-max-ttl: 86400 infra-host-ttl: 60 infra-lame-ttl: 120 infra-cache-numhosts: 10000 infra-cache-lame-size: 10k *# root key file, automatically updated* #auto-trust-anchor-file: "/etc/unbound/root.key" do-ip4: yes do-ip6: no do-udp: yes do-tcp: yes

do-daemonize: yes

access-control: 0.0.0.0/0 allow

#access-control: 192.168.0.0/16 allow

#access-control: 172.16.0.0/12 allow

#access-control: 10.0.0.0/8 allow

#access-control: 127.0.0.0/8 allow

#access-control: 0.0.0.0/0 refuse

include: /etc/unbound/block.conf

chroot: "/etc/unbound"

username: "unbound"

directory: "/etc/unbound"

#logfile: "/var/log/unbound.log"

logfile: ""

use-syslog: no

#pidfile: "/etc/unbound/unbound.pid"

root-hints: "/etc/unbound/named.cache"

identity: "DNS"

version: "1.4"

hide-identity: yes

hide-version: yes

harden-glue: yes

do-not-query-address: 127.0.0.1/8

do-not-query-localhost: yes

module-config: "iterator"

forward-zone:

name: "."

forward-addr: 202.55.169.200 forward-addr: 202.55.172.7 forward-addr: 8.8.8 remote-control: control-enable: yes control-interface: 127.0.0.1 control-interface: 202.55.172.19 control-port: 953 server-key-file: "/etc/unbound/unbound_server.key" server-cert-file: "/etc/unbound/unbound_server.pem" control-key-file: "/etc/unbound/unbound_control.key"

4. File block.conf, bisa kita gunakan untuk memblock suatu websites, email dan iklan-iklan di website, berikut configurasi yang penulis gunakan. local-zone: "website.com" redirect local-data: "website.com A 202.55.172.19"

local-data: "website.com A 202.55.172.19" local-data: "example.com. 3600 IN MX 5 127.0.0.1" local-data: "example.com. 3600 IN A 127.0.0.1" 5. Lalu restart unbond dengan command "service unbound restart".

Proot@basara:/etc/unbound			and has seen over simple building, and the
[root@basara unbound]#	service unbound restart		
Checking configuration	of Unbound:		
Stopping Unbound:			
Checking configuration	of Unbound:		
Starting Unbound:			
[root@basara unbound]#			

Gambar IV.4 Restart Service unbound

4.1.3. Keamanan Jaringan

Keamanan jaringan usulan tetap sama seperti pada sistem keamanan yang berjalan sekarang yaitu dengan menggunakan perangkat *Allot Net-enforcer*.

4.2 Pengujian Jaringan

4.2.1 Pengujian Jaringan Awal

Pengujian jaringan awal dilakukan dengan melakukan *test* koneksi *internet* menggunakan dengan jaringan *Vsat existing*. Awalnya penulis sendiri melakukan pengujian dengan 1 buah Laptop. Dan melakukan *test browsing* ke beberapa alamat *situs* di *internet* yang di anggap tidak baik dan mengadung unsur sara, perjudian kekerasan atau pembajakan hak cipta dan *website-website* yang biasa di gunakan oleh user apakah bernasalah, antara lain :

- 1. <u>http://www.google.com</u>
- 2. <u>http://www.22sinema.com</u>
- 3. <u>http://www.agenbola.co</u>

- 4. <u>http://www.tumview.com</u>
- 5. <u>http://www.liputan6.com</u>

Berikut sample yang penulis dapatkan selama pengujian jaringan awal dengan menggunakan 1 buah Laptop pada jaringan *vsat*, ke 5 alamat url diatas, *sample* yang diambil antara lain :

- 1. *Test browsing* ke *website-website* tersebut.
- 2. *Nslookup website-website* tersebut.

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A https://www.google.co.id/?gws_rd=cr,ssl&cei=WLWJVuOIJo23uQS_mpCoCQ	C Q. Search			☆自	◙	+ 1	ñ 9	=
			(Gmail G	ambar	ш	Masu	k
	Google							
	Indonesia							
	Penelusuran Google Saya Lagi Beruntung							
	Google.co.id tersedia dalam: English Basa Jawa Basa Bali							
			_	-			_	
vascriptvoid(0) Bisnis Seputar		Privasi	Persyaratan	Setelar	G	unakan	Google.c	om

Gambar IV.5 Browsing www.google.com tanpa DNS Unbound



Gambar IV.6 Browsing <u>www.22sinema.com</u> tanpa DNS Unbound



Gambar IV.7 Browsing www.agenbola.co tanpa DNS Unbound

🔤 CNN indonesia	× TumView - A Tumblr I	Phot × +								
🕑 🕙 tumview.com				C Q kecelakaan di limo meruyung	depok ⇒	∔ ♠	9	☆	ê 🛡	4
Tum view Home	Popular August upda	tel					Se	arch ti	umblr	C
		Enter a Tumblr ID	.tumblr.com	Show the Photos »						
			RECENTLY VIEWED:							
			RECENTLY VIEWED:							
		tyrianity	RECENTLY VIEWED:	hairytacobell						
		toriunity airamizzthedom	RECENTLY VIEWED: lingerielesbian heels-and-leggings bailwinderfe	hairytacobell pervert-for-sluts						
		toriunity airanizzthedom androidgeneration derelaisensh trans	RECENTLY VIEWED: lingerielesbian heels-and-leggings hairydads	hairytacobell pervert-for-sluts angemonp3 ma sta-filipmi						
		torkuntsy airamizzthedom androidgeneration derelaisenchateaux worth ackdrike	RECENTLY VIEWED: lingerielesbian heels-and-leggings hairydads agrisguidetoinferionty novemilictuif	hairytacobell pervert-for-sluts angemorp3 meatprikimmi anythicange						
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Gambar IV.8 Browsing <u>www.tumview.com</u> tanpa DNS Unbound



Gambar IV.9 Browsing <u>www.liputan6.com</u> tanpa DNS Unbound



Gambar IV.10 Nslookup www.google.com tanpa DNS Unbound



Gambar IV.11 Nslookup ke www.22sinema.com tanpa Unbound



Gambar IV.12 Nslookup ke www.agenbola.cc tanpa Unbound



Gambar IV.13 Nslookup ke www.tumview.com tanpa Unbound



Gambar IV.14 Nslookup ke www.liputan6.com tanpa Unbound

4.2.2 Pengujian Jarigan Akhir

Pada Pengujian jaringan akhir ini dilakukan dengan melakukan percobaan menggunakan *Unbound*, dengan jaringan VSAT. Dalam tahap ini penulis langsung melakukan perubahan *rule* didalam Core Router Gilat (*Mikrobits Ainos*), dengan meredirect semua *traffic* DNS dari semua *remote Vsat* yang *Online* ke *Unbound* DNS *Server*, caranya adalah sebagai berikut :

1. Setelah *login* sebagai admin pada *mikrobits*, lalu masuk ke menu ip \rightarrow *firewall*.



Gambar IV.15 Menu Winbox

- 2. Lalu klik Tab NAT, lalu add new
- 3. Pada TAB General, bagian Chain pilih dstnat dari drop down menu, lalu pada bagian Protocol pilih tcp dari drop down menu, dan masukan 80 pada kolom Dst.Port

eneral Advanced Ext	ra Action Statistics		ОК
Chain: dstnat		₹	Cancel
Src. Address:			Apply
Dst. Address:		•	Disable
Protocol:	(udp)	T	Comment
Src. Port:			Сору
Dst. Port: 🗌 53		_	Remove
Any. Port:			Reset Counters
In. Interface:			Reset All Counters
Out. Interface:			
Packet Mark:		•	
onnection Mark:			
Routing Mark:			
Routing Table:			
onnection Type:			

Gambar IV.16 Add Rule Nat, Chain, Protocol dan DST.Port

 Lalu pilih Tab Action, pilih dst-nat dari drop down menu pada kolom Action, lalu masukan IP server unbound pada kolom To.Addressess, dan masukan Unbound port pada kolom To.Ports.

NAT Rule	<53>	
General Adva	anced Extra Action Statistics	ОК
Action:	dst-nat	Cancel
To Addresses:	202.55.172.19	Apply
To Ports:	53	Disable
		Comment
		Сору
		Remove
		Reset Counters
		Reset All Counters
disabled		_

Gambar IV.17 Add Rule NAT, Action

5. Klik Apply lalu OK, kemudian cek Bytes Counter dan Packets Counter, jika

rule tersebut berjalan maka nilai counter akan bertambah.

				il.								-
Firew	all											x
Filter Rul	es NAT	Mangle	Service Ports	Connections A	ddress List	s Layer7	Protocols					
+ -	× ×		7 00 Rese	et Counters	0 Reset A	I Counters				Find	all	₹
#	Action	Chain	Src. Address	s Dst. Address	Proto S	Src. Port	Dst. Port	In. Inter	Out. Int	Bytes	Packets	
0	- *dst	dstnat			17 (u		53			371.6 KiB	5 746	Í
1 X	≓ mas	srcnat		10 248 141					vlan38	0 B	0	1

Gambar IV.18 NAT Rule Packet Counter

Untuk memastikan apakah data tersebut memang sudah melalui *Unbound*, penulis melakukan analisa *log* yang berjalan dari *unbound*,

Jan 25 15:06 b Bases ubcould [731:0] info: server stars for thread 0: 6046 queries, 6006 answers from cache, 42 recursions, 0 prefetch Jan 25 15:06.06 b Bases ubcould [731:0] info: server stars for thread 0: 6046 queries, 6006 answers from cache, 42 recursions, 0 prefetch Jan 25 15:06.06 b Bases ubcould [731:0] info: server stars for thread 0: 6046 queries, 6006 answers from cache, 42 recursions, 0 prefetch Jan 25 15:06.06 b Bases ubcould [731:0] info: server stars for thread 0: 6046 queries, 6006 answers from cache, 42 recursions, 0 prefetch Jan 25 15:06.06 b Bases ubcould [731:0] info: server stars for thread 0: foresting time 1.74925 sec Jan 25 15:06.06 b Bases ubcould [731:0] info: server stars for thread 0: foresting time 1.74925 sec Jan 25 15:06.06 b Bases ubcould [731:0] info: 0.000120 0.004006 2 Jan 25 15:06.06 b Bases ubcould [731:0] info: 0.002120 0.004006 2 Jan 25 15:06.06 b Bases ubcould [731:0] info: 0.002120 0.02408 0 Jan 25 15:06.06 b Bases ubcould [731:0] info: 0.02248 0.002778 0 Jan 25 15:06.06 b Bases ubcould [731:0] info: 0.02428 0.002700 0 Jan 25 15:06.06 b Bases ubcould [731:0] info: 0.024248 0.002770 0.0242141 0 Jan 25 15:06.06 b Bases ubcould [731:0] info: 0.024248 0.002000 5 Jan 25 15:06.06 b Bases ubcould [731:0] info: 0.024248 0.000000 5 Jan 25 15:06.06 b Bases ubcould [731:0] info: 0.024248 0.000000 5 Jan 25 15:06.06 b Bases ubcould [731:0] info: 0.024248 0.000000 5 Jan 25 15:06.06 b Bases ubcould [731:0] info: 0.024248	proot@basara:~				
<pre>Jan 29 19:00:49 bases: unbound: [7310] info: serve: stopped unbound 1.4.20]. Jan 28 19:00:46 bases: unbound: [7310] info: serve: state for thread 0: forequestles, 0006 answers from coche, 42 recursions, 0 prefetch Jan 28 19:00:46 bases: unbound: [7310] info: serve: state for thread 0: requestles max 10 may 1.21429 exceeded 0 jostled 0 Jan 28 19:00:46 bases: unbound: [7310] info: proves recursion proceesing time 1.749302 sec Jan 28 19:00:46 bases: unbound: [7310] info: proves recursion proceesing time 1.749302 sec Jan 28 19:00:46 bases: unbound: [7310] info: proves proves info time Jan 28 19:00:46 bases: unbound: [7310] info: proves proves info time Jan 28 19:00:46 bases: unbound: [7310] info: proves proves info time Jan 28 19:00:46 bases: unbound: [7310] info: proves pr</pre>	Jan 25 15:35:0	5 basara unbound:	[7131:0]	nfo: start of service (unbound 1.4.20).	·
Jan 25 19:00:45 bases unbount [131:0] info: serve: facts for thread 0: 50046 operies, 80046	Jan 25 15:40:4	5 basara unbound:		nfo: service stopped (unbound 1.4.20).	
Jan 25 11:40:46 bases unbound: [731:0] info: server stats for thread 0: requestlist max 10 avg 1.21429 exceeded 0 jostled 0 Jan 25 15:40:46 bases unbound: [731:0] info: stronger requestion processing time 1.74925 sec Jan 25 15:40:46 bases unbound: [731:0] info: lb:ver(secs) upper(secs) requestions Jan 25 15:40:46 bases unbound: [731:0] info: lb:ver(secs) upper(secs) requestions Jan 25 15:40:46 bases unbound: [731:0] info: lb:ver(secs) upper(secs) requestions Jan 25 15:40:46 bases unbound: [731:0] info: lb:ver(secs) upper(secs) requestions Jan 25 15:40:46 bases unbound: [731:0] info: lb:ver(secs) upper(secs) requestions Jan 25 15:40:46 bases unbound: [731:0] info: lb:ver(secs) upper(secs) requestions Jan 25 15:40:46 bases unbound: [731:0] info: lb:ver(secs) upper(secs) requestions Jan 25 15:40:46 bases unbound: [731:0] info: lb:ver(secs) upper(secs) requestions Jan 25 15:40:46 bases unbound: [731:0] info: lb:ver(secs) upper(secs) requestions Jan 25 15:40:46 bases unbound: [731:0] info: lb:ver(secs) upper(secs) requestions Jan 25 15:40:46 bases unbound: [731:0] info: lb:ver(secs) upper(secs) requestions Jan 25 15:40:46 bases unbound: [731:0] info: lb:ver(secs) upper(secs) uppe	Jan 25 15:40:4	5 basara unbound:		nfo: server stats for thread 0: 8048 gueries, 8006 answers from cache, 42 recursions, 0 prefetch	
Jan 25 15:40:45 basers unbound: (731:0) info: info: average recursion processing time 1.749328 sec Jan 25 15:40:45 basers unbound: (731:0) info: 1231:0 info: 1231:0 Jane 1.4 (731=3.07143 Jan 25 15:40:45 basers unbound: (731:0) info: 10:00:126:00; Jane 1:00:127, Jane 1:00:127	Jan 25 15:40:4	5 basara unbound:		nfo; server stats for thread 0; requestlist max 10 avg 1,21429 exceeded 0 jostled 0	
Jan 2 5 15:00:45 bases unbound: 1731:00 info: 10xer(ecs) recursion processing times Jan 2 5 15:00:45 bases unbound: 1731:01 info: 10xer(ecs) recursions Jan 2 15:00:46 bases unbound: 1731:01 info: 0.000192 0.010894 2 Jan 2 15:00:45 bases unbound: 1731:01 info: 0.000192 0.010894 2 Jan 2 15:00:45 bases unbound: 1731:01 info: 0.000192 0.010894 2 Jan 2 15:00:45 bases unbound: 1731:01 info: 0.000192 0.010894 0.000010 Jan 2 15:00:45 bases unbound: 1731:01 info: 0.000192 0.010894 0.000010 Jan 2 15:00:45 bases unbound: 1731:01 info: 0.000192 0.000010 Jan 2 15:00:45 bases unbound: 1731:01 info: 0.02768 0.065306 1.000000 Jan 2 15:00:45 bases unbound: 1731:01 info: 0.02768 0.065306 1.0000000 1.00000 1.000000 1.000000 1.000000 1.000000 1.00000 1.00000 1.000000 1.00000 1.000	Jan 25 15:40:4	5 basara unbound:		nfo: average recursion processing time 1.749325 sec	
Jan 25 15:40:45 bases unbound: [7131:0] info: [254]=0.29512 median[50]=1.4 [754]=3.07133 Jan 25 15:40:46 bases unbound: [7131:0] info: 0.002048 0.000002 Jan 25 15:40:46 bases unbound: [7131:0] info: 0.002048 0.003768 3 Jan 25 15:40:46 bases unbound: [7131:0] info: 0.002048 0.003768 3 Jan 25 15:40:46 bases unbound: [7131:0] info: 0.005326 0.005836 1. Jan 25 15:40:46 bases unbound: [7131:0] info: 0.005326 0.015027 1. Jan 25 15:40:46 bases unbound: [7131:0] info: 0.005326 0.015027 1. Jan 25 15:40:46 bases unbound: [7131:0] info: 0.02766 0.065836 1. Jan 25 15:40:46 bases unbound: [7131:0] info: 0.02766 0.065836 0. Jan 25 15:40:46 bases unbound: [7131:0] info: 0.22748 0.052748 1. Jan 25 15:40:46 bases unbound: [7131:0] info: 0.22748 0.524288 1. Jan 25 15:40:46 bases unbound: [7131:0] info: 0.22748 0.524288 1. Jan 25 15:40:46 bases unbound: [7131:0] info: 0.22748 0.524288 1. Jan 25 15:40:46 bases unbound: [7131:0] info: 0.22748 0.524288 1. Jan 25 15:40:46 bases unbound: [7131:0] info: 2.200000 1. Jan 25 15:40:46 bases unbound: [7131:0] info: 8.00000 1. Jan 25 15:40:46 bases unbound: [7131:0] info: server stars for thread 1: 8288 queries, 8130 anwers from cache, 158 recursions, 2 prefetch Jan 25 15:40:46 bases unbound: [7131:0] info: server stars for thread 1: 8288 queries, 8130 anwers from cache, 158 recursions, 2 prefetch Jan 25 15:40:46 bases unbound: [7131:0] info: server stars for thread 1: 8288 queries, 8130 anwers from cache, 158 recursions, 2 prefetch Jan 25 15:40:46 bases unbound: [7131:0] info: server stars for thread 1: 8288 queries, 8130 anwers from cache, 158 recursions, 2 prefetch Jan 25 15:40:46 bases unbound: [7131:0] info: server stars for thread 1: 8288 queries, 8130 anwers from cache, 158 recursions, 2 prefetch Jan 25 15:40:46 bases unbound: [7131:0] info: server stars for thread 1: 8282 queries, 8130 anwers from cache, 158 recursions, 2 prefetch Jan 25 15:40:46 bases unbound: [7131:0] info: server stars for thread 1: 8202(F151]=5. Jan 25 15:40:46 bases unbound: [7131:0] info	Jan 25 15:40:4	5 basara unbound:		nfo: histogram of recursion processing times	
Jan 2 51:40:46 bases unbound: 1731:00 infc: 1.000216 0.000306 2.00006 2. Jan 2 51:40:46 bases unbound: 1731:01 infc: 0.00216 0.00406 2. Jan 2 51:40:46 bases unbound: 1731:01 infc: 0.00216 0.00406 2. Jan 2 51:40:46 bases unbound: 1731:01 infc: 0.00276 0.00405 2. Jan 2 51:40:46 bases unbound: 1731:01 infc: 0.00276 0.064536 1. Jan 2 51:40:46 bases unbound: 1731:01 infc: 0.00276 0.064536 1. Jan 2 51:40:46 bases unbound: 1731:01 infc: 0.00276 0.064536 1. Jan 2 51:40:46 bases unbound: 1731:01 infc: 0.00276 0.046536 1. Jan 2 51:40:46 bases unbound: 1731:01 infc: 0.00276 0.464346 1. Jan 2 51:40:46 bases unbound: 1731:01 infc: 0.002000 1.400000 5. Jan 2 51:40:46 bases unbound: 1731:01 infc: 1.000000 4.000000 14. Jan 2 51:40:46 bases unbound: 1731:01 infc: 4.000000 4.000000 14. Jan 2 51:40:46 bases unbound: 1731:01 infc: 4.000000 4.000000 14. Jan 2 51:40:46 bases unbound: 1731:01 infc: interversites for thread 1: requestize max 5 avg 1.6625 exceeded 0 jostled 0 Jan 2 51:40:46 bases unbound: 1731:01 infc: interversites 1 requestize max 5 avg 1.6625 exceeded 0 jostled 0 Jan 2 51:40:46 bases unbound: 1731:01 infc: interversites 1 requestize max 5 avg 1.6625 exceeded 0 jostled 0 Jan 2 51:40:46 bases unbound: 1731:01 infc: interversites 1 requestize max 5 avg 1.6625 exceeded 0 jostled 0 Jan 2 51:40:46 bases unbound: 1731:01 infc: 1.00000 14. Jan 2 51:40:46 bases unbound: 1731:01 infc: 0.10167 0.026740 0.262740 0. Jan 2 51:40:46 bases unbound: 1731:01 infc: 0.524240 0.726240 0. Jan 2 51:40:46 bases unbound: 1731:01 infc: 0.524240 0.726242 0. Jan 2 51:40:46 bases unbound: 1731:01 infc: 1.2000000 14. Jan 2 51:40:46 bases unbound: 1731:0	Jan 25 15:40:4	5 basara unbound:		nfo: [25%]=0.294912 median[50%]=1.4 [75%]=3.07143	
Jan 25 15:40:46 bases unbound: [7131:0] infc: 0.002046 0.00406 2 Jan 25 15:40:46 bases unbound: [7131:0] infc: 0.00532 0.015394 2 Jan 25 15:40:46 bases unbound: [7131:0] infc: 0.02766 0.065394 1 Jan 25 15:40:46 bases unbound: [7131:0] infc: 0.02766 0.065394 1 Jan 25 15:40:46 bases unbound: [7131:0] infc: 0.02766 0.065394 1 Jan 25 15:40:46 bases unbound: [7131:0] infc: 0.02766 0.065394 1 Jan 25 15:40:46 bases unbound: [7131:0] infc: 0.02766 0.065394 1 Jan 25 15:40:46 bases unbound: [7131:0] infc: 0.224:24 0.524:28 4 Jan 25 15:40:46 bases unbound: [7131:0] infc: 0.224:24 0.524:28 4 Jan 25 15:40:46 bases unbound: [7131:0] infc: 0.224:24 0.524:28 4 Jan 25 15:40:46 bases unbound: [7131:0] infc: 1.000000 2.000000 5 Jan 25 15:40:46 bases unbound: [7131:0] infc: 1.000000 2.000000 1 Jan 25 15:40:46 bases unbound: [7131:0] infc: 8.000000 1.6000000 1 Jan 25 15:40:46 bases unbound: [7131:0] infc: sever stars for thread 1: 828 queries, 8130 answers from cache, 158 recursions, 2 prefetch Jan 25 15:40:46 bases unbound: [7131:0] infc: sever stars for thread 1: 828 queries, 8130 answers from cache, 158 recursions, 2 prefetch Jan 25 15:40:46 bases unbound: [7131:0] infc: sever stars for thread 1: 828 queries, 8130 answers from cache, 158 recursions, 2 prefetch Jan 25 15:40:46 bases unbound: [7131:0] infc: sever stars for thread 1: 828 queries, 8130 answers from cache, 158 recursions, 2 prefetch Jan 25 15:40:46 bases unbound: [7131:0] infc: infc: [50]=7.622(75]=7.7055 Jan 25 15:40:46 bases unbound: [7131:0] infc: infc: [50]=7.622(76) = 2.02064 sec Jan 25 15:40:46 bases unbound: [7131:0] infc: infc: [50]=7.622(76) = 2.02064 sec Jan 25 15:40:46 bases unbound: [7131:0] infc: 0.51242 0.52440 0.72440	Jan 25 15:40:4	5 basara unbound:		nfo: lower(secs) upper(secs) recursions	
Jan 25 15:40745 basers unbound: [7131:0] infc: 0.008192 0.014384 2 Jan 25 15:40745 basers unbound: [7131:0] infc: 0.032768 0.068536 1 Jan 25 15:40745 basers unbound: [7131:0] infc: 0.032768 0.068536 1 Jan 25 15:40745 basers unbound: [7131:0] infc: 0.052768 0.068536 1 Jan 25 15:40745 basers unbound: [7131:0] infc: 0.052748 0.068536 1 Jan 25 15:40745 basers unbound: [7131:0] infc: 0.052748 0.068536 1 Jan 25 15:40745 basers unbound: [7131:0] infc: 0.052748 0.068536 1 Jan 25 15:40745 basers unbound: [7131:0] infc: 0.052748 0.068536 0.1 Jan 25 15:40745 basers unbound: [7131:0] infc: 0.052748 0.06000 1 Jan 25 15:40745 basers unbound: [7131:0] infc: 0.050000 4.000000 1 Jan 25 15:40745 basers unbound: [7131:0] infc: 4.000000 4.000000 1 Jan 25 15:40745 basers unbound: [7131:0] infc: 4.000000 4.000000 1 Jan 25 15:40745 basers unbound: [7131:0] infc: excer stats for thread 1: requestlat max 5 avg 1.6625 exceeded 0 jostled 0 Jan 25 15:40745 basers unbound: [7131:0] infc: excer stats for thread 1: 2.622048 sec Jan 25 15:40745 basers unbound: [7131:0] infc: excer stats for thread 1: 2.622048 sec Jan 25 15:40745 basers unbound: [7131:0] infc: excer stats for thread 1: 2.622048 sec Jan 25 15:40745 basers unbound: [7131:0] infc: excer stats for thread 1: 2.622048 sec Jan 25 15:40745 basers unbound: [7131:0] infc: infc: excer stats for thread 1: 2.622048 sec Jan 25 15:40745 basers unbound: [7131:0] infc: 0.10000 1.600000 14 Jan 25 15:40745 basers unbound: [7131:0] infc: 0.101072 0.262144 2 Jan 25 15:40745 basers unbound: [7131:0] infc: 0.101072 0.262144 2 Jan 25 15:40745 basers unbound: [7131:0] infc: 0.524288 1.000000 14 Jan 25 15:40745 basers unbound: [7131:0] infc: 0.524288 1.000000 14 Jan 25 15:40745 basers unbound: [7131:0] infc: 0.524288 1.000000 14 Jan 25 15:40745 basers unbound: [7131:0] infc: 0.524288 1.000000 14 Jan 25 15:40745 basers unbound: [7131:0] infc: 0.524288 1.000000 14 Jan 25 15:40745 basers unbound: [7131:0] infc: 0.524288 1.000000 14 Jan 25 15:40745 basers unbound: [7131:0] infc:	Jan 25 15:40:4	5 basara unbound:		nfo: 0.002048 0.004096 2	
Jan 28 15:40:45 basers unbound: (713:10) infC: 0.023760 0.065356 1 Jan 28 15:40:45 basers unbound: (713:10) infC: 0.023760 0.065356 1 Jan 28 15:40:45 basers unbound: (713:10) infC: 0.023760 0.065356 1 Jan 28 15:40:45 basers unbound: (713:10) infC: 0.0242144 0.524228 4 Jan 28 15:40:45 basers unbound: (713:10) infC: 0.242144 0.524228 4 Jan 28 15:40:45 basers unbound: (713:10) infC: 0.242144 0.524228 4 Jan 28 15:40:45 basers unbound: (713:10) infC: 0.242144 0.524228 4 Jan 28 15:40:45 basers unbound: (713:10) infC: 1.00000 4.00000 8 Jan 28 15:40:45 basers unbound: (713:10) infC: 5.00000 4.00000 1 Jan 25 15:40:45 basers unbound: (713:10) infC: 5.00000 4.00000 1 Jan 25 15:40:45 basers unbound: (713:10) infC: 5.00000 4.00000 1 Jan 25 15:40:45 basers unbound: (713:10) infC: server stars for thread 1: 5858 queries, 8130 answers from cache, 158 recursions, 2 prefetch Jan 25 15:40:45 basers unbound: (713:10) infC: server stars for thread 1: 5858 queries, 8130 answers from cache, 158 recursions, 2 prefetch Jan 25 15:40:45 basers unbound: (713:10) infC: server stars for thread 1: 5858 queries, 8130 answers from cache, 158 recursions, 2 prefetch Jan 25 15:40:45 basers unbound: (713:10) infC: server stars for thread 1: 5858 queries, 8130 answers from cache, 158 recursions, 2 prefetch Jan 25 15:40:45 basers unbound: (713:10) infC: server stars for thread 1: 5858 queries, 8130 answers from cache, 158 recursions, 2 prefetch Jan 25 15:40:45 basers unbound: (713:10) infC: 1.0027(secs) recursions Jan 25 15:40:45 basers unbound: (713:10) infC: 1.0027(secs) recursions Jan 25 15:40:45 basers unbound: (713:10) infC: 1.0027(secs) recursions Jan 25 15:40:45 basers unbound: (713:10) infC: 0.130:77 0.262144 2 Jan 25 15:40:45 basers unbound: (713:10) infC: 0.130:77 0.262144 2 Jan 25 15:40:45 basers unbound: (713:10) infC: 0.300:07 0 Jan 25 15:40:45 basers unbound: (713:10) infC: 1.000000 2.00000 24 Jan 25 15:40:45 basers unbound: (713:60) infC: second faster infC: 0.300:07 0 Jan 25 15:40:45 basers unbound: (713:60)	Jan 25 15:40:4	5 basara unbound:		nfo: 0.008192 0.016384 2	
San 28 13:40:45 bases unbound: [713:10] infc: 0.032768 0.068356 1 Jaz 28 13:40:46 bases unbound: [713:10] infc: 0.032768 0.06836 0.133072 1 Jaz 18 13:40:46 bases unbound: [713:10] infc: 0.032768 0.22144 0.24228 4 Jaz 18 13:40:46 bases unbound: [713:10] infc: 0.54288 1.000000 4 Jaz 18 13:40:46 bases unbound: [713:10] infc: 0.54288 1.000000 4 Jaz 18 13:40:46 bases unbound: [713:10] infc: 0.54288 1.000000 4 Jaz 18 13:40:46 bases unbound: [713:10] infc: 1.000000 4.000000 14 Jaz 18 13:40:46 bases unbound: [713:10] infc: 1.000000 4.00000 14 Jaz 18 13:40:46 bases unbound: [713:10] infc: 4.000000 1.00000 14 Jaz 18 13:40:46 bases unbound: [713:10] infc: except stars for thread 1: requestlas max 5 avg 1.6625 exceeded 0 jostled 0 Jaz 18 13:40:46 bases unbound: [713:10] infc: except stars for thread 1: requestlas max 5 avg 1.6625 exceeded 0 jostled 0 Jaz 18 13:40:46 bases unbound: [713:10] infc: except stars for thread 1: requestlas max 5 avg 1.6625 exceeded 0 jostled 0 Jaz 18 13:40:46 bases unbound: [713:10] infc: inf	Jan 25 15:40:4	5 basara unbound:		nfo: 0.016384 0.032768 3	
Jan 2 51:40:46 basers unbound: [713:10] infc: 0.068536 0.133072 1 Jan 2 51:40:46 basers unbound: [713:10] infc: 0.262144 0.524288 4 Jan 2 51:51:40:46 basers unbound: [713:10] infc: 0.262144 0.524288 4 Jan 2 51:51:40:46 basers unbound: [713:10] infc: 0.262144 0.524288 4 Jan 2 51:51:40:46 basers unbound: [713:10] infc: 1.000000 4.00000 5 Jan 2 51:51:40:46 basers unbound: [713:10] infc: 1.000000 4.00000 5 Jan 2 51:51:40:46 basers unbound: [713:10] infc: 1.000000 4.00000 5 Jan 2 51:51:40:46 basers unbound: [713:10] infc: 1.000000 4.00000 5 Jan 2 51:51:40:46 basers unbound: [713:10] infc: 1.000000 4.00000 1 Jan 2 51:51:40:46 basers unbound: [713:10] infc: 1.000000 4.00000 1 Jan 2 51:51:40:46 basers unbound: [713:10] infc: server stars for thread 1: requestlist max 5 wg 1.6625 exceeded 0 jostled 0 Jan 2 51:51:40:46 basers unbound: [713:10] infc: server stars for thread 1: requestlist max 5 wg 1.6625 exceeded 0 jostled 0 Jan 2 51:51:40:46 basers unbound: [713:10] infc: server stars for thread 1: requestlist max 5 wg 1.6625 exceeded 0 jostled 0 Jan 2 51:51:40:46 basers unbound: [713:10] infc: 1.00002 (750:10] 10:40:27:40 Jan 2 51:51:40:46 basers unbound: [713:10] infc: 1.00002 2.00000 1 Jan 2 51:51:40:46 basers unbound: [713:10] infc: 0.01003 2.010002 2 Jan 2 51:51:40:46 basers unbound: [713:10] infc: 0.01003 2.010002 2 Jan 2 51:51:40:46 basers unbound: [713:10] infc: 0.01072 0.262144 0.22280 7 Jan 2 51:51:40:46 basers unbound: [713:10] infc: 0.054284 0.022428 7 Jan 2 51:51:40:46 basers unbound: [713:10] infc: 0.054284 0.02244 0.22280 7 Jan 2 51:51:40:46 basers unbound: [713:10] infc: 0.054284 0.0000 24 Jan 2 51:51:40:46 basers unbound: [713:10] infc: 0.054284 0.0000 24 Jan 2 51:51:40:46 basers unbound: [713:10] infc: 1.000000 2.400000 2 Jan 2 51:51:40:46 basers unbound: [713:10] infc: 1.000000 2.400000 2 Jan 2 51:51:40:46 basers unbound: [713:10] infc: 1.000000 2.400000 2 Jan 2 51:51:40:46 basers unbound: [713:10] infc: 1.000000 2.400000 2 Jan 2 51:51:40:46 basers unbound: [713:10] infc: 1.0	Jan 25 15:40:4	5 basara unbound:		nfo: 0.032768 0.065536 1	
Jan 2 5 15:40:46 basers unbound: [713:10] infc: 0.252140 0.524288 4 Jan 2 5 15:40:46 basers unbound: [713:10] infc: 0.262140 0.524288 4 Jan 2 5 15:40:46 basers unbound: [713:10] infc: 0.260000 2 4 Jan 2 5 15:40:46 basers unbound: [713:10] infc: 0.260000 4 4.000000 5 Jan 2 5 15:40:46 basers unbound: [713:10] infc: 0.260000 4 4.000000 4 Jan 2 5 15:40:46 basers unbound: [713:10] infc: 0.260000 4 4.000000 1 Jan 2 5 15:40:46 basers unbound: [713:10] infc: 0.260000 4 4.000000 1 Jan 2 5 15:40:46 basers unbound: [713:10] infc: 0.260000 4 4.000000 1 Jan 2 5 15:40:46 basers unbound: [713:10] infc: 0.260000 4 4.00000 1 Jan 2 5 15:40:46 basers unbound: [713:10] infc: 0.260000 4 4.000000 1 Jan 2 5 15:40:46 basers unbound: [713:10] infc: 0.260000 4 4.000000 1 Jan 2 5 15:40:46 basers unbound: [713:10] infc: 0.260000 4 4.000000 1 Jan 2 5 15:40:46 basers unbound: [713:10] infc: 0.26000 4 4.000000 1 Jan 2 5 15:40:46 basers unbound: [713:10] infc: 0.26000 4 4.000000 1 Jan 2 5 15:40:46 basers unbound: [713:10] infc: 0.26000 4 4.000001 4 4.02000 1 Jan 2 5 15:40:46 basers unbound: [713:10] infc: 0.010:48 400 0.027:68 2 Jan 2 5 15:40:46 basers unbound: [713:10] infc: 0.010:48 400 0.027:68 2 Jan 2 5 15:40:46 basers unbound: [713:10] infc: 0.010:48 400 0.027:68 2 Jan 2 5 15:40:46 basers unbound: [713:10] infc: 0.026:144 0 Jan 2 5 15:40:46 basers unbound: [713:10] infc: 0.262:48 0.027:68 2 Jan 2 5 15:40:46 basers unbound: [713:10] infc: 0.262:48 0.027:68 2 Jan 2 5 15:40:46 basers unbound: [713:10] infc: 0.262:48 0.027:68 1 Jan 2 5 15:40:46 basers unbound: [713:10] infc: 0.262:48 0.027:68 1 Jan 2 5 15:40:46 basers unbound: [713:10] infc: 0.262:48 0.027:68 1 Jan 2 5 15:40:46 basers unbound: [713:10] infc: 1.000000 2.000000 14 Jan 2 5 15:40:46 basers unbound: [713:10] infc: 1.000000 2.000000 14 Jan 2 5 15:40:46 basers unbound: [713:10] infc: 1.000000 2.000000 14 Jan 2 5 15:40:46 basers unbound: [713:10] infc: 1.000000 2.000000 14 Jan 2 5 15:40:46 basers unbound: [713:10] infc: 1.000000 2.000000 14 Jan 2 5 15:4	Jan 25 15:40:4	5 basara unbound:		nfo: 0.065536 0.131072 1	
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Jan 25 15:46:45 basara unboundi ('13:16) info: 1.000000 2.000000 3 Jan 25 15:46:45 basara unboundi ('13:16) info: 4.000000 4.00000 106 Jan 25 15:46:46 basara unboundi ('13:66) info: start of service (unbound 1.4.2.0). Jan 25 15:40:46 basara unboundi ('13:66) info: start of service (unbound 1.4.2.0). Jan 25 15:40:46 basara unboundi ('13:66) info: start of service (unbound 1.4.2.0). Jan 25 17:37:07 basara unboundi ('13:66) notice: remote address is 1.40.3.03 port 0 Jan 25 17:37:07 basara unboundi ('13:66) notice: remote address is 1.40.3.3 port 0 Jan 25 17:37:97 basara unboundi ('13:66) notice: remote address is 17:41:23.38 port 0 Jan 25 17:37:97 basara unboundi ('13:66) notice: remote address is 15:40:44, 61 port 0 Jan 25 17:45:07 basara unboundi ('13:66) notice: remote address is 15:40:144, 61 port 0 Jan 25 17:45:07 basara unboundi ('13:66) notice: remote address is 15:40:144, 61 port 0 Jan 25 20:24:07 basara unboundi ('13:66) notice: remote address is 15:40:144, 61 port 0 Jan 25 20:24:07 basara unboundi ('13:66) notice: remote address is 15:40:144, 24.21:9 port 0 Jan 25 20:24:07 basara unboundi ('13:66) notice: remote address is 15:40:144, 24.21:9 port 0 Jan 25 20:24:07 basara unboundi ('13:66) notice: remote address is 12:8.140.22:4.21:9 port 0 Jan 25 20:24:07 basara unboundi ('13:66) notice: remote address is 12:8.140.22:4.21:9 port 0 Jan 25 20:24:07 basara unboundi ('13:66) notice: remote address is 12:8.140.22:4.21:9 port 0 Jan 25 20:24:07 basara unboundi ('13:66) notice: remote address is 12:8.140.22:4.21:9 port 0 Jan 25 20:24:07 basara unboundi ('13:66) notice: remote address is 12:8.140.22:4.21:9 port 0 Jan 25 20:24:07 basara unboundi ('13:66) notice: remote address is 12:8.140.22:4.21:9 port 0 Jan 25 20:24:07 basara unboundi ('13:66) notice: remote address is 12:8.140.22:4.21:9 port 0 Jan 25 20:24:07 basara unboundi ('13:66) notice: remote address is 12:8.140.22:4.21:9 port 0 Jan 25 20:24:07 basara unboundi ('13:66) notice: remote address is 12:8.140.22:4.21:9 port 0 Jan 25 20:24	Jan 25 15:40:4	5 basara unbound:	[7131:0]	nfo: 0.524288 1.000000 14	
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Gambar IV.19 Sample Log dari Unbound yang telah digunakan.



Gambar IV.20 Nslookup ke website-website yang di larang dengan Unbound



Gambar IV.22 Test DNS Unbound dengan Aplikasi namebench-1.3.1-Windows



Gambar IV.23 Browsing ke website-website yang di larang dengan Unbound

Dari gambar log diatas terlihat bahwa *traffic* untuk DNS sudah melalui *unbound* dan ketiga gambar selanjutnya menunjukan *test* untuk *server* unboun baik dengan aplikasi, *nslookup* dan mencoba *browsing* ke *website-website* yang di anggap tidak baik untuk customer dan jaringan *vsat*, setelah di implementasikannya *Unbound*.



Dan berikut adalah memory dan CPU usage dari server Unbound tersebut.

Gambar IV.26 Utilisasi CPU dari Server Unbound



Gambar IV.27 Utilisasi Memory (RAM) dari Server Unbound