Implementasi 802.1x EAP-TLS & PEAP-MSCHAPv2 , FreeRADIUS + dialupadmin + MySQL

Hardware :

- Wireless Client Adapter (USB Senao SL-2511UB4)
- Access Point (Compex WP11B+)
- PCMCIA Samsung SWL-2100N dengan hostap daemon (sebagai Access Point)
- Laptop DellC400 (Server Autentikasi)

Software

- OS Linux Mandrake 10.0 Official dengan FreeRADIUS + dialupadmin, Apache+mod_php, MySQL-server, OpenSSL sebagai Authentikasi Server.
- OS Windows XP SP2 digunakan sebagai Supplicant (Client)
- Software Administrasi AP berbasis Web dari Compex WP11B+



1. Wireless Client Windows XP sebagai Supplicant

3. Laptop dengan freeRadius Sebagai Authentication Server



1. Wireless Client Windows XP sebagai Supplicant





2. Linux dengan PCMCIA Card yang berfungsi sebagai AP authenticator (hostAF dan menyediakan freeRadius sebagai Authentication Server

1. Install MySQL server dan library MySQL-devel (CD Mandrake 10.0 Official)

Nama paket RPM : - MySQL-client-4.0.18-1mdk

- MySQL-4.0.18-1mdk
- MySQL-common-4.0.18-1mdk
- libmysql12-4.0.18-1mdk
- php-mysql-4.3.4-1mdk
- perl-Mysql-1.22_19-9mdk
- libmysql12-devel-4.0.18-1mdk

Pastikan paket paket diatas sudah terinstall dengan mengetik : rpm -qa |grep sql rpm -qa |grep SQL

Install Apache + mod_php (CD Mandrake 10.0 Official)
 Nama paket RPM : - apache2-common-2.0.48-6mdk

- apache2-modules-2.0.48-6mdk
- apache-conf-2.0.48-2mdk
- apache2-2.0.48-6mdk
- apache2-mod_php-2.0.48_4.3.4-1mdk
- php-ini-4.3.4-1mdk

Pastikan paket paket diatas sudah terinstall dengan mengetik : rpm -qa |grep apache rpm -qa |grep php

3. Install OpenSSL (CD Mandrake 10.0 Official) Nama paket RPM :

- openssl-0.9.7c-3mdk
- libopenssl0.9.7-0.9.7c-3mdk
- libopenssl0.9.7-devel-0.9.7c-3mdk

Pastikan paket paket diatas sudah terinstall dengan mengetik :

rpm -qa |grep ssl

4. Install FreeRadius (tarball) Nama Paket tarball : - freeradius-1.0.0.tar.gz http://www.freeradius.org Tahap Instalasi FreeRadius [root@lognight root]# mv freeradius-1.0.0.tar.gz /usr/local/ [root@lognight root]# cd /usr/local/ [root@lognight local]# tar -zxvf freeradius-1.0.0.tar.gz [root@lognight local]# cd freeradius-1.0.0 [root@lognight freeradius-1.0.0]# ./configure --prefix=/usr/local/radius [root@lognight freeradius-1.0.0]# make [root@lognight freeradius-1.0.0]# make install

Menyiapkan database radius di mysql server dengan cara : Pastikan mySQL server aktif [root@lognight freeradius-1.0.0]# /etc/init.d/mysql restart Stopping MySQL Server (pid 1638) [OK] Starting MySQL Server [OK] [root@lognight freeradius-1.0.0]# mysql -uroot -p<passwordrootsql> radius < src/modules/rlm sql/drivers/rlm sql mysql/db mysql.sql

Untuk mempermudah gunakan MySQL admin seperti phpMyAdmin untuk membuat user khusus menangani database radius.. Misal dengan phpMyAdmin create user "radius" dengan password "radius", maka untuk menyiapkan database radius dengan cara : [root@lognight freeradius-1.0.0]# mysql -uradius -pradius radius < src/modules/rlm_sql/drivers/rlm_sql_mysql/db_mysql.sql

5. Instalasi DialAdmin (dari source FreeRadius diatas)

[root@lognight freeradius-1.0.0]# ls

acconfig.h configure* INSTALL Makefile README aclocal.m4 configure.in install-sh* Make.inc redhat/ config.cache COPYRIGHT libltdl/ Make.inc.in scripts/ config.guess* CREDITS libtool* man/ share/ config.log debian/ LICENSE mibs/ src/ config.status* dialup_admin/ ltconfig* missing* suse/ config.sub* doc/ ltmain.sh* raddb/ todo/

[root@lognight freeradius-1.0.0]# mv dialup_admin /usr/local/dialup_admin

Menyiapkan table-table database radius untuk dapat menggunakan dialupadmin

[root@lognight freeradius-1.0.0]# cd /usr/local/dialup_admin/ [root@lognight dialup_admin]# ls

bin/ Changelog conf/ doc/ htdocs/ html/ lib/ README sql/

[root@lognight dialup_admin]# mysql -uradius -pradius radius < sql/badusers.sql

[root@lognight dialup_admin]# mysql -uradius -pradius radius < sql/mtotacct.sql

[root@lognight dialup_admin]# mysql -uradius -pradius radius < sql/totacct.sql

[root@lognight dialup_admin]# mysql -uradius -pradius radius < sql/userinfo.sql

- 6. Setting konfigurasi FreeRadius untuk Implementasi EAP-TLS dan PEAP-MSCHAPv2 dengan MySQL sebagai database
- cd /usr/local/radius/etc/raddb/
- vi radiusd.conf
- user = nobody
- group = nobody
- port = 1812

radiusd.conf

authorize { preprocess auth_log chap mschap suffix sql eap } accounting { detail sql radutmp }

sql.conf

sql {

driver = "rlm sql mysql" server = "localhost" port = "3306"login = "radius" password = "radius" radius db = "radius" acct table1 = "radacct" acct table2 = "radacct" postauth table = "radpostauth" authcheck_table = "radcheck" authreply table = "radreply" groupcheck_table = "radgroupcheck" groupreply table = "radgroupreply" usergroup table = "usergroup" sql_user_name = "%{User-Name}" ... dst ...

clients.conf

```
client 127.0.0.1 {
    secret = rahasia
   shortname = DellC400
    nastype = other # localhost isn't usually a NAS...
}
client 172.20.2.62 {
    secret = 1234rahas14
    shortname = cisco
    nastype = cisco
}
client 172.20.2.0/26 {
    secret = rahasia
   shortname = compex
   nastype
                     = other
}
client 172.16.1.0/24 {
    secret = rahasia
    shortname = DellC400
    nastype = other
}
```

naslist

# NAS Name	Short N	lame	Туре	
#				
localhost	local		portsla	ve
172.20.2.59	compex	<	other	
127.0.0.1	local		portsla	ve
lognight.te.ugm.ac.id	1	DellC4	00	other
172.20.2.62	cisco		cisco	

eap.conf (untuk EAP-TLS)

eap {

```
default_eap_type = tls
timer_expire = 60
ignore_unknown_eap_types = no
```

```
tls {
```

}

```
private_key_password = rahasiaeuy
private_key_file = ${raddbdir}/certs/cert-srv.pem
certificate_file = ${raddbdir}/certs/cert-srv.pem
# Trusted Root CA list
CA_file = ${raddbdir}/certs/demoCA/cacert.pem
dh_file = ${raddbdir}/certs/dh
random_file = ${raddbdir}/certs/random
```

}

eap.conf (untuk PEAP-MSCHAPv2)

```
eap {
        default eap type = peap
        timer expire = 60
        ignore unknown eap types = no
        tls {
             private_key_password = rahasiaeuy
             private key file = ${raddbdir}/certs/cert-srv.pem
             certificate file = ${raddbdir}/certs/cert-srv.pem
             # Trusted Root CA list
             CA file = ${raddbdir}/certs/demoCA/cacert.pem
             dh file = ${raddbdir}/certs/dh
             random file = ${raddbdir}/certs/random
         }
         peap {
             default eap type = mschapv2
         }
   }
```

Membuat Sertifikat

- FreeRADIUS menyediakan script CA.all (Interactive Script) dan CA.cert (Non-Interactive Script)
- cp /path/to/freeradius-1.0.0/scripts/CA.cert /usr/local/radius/etc/raadb/cert/
- cd /usr/local/radius/etc/raddb/certs/
- vi CA.certs

CA.certs

COUNTRY="ID" PROVINCE="D.I.Yogyakarta" CITY="Yogyakarta" ORGANIZATION="Gadjah Mada University" ORG_UNIT="Teknik.Elektro.UGM" PASSWORD="rahasia"

COMMON_NAME_CLIENT="KPLI-Jogja" EMAIL_CLIENT="jogja-linux@yahoogroups.com" PASSWORD_CLIENT=\$PASSWORD

COMMON_NAME_SERVER="nightlogin" EMAIL_SERVER="nightlogin@gmail.com" PASSWORD_SERVER=\$PASSWORD

COMMON_NAME_ROOT="Teknik Elektro UGM" EMAIL_ROOT="josh@ugm.ac.id" PASSWORD_ROOT=\$PASSWORD

xpextensions

[root@lognight certs]# vi xpextensions
[xpclient_ext]
extendedKeyUsage = 1.3.6.1.5.5.7.3.2.2.2
[xpserver_ext]
extendedKeyUsage = 1.3.6.1.5.5.7.3.1.2.1

Create Certs

sh CA.certs or ./CA.certs

Generating a 1024 bit RSA private key

.... dst

Create C	Certs	
root@lognight.te.ugm.ac.i	id: /usr/local/radius/etc/raddb/certs/test - Shell - Konsole	
Session Edit View Bookmarks Settings Help		
Not Before: Oct 7 04:17: Not After : Oct 7 04:17: Subject: countryName stateOrProvinceName localityName organizationName organizationalUnitName commonName emailAddress X509v3 extensions: X509v3 Extended Key Usage 1.3.6.1.5.5.7.3.1.2.1 Certificate is to be certified until Sign the certificate? [y/n]: 1 out of 1 certificate requests certificate Data Base Updated MAC verified OK	:20 2004 GMT :20 2005 GMT = ID = D.I.Yogyakarta = Yogyakarta = Gadjah Mada University = Teknik.Elektro.UGM = Teknik Elektro UGM = josh@ugm.ac.id e: 1 Oct 7 04:17:20 2005 GMT (365 days) ified, commit? [y/n]Write out database with 1 new ent	rie
######################################	############# your patience. ################	
		- -

Hasil Sertifikat

[root@lognight certs]# ls

CA.certs* cert-clt.p12 cert-srv.der cert-srv.pem newcert.pem root.der root.pem

cert-clt.der cert-clt.pem cert-srv.p12 demoCA/ newreq.pem root.p12 xpextensions

[root@lognight certs]#

Siap di gunakan untuk Radius Server dan Client/Supplicant

Mengaktifkan Radiusd

Mode debugging #/usr/local/radius/sbin/radiusd –Xxx

Mode Background #/usr/local/radius/sbin/radiusd Session Edit View Bookmarks Settings Help

[ro	ot@lo	gni	ight radiu	us]#,	/u	sr/loca	l/radius/sbin/radiusd -Xxx
Thu	0ct	7	12:09:31	2004		Info:	Starting - reading configuration files
Thu	0ct	7	12:09:31	2004		Debug:	reread_config: reading radiusd.conf
Thu	0ct	7	12:09:31	2004		Debug:	Config: including file: /usr/local/radius/etc/raddb/proxy.conf
Thu	0ct	7	12:09:31	2004		Debug:	Config: including file: /usr/local/radius/etc/raddb/clients.conf
Thu	0ct	7	12:09:31	2004		Debug:	Config: including file: /usr/local/radius/etc/raddb/snmp.conf
Thu	0ct	7	12:09:31	2004		Debug:	Config: including file: /usr/local/radius/etc/raddb/eap.conf
Thu	0ct	7	12:09:31	2004		Debug:	Config: including file: /usr/local/radius/etc/raddb/sql.conf
Thu	0ct	7	12:09:31	2004		Debug:	main: prefix = "/usr/local/radius"
Thu	0ct	7	12:09:31	2004		Debug:	main: localstatedir = "/usr/local/radius/var"
Thu	0ct	7	12:09:31	2004		Debug:	main: logdir = "/usr/local/radius/var/log/radius"
Thu	0ct	7	12:09:31	2004		Debug:	main: libdir = "/usr/local/radius/lib"
Thu	0ct	7	12:09:31	2004		Debug:	main: radacctdir = "/usr/local/radius/var/log/radius/radacct"
Thu	0ct	7	12:09:31	2004		Debug:	main: hostname_lookups = no
Thu	0ct	7	12:09:31	2004		Debug:	main: max_request_time = 30
Thu	0ct	7	12:09:31	2004		Debug:	main: cleanup_delay = 5
Thu	0ct	7	12:09:31	2004		Debug:	main: max_requests = 1024
Thu	0ct	7	12:09:31	2004		Debug:	main: delete_blocked_requests = 0
Thu	0ct	7	12:09:31	2004		Debug:	main: port = 1812
Thu	0ct	7	12:09:31	2004		Debug:	main: allow_core_dumps = no
Thu	0ct	7	12:09:31	2004		Debug:	main: log_stripped_names = no
Thu	0ct	7	12:09:31	2004		Debug:	main: log_file = "/usr/local/radius/var/log/radius/radius.log"
Thu	0ct	7	12:09:31	2004		Debug:	main: log_auth = no
Thu	0ct	7	12:09:31	2004		Debug:	main: log_auth_badpass = no
Thu	0ct	7	12:09:31	2004		Debug:	main: log_auth_goodpass = no
Thu	0ct	7	12:09:31	2004		Debug:	main: pidfile = "/usr/local/radius/var/run/radiusd/radiusd.pid"
Thu	0ct	7	12:09:31	2004		Debug:	main: user = "nobody"
Thu	0ct	7	12:09:31	2004		Debug:	main: group = "nobody"
Thu	0ct	7	12:09:31	2004		Debug:	main: usercollide = no
Thu	0ct	7	12:09:31	2004		Debug:	main: lower_user = "no"
Thu	0ct	7	12:09:31	2004		Debug:	main: lower_pass = "no"
Thu	0ct	7	12:09:31	2004		Debug:	main: nospace_user = "no"
Thu	0ct	7	12:09:31	2004		Debug:	main: nospace_pass = "no"
Thu	0ct	7	12:09:31	2004		Debug:	main: checkrad = "/usr/local/radius/sbin/checkrad"
Thu	0ct	7	12:09:31	2004		Debug:	main: proxy_requests = yes
Thu	0ct	7	12:09:31	2004		Debug:	proxy: retry_delay = 5

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Session Edit View Bookmarks Settings Help

Thu Oct 7 12:09:31 2004 : Debug: Module: Loaded eap
Thu Oct 7 12:09:31 2004 : Debug: eap: default_eap_type = "peap"
Thu Oct 7 12:09:31 2004 : Debug: eap: timer_expire = 60
Thu Oct 7 12:09:31 2004 : Debug: eap: ignore_unknown_eap_types = no
Thu Oct 7 12:09:31 2004 : Debug: eap: cisco_accounting_username_bug = no
Thu Oct 7 12:09:31 2004 : Debug: rlm_eap: Loaded and initialized type md5
Thu Oct 7 12:09:31 2004 : Debug: rlm_eap: Loaded and initialized type leap
Thu Oct 7 12:09:31 2004 : Debug: gtc: challenge = "Password: "
Thu Oct 7 12:09:31 2004 : Debug: gtc: auth_type = "PAP"
Thu Oct 7 12:09:31 2004 : Debug: rlm_eap: Loaded and initialized type gtc
Thu Oct 7 12:09:31 2004 : Debug: tls: rsa_key_exchange = no
Thu Oct 7 12:09:31 2004 : Debug: tls: dh_key_exchange = yes
Thu Oct 7 12:09:31 2004 : Debug: tls: rsa_key_length = 512
Thu Oct 7 12:09:31 2004 : Debug: tls: dh_key_length = 512
Thu Oct 7 12:09:31 2004 : Debug: tls: verify_depth = 0
Thu Oct 7 12:09:31 2004 : Debug: tls: CA_path = "(null)"
Thu Oct 7 12:09:31 2004 : Debug: tls: pem_file_type = yes
Thu Oct 7 12:09:31 2004 : Debug: tls: private_key_file = "/usr/local/radius/etc/raddb/certs/cert-srv.pem"
Thu Oct 7 12:09:31 2004 : Debug: tls: certificate_file = "/usr/local/radius/etc/raddb/certs/cert-srv.pem"
Thu Oct 7 12:09:31 2004 : Debug: tls: CA_file = "/usr/local/radius/etc/raddb/certs/demoCA/cacert.pem"
Thu Oct 7 12:09:31 2004 : Debug: tls: private_key_password = "rahasia"
Thu Oct 7 12:09:31 2004 : Debug: tls: dh_file = "/usr/local/radius/etc/raddb/certs/dh"
Thu Oct 7 12:09:31 2004 : Debug: tls: random_file = "/usr/local/radius/etc/raddb/certs/random"
Thu Oct 7 12:09:31 2004 : Debug: tls: fragment_size = 1024
Thu Oct 7 12:09:31 2004 : Debug: tls: include_length = yes
Thu Oct 7 12:09:31 2004 : Debug: tls: check_crl = no
Thu Oct 7 12:09:31 2004 : Debug: tls: check_cert_cn = "(null)"
Thu Oct 7 12:09:31 2004 : Debug: rlm_eap: Loaded and initialized type tls
Thu Oct 7 12:09:31 2004 : Debug: peap: default_eap_type = "mschapv2"
Thu Oct 7 12:09:31 2004 : Debug: peap: copy_request_to_tunnel = no
Thu Oct 7 12:09:31 2004 : Debug: peap: use_tunneled_reply = no
Thu Oct 7 12:09:31 2004 : Debug: peap: proxy_tunneled_request_as_eap = yes
Thu Oct 7 12:09:31 2004 : Debug: rlm_eap: Loaded and initialized type peap
Thu Oct 7 12:09:31 2004 : Debug: mschapv2: with_ntdomain_hack = no
Thu Oct 7 12:09:31 2004 : Debug: rlm_eap: Loaded and initialized type mschapv2
Thu Oct 7 12:09:31 2004 : Debug: Module: Instantiated eap (eap)

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Session Edit View Bookmarks Settings Help

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Thu	0ct	7	12:09:31	2004		Debug: rlm_sql (sql): Connected new DB handle, #1 🔼
Thu	0ct	7	12:09:31	2004		Debug: rlm_sql (sql): starting 2
Thu	0ct	7	12:09:31	2004		Debug: rlm_sql (sql): Attempting to connect rlm_sql_mysql #2
Thu	0ct	7	12:09:31	2004		Info: rlm_sql_mysql: Starting connect to MySQL server for #2
Thu	0ct	7	12:09:31	2004		Debug: rlm_sql (sql): Connected new DB handle, #2
Thu	0ct	7	12:09:31	2004		Debug: rlm_sql (sql): starting 3
Thu	0ct	7	12:09:31	2004		Debug: rlm_sql (sql): Attempting to connect rlm_sql_mysql #3
Thu	0ct	7	12:09:31	2004		Info: rlm_sql_mysql: Starting connect to MySQL server for #3
Thu	0ct	7	12:09:31	2004		Debug: rlm_sql (sql): Connected new DB handle, #3
Thu	0ct	7	12:09:31	2004		Debug: rlm_sql (sql): starting 4
Thu	0ct	7	12:09:31	2004		Debug: rlm_sql (sql): Attempting to connect rlm_sql_mysql #4
Thu	0ct	7	12:09:31	2004		Info: rlm_sql_mysql: Starting connect to MySQL server for #4
Thu	0ct	7	12:09:31	2004		Debug: rlm_sql (sql): Connected new DB handle, #4
Thu	0ct	7	12:09:31	2004		Debug: Module: Instantiated sql (sql)
Thu	0ct	7	12:09:31	2004		Debug: Module: Loaded Acct-Unique-Session-Id
Thu	0ct	7	12:09:31	2004		Debug: acct_unique: key = "User-Name, Acct-Session-Id, NAS-IP-Address, Client-IP-Address
, NA	S-Po	rt"				
Thu	0ct	7	12:09:31	2004		Debug: Module: Instantiated acct_unique (acct_unique)
Thu	0ct	7	12:09:31	2004		Debug: detail: detailfile = "/usr/local/radius/var/log/radius/radacct/%{Client-IP-Addres
s}/d	etai	l-%	sY%m%d"			
Thu	0ct	7	12:09:31	2004		Debug: detail: detailperm = 384
Thu	0ct	7	12:09:31	2004		Debug: detail: dirperm = 493
Thu	0ct	7	12:09:31	2004		Debug: detail: locking = no
Thu	0ct	7	12:09:31	2004		Debug: Module: Instantiated detail (detail)
Thu	0ct	7	12:09:31	2004		Debug: Module: Loaded radutmp
Thu	0ct	7	12:09:31	2004		Debug: radutmp: filename = "/usr/local/radius/var/log/radius/radutmp"
Thu	0ct	7	12:09:31	2004		Debug: radutmp: username = "%{User-Name}"
Thu	0ct	7	12:09:31	2004		Debug: radutmp: case_sensitive = yes
Thu	0ct	7	12:09:31	2004		Debug: radutmp: check_with_nas = no
Thu	0ct	7	12:09:31	2004		Debug: radutmp: perm = 384
Thu	0ct	7	12:09:31	2004		Debug: radutmp: callerid = yes
Thu	0ct	7	12:09:31	2004		Debug: Module: Instantiated radutmp (radutmp)
Thu	0ct	7	12:09:31	2004		Debug: Listening on authentication *:1812
Thu	0ct	7	12:09:31	2004		Debug: Listening on accounting *:1813
Thu	0ct	7	12:09:31	2004		Debug: Listening on proxy *:1814
Thu	0ct	7	12:09:31	2004		Info: Ready to process requests.
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Setting DialupAdmin

7. Setting DialupAdmin

- cd /usr/local/dialup_admin/conf
- ls

accounting.attrs auth.request default.vals sql.attrmap user_edit.attrs

admin.conf captions.conf extra.ldap-attrmap sql.attrs username.mappings

admin.conf.default config.php3 naslist.conf sql.attrs.default

admin.conf

general base dir: /usr/local/dialup admin general_radiusd_base_dir: /usr/local/radius/sbin/ general radius server: localhost general domain: te.ugm.ac.id general_radius_server_port: 1812 sql type: mysql sql server: localhost sql port: 3306 sql username: radius sql password: radius sql database: radius sql accounting table: radacct sql badusers table: badusers sql check table: radcheck sql reply table: radreply sql user info table: userinfo sql groupcheck table: radgroupcheck sql groupreply table: radgroupreply sql usergroup table: usergroup sql total accounting table: totacct sql nas table: nas sql command: /usr/bin/mysql

naslist.conf

#nas1 name: lantai 1.%{general domain} #nas1 model: Compex WP11B+ #nas1 ip: 172.16.0.201 #nas1 community: public #nas2 name: lantai 2.%{general domain} #nas2 model: Compex WP11B+ #nas2 ip: 172.16.80.201 #nas2 community:public #nas2 type: cisco #nas3 name: lantai 3.%{general domain} #nas3 model: Compex WP11B+ #nas3 ip: 172.16.160.201 #nas3 community: public nas4 name: DellC400 nas4 model: HostAP nas4 type: other nas4 ip: 172.16.1.1 nas4 community: public nas5 name: compex nas5 model: Compex WP11B+ nas5 type: other nas5 ip: 172.20.2.59 nas5 community: public

 Setting Apache untuk dialupadmin # grep DocumentRoot /etc/httpd/conf/httpd2.conf
 DocumentRoot /var/www/html

In -s /usr/local/dialupadmin/htdocs
/var/www/html/dialadmin

/etc/init.d/httpd restart
Shutting down httpd2:
Starting httpd2:

[OK] [OK]

DialupAdmin interface

9	dialup administration - Konqueror	? _ 🗆 🗙
<u>L</u> ocation <u>E</u> dit <u>V</u> iew	<u>Go B</u> ookmarks <u>T</u> ools <u>S</u> ettings <u>W</u> indow <u>H</u> elp	
		<u></u>
🕴 🖾 L <u>o</u> cation: 💽 h	ttp://127.0.0.1/dialadmin/	
	ocelle che chomich	
Main Menu		
Home	A web based administration interface for the freeradius radius server	
Accounting		
Statistics		
User Statistics		
Online Users		
RADIUSClients		
Bad Users		
Failed Logins		
Page loaded.		

Menambah User

Location: 💽 http://172.20.2.19	10] _] (국) (국) 등상 동식 9/dialadmin/	¥ 🔲	
Main Menu	DIAL	User Preferences for new user	
Home	Username	nightlogin	
Accounting	Password	nightloginpassword	
Statistics	Group	admin -	
Online Users	Name (First Name Surname)	Night Login	
RADIUSClients	Mail	nightlogin@gmail.com	
Bad Users	Department	TE UGM	
Failed Logins	Home Phone	8969869	
Find User	Work Phone	969698	
Edit User	Mobile Phone	699696	
New User	Protocol =		
	IP Address = 👻		
Show Groups	IP Netmask =		
	Framed-MTU =		
New Group	Compression Used		
	Service Type		

Setting Authenticator Access Point Compex WP11B+

Mozilla Firefox		_ _ _ X
<u>File E</u> dit <u>V</u> iew <u>G</u> o <u>B</u> ookmarks <u>T</u> ools <u>H</u> elp		
📀 📀 🙆 💭 🏠 💿 http://172.20.2.59/	* G	
🎐 Firefox Help 🎐 Firefox Support 🎐 Plug-in FAQ		
Wireless LAN Access Point Manager	nent	
Please enter your password:		
Log On !		
(Forget your password? - see the User's Guide for instructions.)		

Setting Authenticator Access Point Compex WP11B+

U	Wireless LAN Access Point - Mozilla Firefox 📃 🗖		
<u>F</u> ile <u>E</u> dit <u>V</u> iew <u>G</u> o <u>B</u> ookmarks	Tools <u>H</u> elp		
Sol Sol Color So	http://172.20.2.59/act_login		
💡 Firefox Help 🎐 Firefox Support 🎐 F	lug-in FAQ		
NetPassage COMPEX WP11B+ networks@work	NetWork Mode Setup NetWork Mode Access Point		
Mode Selection Management Port SNMP Setup IEEE 802.1X/ RADIUS	Note: NetMode switched will automatically reboot the system.		
System Identity Set System's Clock Firmware Upgrade Save or Reset Settings			
Reboot System			
Change Password			
	Message Window		
Get Technical Support About System			
Done			
۷	Wireless LAN Access Point - Moz	illa Firefox	_ 0 >
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<u>F</u> ile <u>E</u> dit <u>V</u> iew <u>G</u> o <u>B</u> ookmarks <u>T</u> ools <u>H</u> e	elp		÷.
📀 📀 🥥 🗅 🏠 🦳 http://1	72.20.2.59/act_login	Ŷ	G
🎐 Firefox Help 🎐 Firefox Support 🎐 Plug-in FAQ			
NetPassage	Ac	cess Point Setup	
networks@work	Access Point Name	WP11B+	
CONFIGURATION	ESSID	compex	
Mode Selection	Channel	5 💌	
Management Port	Tx Rate	Fully Auto	
IEEE 802.1X/ RADIUS	BTS Threshold	2346	
	Erag Threshold	2240	
SYSTEM TOOLS	Frag Inreshold	2346	
System Identity	Closed System	Disable 🔽	
Set System's Clock	Radio Off When Ethernet	Link Down Disable 💌	
Firmware Upgrade			
Save or Reset Settings			
Reboot System	Note: Changes ma	de will only take effect after rebooting.	
		Save Reboot Help	
HELP			
Get Technical Support	1	Access Control	
About System			<u> </u>
		Message Window	
	Current NetWork Mede is AP Me	do	
	Current Network Mode is Ar Mo	ue	

e		Wireless LAN Access Point - Mozilla Firefox	-8×
<u>F</u> ile <u>E</u> dit <u>V</u> iew <u>G</u> o <u>B</u> ookm	narks <u>T</u> ools <u>H</u> elp		
So So So 🖉	http://172.20.	2.59/act_login 🔹 🔇	
🎐 Firefox Help 🎐 Firefox Support	t 🎐 Plug-in FAQ		
NetPa COMPEX WP11 networks@work	assage LB+	Tx Rate Fully Auto RTS Threshold 2346 Frag Threshold 2346 Closed System Disable	
Mode Selection		Radio Off When Ethernet Link Down Disable	
SNMP Setup		Note: Changes made will only take effect after rebooting.	
SYSTEM TOOLS		Saus Babast Hele	
System Identity		Save Reboot Help	
Set System's Clock		Access Control	de la Sola la Sola
Save or Reset Settings		Access control	
Reboot System			
Change Password		Access Control Disable	6.23 6.23 6.
Logout		WEP encryption method Disable	
Get Technical Support About System		Apply WDS Configuration Help	· · · · · · · · · · · · · · · · · · ·
		Message Window	
		Current NetWork Mode is AP Mode	
Done	1		

e	Wireless LAN Access Point - Mozilla Firefox	_8×
<u>F</u> ile <u>E</u> dit <u>V</u> iew <u>G</u> o <u>B</u> ookmarks <u>T</u> ool	Is <u>H</u> elp	
S S S S S S S S S S S S S S S S S S S	http://172.20.2.59/act_login	
🞐 Firefox Help 🎐 Firefox Support 🎐 Plug-in	FAQ	
NetPassage	Management Port Setup	
networks@work	IP Address 172 .20 .2 .59	
CONFIGURATION	Network Mask 255 255 192	
Mode Selection	Management Gateway In 172 20 2	
Management Port	DIICD Start ID Address	
IEEE 802.1X/ RADIUS	DHCP Staft IP Address 172 .20 .2 .29	
	DHCP End IP Address 172 . 20 . 2 . 40	
SYSTEM TOOLS	DHCP Gateway IP Address 172 . 20 . 2 . 2	
System Identity	☐ Always use these DNS servers:	
Set System's Clock	Primary DNS IP Address 172 .16 .30 .7	
Save or Reset Settings	Secondary DNS IP Address 0 .0 .0 .0	
Reboot System	DHCP Server	
Change Password		
Logout		
	Note: Changes made will only take effect after rebooting.	
Get Technical Support		
About System	SaveRebootHelp	ſ
	Mossaga Window	
	Current NotWork Made is AP Mode	
	Current Metwork Mode is Ar Mode	
Done		

Pie get Yes Qe Bookmarks Tots Help Intpr/IT2.20.259/act_login Intpr/IT2.20.259/act_login Intpr/IT2.20.259/act_login Intpr/IT2.20.259/act_login Intpr/IT2.20.259/act_login Intpr/IT2.20.259/act_login Intpr/IT2.20.259/act_login Intpr/IT2.20.259/act_login Interview Interview Intpr/IT2.20.259/act_login Interview In	e	Wireless LAN Access Point - Mozilla Firefox	_ 6 ×
Image: Secondary RADIUS Server IP Image: Secondary RADIUS Secondary RADIUS Seconds) Image: Secondary RADI	<u>F</u> ile <u>E</u> dit <u>V</u> iew <u>G</u> o <u>B</u> ookmarks <u>T</u> ools	Help	•*• •••
Prefox Help Pirefox Support Pug_in FAQ IEEE 802.1X/RADIUS Setup NetPassage WP11B+ MAC Authentication Disable I MAC Authentication Note Tests to the setup MAC Authentication Disable I MAC Authentication Note: Setup Note: Setup Note: Setup Note: Changes made will only take effect after rebooting. Save Reboot Help MetWork Mode is AP Mode	🚱 📀 🧿 🔵 🏠 🦳 ht	p://172.20.2.59/act_login	* G
Suppose NetPassage NetWorks@vork Network Mode is AP Mode	💡 Firefox Help 🎐 Firefox Support 🎐 Plug-in f	AQ	
Ministration Management East BURP Datus Ministration Ministration BURP Datus Ministration	NetPassage COMPEX WP11B+ networks@work	IEEE 802.1X/RA	ADIUS Setup
Authonization Fort porz System identity Shared Secret Key Set System is Clock Maximum Retransmissions Firmware Upgrade Maximum Retransmissions Seve or Reef Settings MD5 Authentication Retor System Disable I Change Password MD5 Authentication Logout Note: Changes made will only take effect after rebooting. Save Reboot Heip Message Window Current NetWork Mode is AP Mode Current NetWork Mode is AP Mode	Mode Selection Management Port SIMP Setup	802.1X Security Mode Primary RADIUS Server IP Secondary RADIUS Server IP Authentication Port	802.1x v 172.20.2.19 0.0.00 1812
Retort System Change Password Logout Get Technical Support About System MD5 Authentication Disable Mode State Mode is AP Mode	System Identity Set System's Clock Firmware Upgrade Save or Reset Settings	Authentication Fort Shared Secret Key Authorization Lifetime (seconds Maximum Retransmissions Transient Key Length	1012 1012
About System	Reboot System Change Password Logout	Note: Changes made will only	take effect after rebooting.
Message Window Current NetWork Mode is AP Mode	About System		Help
		Message Current NetWork Mode is AP Mode	Window

e		Wireless LAN Access Point - Mozilla Firefox	_8×
<u>F</u> ile <u>E</u> dit <u>V</u> iew	<u>G</u> o <u>B</u> ookmarks <u>T</u> ool	s <u>H</u> elp	
Solution (2)) 🔘 🏠 🦳	ttp://172.20.2.59/act_login	
🎐 Firefox Help 🎐 F	Firefox Support 🎐 Plug-in	FAQ	
COMPEX	NetPassage WP11B+	SNMP Setup	1
networks@work		SNMP State Enable	
CONFIG	GURATION	Read Password	
Mode Selection		Read Write Deserverd	
Management Port			
SNMP Setup			
IEEE 802.1X/ RADIU	<u>US</u>	Apply	
SVETT	M TOOLS		
Custom Identifie			
Set System's Clock			
Firmware Upgrade			
Save or Reset Settin	= nas		
Reboot System			
Change Password			
Logout			
	HELP		
Get Technical Supp	port		
About System			alle se da les
		Message Window	
		The current security mode is Enabled	
		EAP-MD5 authentication changed to Enabled	
		Parameters saved, please reboot the system	
		The current security mode is Enabled	
		rarameters saved, piease reboot the system	
Dane		I	
Done			

- Untuk menggunakan EAP-TLS, Supplicant Windows XP membutuhkan sertifikat public (root.der) dan sertifikat private client (cert-clt.p12)
- Sedangkan Server authentikasi menggunakan private key, sertifikat public dan private server (certsrv.pem) dan CA (cacert.pem)

Install ROOT Sertificate Public File : root.der

😂 DISK2-DATA (D:)		
File Edit View Favorites To	ols Help	
🚱 Back 🔹 🕥 🕤 🏂 🔎	Search 🎼 Folders	
Address 🥪 D:\		
Folders ×	Name 🔺	Size T
🕑 Desktop	BOOKS	Fi
🗉 📋 My Documents	Cisco Learning	Fi
🖃 😼 My Computer	Contraction Contractico Contra	Fi
🗉 冯 3½ Floppy (A:)	irmware prism	Fi
🗄 🥯 DISK2-SYSTM (C:)	hostap-utils-0.2.4	Fi
🖃 😥 DISK2-DATA (D:)	Master Book Again	Fi
🖽 🧰 BOOKS	My Documents	Fi
🖽 🚞 Cisco Learning	Picture	Fi
🖽 🚞 Download Transit	Transit	Fi
📄 firmware prism	Want to burn	Fi
표 🛅 hostap-utils-0.2.4	2 cert-clt	2 KB Pe
표 🚞 Master Book Again	Open	2 KB 56
🗷 🧰 My Documents	Install Certificate	
Dicture	Open With	
🖽 🧰 Transit	UltraEdit-32	
🖽 🛅 Want to burn		-
🗉 😥 DISK2-MSTR (E:)	Scan for viruses	
🖭 🧼 DISK2-DOWN (F:)	Add to archive	
🖽 🥯 SYSTEM (G:)	Compress and email	1
🖽 🚧 DATA (H:)	Compress to "root.rar" and email	1

Certificate Import Wizard



Welcome to the Certificate Import Wizard

This wizard helps you copy certificates, certificate trust lists, and certificate revocation lists from your disk to a certificate store.

A certificate, which is issued by a certification authority, is a confirmation of your identity and contains information used to protect data or to establish secure network connections. A certificate store is the system area where certificates are kept.

To continue, click Next.

Klik NEXT

< <u>B</u>ack

Next >

Cancel

Certificate Import Wizard	
Certificate Store Certificate stores are system areas where certificates are kept.	
Windows can automatically select a certificate store, or you can specify a location for Automatically select the certificate store based on the type of certificate	
Place all certificates in the following store Certificate store: Browse Browse	Klik NEXT
< <u>Back</u> <u>N</u> ext > Cancel	

Certificate Import Wizard

	You have successfully compl wizard. You have specified the follo	leted the Certificate Import
2	Certificate Store Selected Content	Automatically determined by t Certificate
		<u> </u>

1	You are about to install a certificate from a certification authority (CA) claiming to represent:
<u> </u>	KPLI-Jogja
	Windows cannot validate that the certificate is actually from "KPLI-Jogja". You should confirm its origin by contactin "KPLI-Jogja". The following number will assist you in this process:
	Thumbprint (sha1): EEC4E597 5E5BB74F 93F79933 87AEFA74 5BB57602
	Warning: If you install this root certificate, Windows will automatically trust any certificate issued by this CA. Installing a certificate with an unconfirmed thumbprint is a security risk. If you click "Yes" you acknowledge this risk.
	Do you want to install this certificate?
	<u>Yes</u> <u>N</u> o



KLIK KANAN Private Key Client File : cert-clt.p12



Klik NFXT

Certificate Import Wizard Welcome to the Certificate Import Wizard This wizard helps you copy certificates, certificate trust lists, and certificate revocation lists from your disk to a certificate store. A certificate, which is issued by a certification authority, is a confirmation of your identity and contains information used to protect data or to establish secure network connections. A certificate store is the system area where certificates are kept. To continue, click Next. < Back Next > Cancel

Specify the file you want to	o import.		
File name:			
D:\cert-clt.p12			Browse
Nieke, Mane Mane and and			E-II
Note: More than one certil	ricate can be stored i	in a single rile in the	rollowing rormats:
Personal Information Ex	change- PKCS #12 (.PFX,.P12)	
Cryptographic Message	Syntax Standard- Pl	KCS #7 Certificates ((.P7B)
Microsoft Serialized Cerl	tificate Store (.SST)		

Klik NEXT

Masukkan Kunci Private Client Lalu Klik NEXT

Certificate Import Wizard	×
Password	
To maintain security, the private key was protected with a password.	
Type the password for the private key.	
Password:	

 Enable strong private key protection. You will be prompted every time the private key is used by an application if you enable this option. Mark this key as exportable. This will allow you to back up or transport your loop at a lober time. 	
Keys at a later time.	
< <u>Back</u> <u>Next</u> > Cancel	

Certificate Store	
Certificate stores are	system areas where certificates are kept.
Windows can automa	tically select a certificate store, or you can specify a location for
Automatically s	elect the certificate store based on the type of certificate
O Place all certific	ates in the following store
Certificate stor	re:
	Browse

Certificate Import Wizard



Completing the Certificate Import Wizard

You have successfully completed the Certificate Import wizard.

You have specified the following settings:













My Network Places



Recycle Bin



Explorer



3500 printer assistant



2 ACD





ACDSec 5:0



Reader 5.0

🛃 start

((p) 2 XTNDConnecti Blue Manager

P



Download Accelera...

in What



my laptop



Network Stumbler



Shortcut to Bluetoot



Adobe







WINSGPG.



a ll a Wireless

👏 💟 健

🛃 Refresh network list

Set up a wireless network for a home or small office 2

Related Tasks

Network Tasks

 Learn about wireless. networking

Change the order of preferred networks

🎱 Change advanced settings

4 Winamp 5.01





Choose a wireless network

Click an item in the list below to connect to a wireless network in range or to get more information.

Attempting to 対 compex (()) authenticate nill. 😚 Security-enabled wireless network This network requires a network key. You are currently connected to this network. To disconnect from this network, click Disconnect below.

Disconnect

ms.net

💐 🔩 其 🏥 % 💟 🇞 7:05 AM

(()) Wireless Network Connection

Click here to process your logon information for the network. compex

🧤 josh@172.20... 👹 user cert - Paint

🔄 DISK2-DATA (....

((q)) Wireless Net...

The Root Certification Authority for KPLI-Jogja If this is the correct certificate, click	the server's certificate is:
this message again. Click CANCEL t	o drop connection.
1	~
3	View Server Certificate

General	Details	Certification Pa	ith					
<u>S</u> how:	<all></all>		~					
Field			Value					
E Se	rial numb Inature al	er Igorithm	02 md5RSA					
Valid from Valid to Subject Public key			jogja-linux@yahoogroups.com Tuesday, September 28, 2004 Wednesday, September 28, 2 josh@ugm.ac.id, Teknik Elektr RSA (1024 Bits) Server Authentication (1.3.6					
E = jog $CN = K$ $OU = T$ $O = Ga$ $L = Yog$ $S = D.1$ $C = ID$	ija-linux@ PLI-Jogja idjah Mac gyakarta (.Yogyaka)yahoogroups.co ktro.UGM la University arta	m					
		Ĩ	Edit Properties)				





Connect Wireles	s Network Connection
User name on certific	ate:
nightlogin	► 1
Friendly name:	
Issuer:	KPLIJogja
Expiration date:	9/28/2005 4:41:03 PM
	OK Cancel View Certificate



- Untuk menggunakan PEAP-MSCHAPv2, Supplicant Windows XP hanya membutuhkan sertifikat public root (root.der)
- Sedangkan Server authentikasi menggunakan private key, sertifikat public dan private server (cert-srv.pem) dan CA (cacert.pem)

Connect using:	Use Windows to configure my wireless network settings
BO2.11b Wireless LAN USB Card	Available networks:
This connection uses the following items:	To connect to, disconnect from, or find out more information about wireless networks in range, click the button below.
Client for Microsoft Networks	View Wireless Networks
Install Uninstall Properties Description Allows your computer to access resources on a Microsoft network.	Image: Compex (Automatic) Move up Image: Compex (Automatic) Image: Compex (Automatic) Image: Compex
 Show icon in notification area when connected Notify me when this connection has limited or no connectivity 	Learn about <u>setting up wireless network</u> Ad <u>v</u> anced

compex pro	perties		? 🛛	compex pro	perties		?
Association	Authentication	Connection		Association	Authentication	Connection	
Network <u>n</u> a Wireless This netw	ame (SSID): network key vork requires a ke	compex ey for the following:		Select this wireless Et	option to provide hernet networks. IEEE 802.1x auth	authenticated net	work access for network
Network <u>D</u> ata end	Authentication: cryption:	Open WEP		EAP <u>typ</u> e:	Protected EAP Protected EAP Smart Card or o	(PEAP) (PEAP) other Certificate	
Network	<u>k</u> ey: ietwork key:			Authent	icate as <u>c</u> ompute	er when computer i	nformation is available
Key inde <u>;</u> Ime k	(advanced); ey is provided for	1 🔅 r me automatically		Authent unavaila	icate as guest wł able	hen user or compul	er information is
This is a access	a <u>computer-to-cor</u> points are not use	nputer (ad hoc) network; wir ed	ireless				
		ОК	Cancel			10	Cancel

hen connecting:	
Connect to these servers: Trusted Root Certification Authorities: http://www.valicert.com/ IPS SERVIDORES KPLI-Jogja Microsoft Root Authority Microsoft Root Certificate Authority NetLock Expressz (Class C) Tanusitvanykiado NetLock Kozjegyzoi (Class A) Tanusitvanykiado Do not prompt user to authorize new servers or trusted	
Trusted Root Certification Authorities: http://www.valicert.com/ IPS SERVIDORES KPLI-Jogja Microsoft Root Authority Microsoft Root Certificate Authority NetLock Expressz (Class C) Tanusitvanykiado NetLock Kozjegyzoi (Class A) Tanusitvanykiado Do not grompt user to authorize new servers or trusted	
Trusted Root Certification Authorities: http://www.valicert.com/ IPS SERVIDORES KPLI-Jogja Microsoft Root Authority Microsoft Root Certificate Authority NetLock Expressz (Class C) Tanusitvanykiado NetLock Kozjegyzoi (Class A) Tanusitvanykiado Do not grompt user to authorize new servers or trusted	7
http://www.valicert.com/ IPS SERVIDORES KPLI-Jogja Microsoft Root Authority Microsoft Root Certificate Authority NetLock Expressz (Class C) Tanusitvanykiado NetLock Kozjegyzoi (Class A) Tanusitvanykiado Do not prompt user to authorize new servers or trusted	
IPS SERVIDORES KPLI-Jogja Microsoft Root Authority Microsoft Root Certificate Authority NetLock Expressz (Class C) Tanusitvanykiado NetLock Kozjegyzoi (Class A) Tanusitvanykiado Const prompt user to authorize new servers or trusted	~
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NetLock Kozjegyzoi (Class A) Tanusitvanykiado Do not prompt user to authorize new servers or trusted	
Do not prompt user to authorize new servers or trusted	~
Do not prompt user to authorize new servers or trusted	_
certification authorities.	
ecured password (EAP-MSCHAP v2) 🛛 🛛 🖌 📿 🔤 🖉	э
Enable East Reconnect	
OK Cancel	el

EAP MSC	HAPv2 Prop	erties		
When co	nnecting:			
D Au pa:	omatically use r sword (and don	ny Windo nain if any	ws logon na y).	ame and
	100			

The Root Certi KPLI	fication Authority for the server's certificate is:
If this is the co this message a	rrect certificate, click OK to connect and you will not see gain,Click CANCEL to drop connection.

Enter Credentials	×
User name:	
Logon domain:	
OK Cancel	



Setting Client selesai..

Berikut ini hasil debugging radiusd :

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Session Edit View Bookmarks Settings Help

```
Wed Sep 29 07:08:41 2004 : Debug: Finished request 20
Wed Sep 29 07:08:41 2004 : Debug: Going to the next request
Wed Sep 29 07:08:41 2004 : Debug: Waking up in 6 seconds...
rad recv: Access-Request packet from host 172.20.2.59:1024, id=45, length=190
        User-Name = "nightlogin"
        NAS-IP-Address = 172.20.2.59
        NAS-Port = 1
        Called-Station-Id = "00-80-48-2B-7A-1A:compex"
        Calling-Station-Id = "00-02-6F-33-7C-07"
        Service-Type = Framed-User
        Framed-MTU = 1400
        NAS-Port-Type = Wireless-802.11
        NAS-Identifier = "COMPEX WP11B+"
        Connect-Info = "CONNECT 11Mbps 802.11b"
        EAP-Message = 0x021300060d00
        State = 0x9724a1a411dfc02a34128b8b7e10d282
        Message-Authenticator = 0x6e349a9f7baed1dae205b0f397cf060f
Wed Sep 29 07:08:45 2004 : Debug:
                                    Processing the authorize section of radiusd.conf
Wed Sep 29 07:08:45 2004 : Debug: modcall: entering group authorize for request 21
                                    modsingle[authorize]: calling preprocess (rlm preprocess) for request 21
Wed Sep 29 07:08:45 2004 : Debug:
Wed Sep 29 07:08:45 2004 : Debug:
                                    modsingle[authorize]: returned from preprocess (rlm preprocess) for request 21
                                    modcall[authorize]: module "preprocess" returns ok for request 21
Wed Sep 29 07:08:45 2004 : Debug:
Wed Sep 29 07:08:45 2004 : Debug:
                                    modsingle[authorize]: calling chap (rlm chap) for request 21
Wed Sep 29 07:08:45 2004 : Debug:
                                    modsingle[authorize]: returned from chap (rlm chap) for request 21
                                    modcall[authorize]: module "chap" returns noop for request 21
Wed Sep 29 07:08:45 2004 : Debug:
                                    modsingle[authorize]: calling mschap (rlm mschap) for request 21
Wed Sep 29 07:08:45 2004 : Debug:
Wed Sep 29 07:08:45 2004 : Debug:
                                    modsingle[authorize]: returned from mschap (rlm mschap) for request 21
                                    modcall[authorize]: module "mschap" returns noop for request 21
Wed Sep 29 07:08:45 2004 : Debug:
                                    modsingle[authorize]: calling suffix (rlm realm) for request 21
Wed Sep 29 07:08:45 2004 : Debug:
Wed Sep 29 07:08:45 2004 : Debug:
                                      rlm realm: No '@' in User-Name = "nightlogin", looking up realm NULL
                                      rlm realm: No such realm "NULL"
Wed Sep 29 07:08:45 2004 : Debug:
Wed Sep 29 07:08:45 2004 : Debug:
                                    modsingle[authorize]: returned from suffix (rlm realm) for request 21
                                    modcall[authorize]: module "suffix" returns noop for request 21
Wed Sep 29 07:08:45 2004 : Debug:
Wed Sep 29 07:08:45 2004 : Debug:
                                    modsingle[authorize]: calling sql (rlm sql) for request 21
Wed Sep 29 07:08:45 2004 : Debug: radius xlat: 'nightlogin'
    Shell
             Shell No. 2
~6J
```

~6J

root@lognight.te.ugm.ac.id: /usr/local/radius/etc/raddb - Shell No. 2 - Konsole

- 0 ×

Session Edit View Bookmarks Settings Help

```
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Wed Sep 29 07:05:19 2004 : Info: rlm eap tls: Length Included
                                    eaptls_verify returned 11
Wed Sep 29 07:05:19 2004 : Debug:
Wed Sep 29 07:05:19 2004 : Debug:
                                    rlm eap tls: <<< TLS 1.0 Handshake [length 030a], Certificate
Wed Sep 29 07:05:19 2004 : Info: chain-depth=1,
Wed Sep 29 07:05:19 2004 : Info: error=0
Wed Sep 29 07:05:19 2004 : Info: --> User-Name = nightlogin
Wed Sep 29 07:05:19 2004 : Info: --> BUF-Name = KPLI-Jogja
Wed Sep 29 07:05:19 2004 : Info: --> subject = /C=ID/ST=D.I.Yogyakarta/L=Yogyakarta/O=Gadjah Mada University/OU=Teknik.
Elektro.UGM/CN=KPLI-Jogja/emailAddress=jogja-linux@yahoogroups.com
Wed Sep 29 07:05:19 2004 : Info: --> issuer = /C=ID/ST=D.I.Yogyakarta/L=Yogyakarta/O=Gadjah Mada University/OU=Teknik.
Elektro.UGM/CN=KPLI-Jogja/emailAddress=jogja-linux@yahoogroups.com
Wed Sep 29 07:05:19 2004 : Info: --> verify return:1
Wed Sep 29 07:05:19 2004 : Info: chain-depth=0,
Wed Sep 29 07:05:19 2004 : Info: error=0
Wed Sep 29 07:05:19 2004 : Info: --> User-Name = nightlogin
Wed Sep 29 07:05:19 2004 : Info: --> BUF-Name = nightlogin
Wed Sep 29 07:05:19 2004 : Info: --> subject = /C=ID/ST=D.I.Yogyakarta/L=Yogyakarta/O=Gadjah Mada University/OU=Teknik.
Elektro.UGM/CN=nightlogin/emailAddress=nightlogin@gmail.com
Wed Sep 29 07:05:19 2004 : Info: --> issuer = /C=ID/ST=D.I.Yoqyakarta/L=Yoqyakarta/O=Gadjah Mada University/OU=Teknik.
Elektro.UGM/CN=KPLI-Jogja/emailAddress=jogja-linux@yahoogroups.com
Wed Sep 29 07:05:19 2004 : Info: --> verify return:1
                                     TLS accept: SSLv3 read client certificate A
Wed Sep 29 07:05:19 2004 : Info:
Wed Sep 29 07:05:19 2004 : Debug:
                                    rlm eap tls: <<< TLS 1.0 Handshake [length 0086], ClientKeyExchange
                                    TLS accept: SSLv3 read client key exchange A
Wed Sep 29 07:05:19 2004 : Info:
                                    rlm eap tls: <<< TLS 1.0 Handshake [length 0086], CertificateVerify,
Wed Sep 29 07:05:19 2004 : Debug:
                                    TLS accept: SSLv3 read certificate verify A
Wed Sep 29 07:05:19 2004 : Info:
Wed Sep 29 07:05:19 2004 : Debug:
                                    rlm eap tls: <<< TLS 1.0 ChangeCipherSpec [length 0001]</pre>
                                    rlm eap tls: <<< TLS 1.0 Handshake [length 0010], Finished
Wed Sep 29 07:05:19 2004 : Debug:
Wed Sep 29 07:05:19 2004 : Info:
                                     TLS accept: SSLv3 read finished A
Wed Sep 29 07:05:19 2004 : Debug:
                                    rlm eap tls: >>> TLS 1.0 ChangeCipherSpec [length 0001]
Wed Sep 29 07:05:19 2004 : Info:
                                     TLS accept: SSLv3 write change cipher spec A
Wed Sep 29 07:05:19 2004 : Debug:
                                    rlm eap tls: >>> TLS 1.0 Handshake [length 0010], Finished
                                     TLS accept: SSLv3 write finished A
Wed Sep 29 07:05:19 2004 : Info:
Wed Sep 29 07:05:19 2004 : Info:
                                     TLS accept: SSLv3 flush data
                                                                                                                        •
                                     (other): SSL negotiation finished successfully
Wed Sep 29 07:05:19 2004 : Info:
    Shell
             Shell No. 2
```

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Session Edit View Bookmarks Settings Help

rlm eap: processing type tls Wed Sep 29 07:08:45 2004 : Debug: Wed Sep 29 07:08:45 2004 : Debug: rlm eap tls: Authenticate Wed Sep 29 07:08:45 2004 : Debug: rlm eap_tls: processing TLS Wed Sep 29 07:08:45 2004 : Info: rlm eap tls: Received EAP-TLS ACK message Wed Sep 29 07:08:45 2004 : Debug: rlm eap tls: ack handshake is finished Wed Sep 29 07:08:45 2004 : Debug: eaptls verify returned 3 Wed Sep 29 07:08:45 2004 : Debug: eaptls process returned 3 Wed Sep 29 07:08:45 2004 : Debug: rlm eap: Freeing handler Wed Sep 29 07:08:45 2004 : Debug: modsingle[authenticate]: returned from eap (rlm eap) for request 21 Wed Sep 29 07:08:45 2004 : Debug: modcall[authenticate]: module "eap" returns ok for request 21 Wed Sep 29 07:08:45 2004 : Debug: modcall: group authenticate returns ok for reguest 21 Wed Sep 29 07:08:45 2004 : Debug: Processing the post-auth section of radiusd.conf Wed Sep 29 07:08:45 2004 : Debug: modcall: entering group post-auth for request 21 Wed Sep 29 07:08:45 2004 : Debug: modsingle[post-auth]: calling sql (rlm sql) for request 21 Wed Sep 29 07:08:45 2004 : Debug: rlm sql (sql): Processing sql postauth Wed Sep 29 07:08:45 2004 : Debug: radius xlat: 'nightlogin' Wed Sep 29 07:08:45 2004 : Debug: rlm sql (sql): sql set user escaped user --> 'nightlogin' Wed Sep 29 07:08:45 2004 : Debug: radius xlat: 'INSERT into radpostauth (id, user, pass, reply, date) values ('', 'nig htlogin', 'Chap-Password', 'Access-Accept', NOW())' Wed Sep 29 07:08:45 2004 : Debug: radius xlat: '/usr/local/radius/var/log/radius/sqltrace.sql' Wed Sep 29 07:08:45 2004 : Debug: rlm sql (sql) in sql postauth: query is INSERT into radpostauth (id, user, pass, repl y, date) values ('', 'nightlogin', 'Chap-Password', 'Access-Accept', NOW()) Wed Sep 29 07:08:45 2004 : Debug: rlm_sql (sql): Reserving sql socket id: 1 Wed Sep 29 07:08:45 2004 : Debug: rlm sql mysql: query: INSERT into radpostauth (id, user, pass, reply, date) values ('', 'nightlogin', 'Chap-Password', 'Access-Accept', NOW()) Wed Sep 29 07:08:45 2004 : Debug: rlm sql (sql): Released sql socket id: 1 Wed Sep 29 07:08:45 2004 : Debug: modsingle[post-auth]: returned from sql (rlm sql) for request 21 modcall[post-auth]: module "sql" returns ok for request 21 Wed Sep 29 07:08:45 2004 : Debug: Wed Sep 29 07:08:45 2004 : Debug: modcall: group post-auth returns ok for request 21 Sending Access-Accept of id 45 to 172.20.2.59:1024 MS-MPPE-Recv-Key = 0xa08a4ecb71e05760a6362a2ac812334cf6f06ad3c841a5f4460c9c53c02fd902 MS-MPPE-Send-Key = 0xf84488b4b1416b9ac6a671c2eededd1e62dba3cd374be5f0f465c200fdf6ce0b EAP-Message = 0x03130004User-Name = "nightlogin"

Jika terdapat Error/Failed

1	root@lognight.te.ugm.ac.id: /usr/local/radius/etc/raddb - Shell No. 2 - Konsole	- 0 ×
	Session Edit View Bookmarks Settings Help	
ſ	Wed Sep 29 06:29:53 2004 : Info: chain-depth=0,	
	Wed Sep 29 06:29:53 2004 : Info: error=20	
	Wed Sep 29 06:29:53 2004 : Info:> User-Name = wayan	
	Wed Sep 29 06:29:53 2004 : Info:> BUF-Name = wayan	
	Wed Sep 29 06:29:53 2004 : Info:> subject = /C=ZZ/ST=Zorro Provice/L=KotaKU/0=DellLatitude/0U=testdoank/CN=wayan/	′ema
	ilAddress≕wayan@gmail.com	
	Wed Sep 29 06:29:53 2004 : Info:> issuer = /C=ZZ/ST=Zorro Provice/L=KotaKU/0=DellLatitude/0U=testdoank/CN=ZorroC	llie
	nt/emailAddress=test@zorro.com	
	Wed Sep 29 06:29:53 2004 : Info:> verify return:0	
	Wed Sep 29 06:29:53 2004 : Debug: rlm_eap_tls: >>> TLS 1.0 Alert [length 0002], fatal unknown_ca	
	Wed Sep 29 06:29:53 2004 : Error: TLS Alert write:fatal:unknown CA	
	Wed Sep 29 06:29:53 2004 : Error: TLS_accept:error in SSLv3 read client certificate B	
	4359:error:140890B2:SSL routines:SSL3_GET_CLIENT_CERTIFICATE:no certificate returned:s3_srvr.c:2009:	
	Wed Sep 29 06:29:53 2004 : Error: rlm_eap_tls: SSL_read failed in a system call (-1), TLS session fails.	
	Wed Sep 29 06:29:53 2004 : Debug: In SSL Handshake Phase	
	Wed Sep 29 06:29:53 2004 : Debug: In SSL Accept mode	
	Wed Sep 29 06:29:53 2004 : Debug: eaptls_process returned 13	
	Wed Sep 29 06:29:53 2004 : Debug: modsingle[authenticate]: returned from eap (rlm_eap) for request 8	
	Wed Sep 29 06:29:53 2004 : Debug: modcall[authenticate]: module "eap" returns handled for request 8	
	Wed Sep 29 06:29:53 2004 : Debug: modcall: group authenticate returns handled for request 8	
	Sending Access-Challenge of id 12 to 172.20.2.59:1024	
	EAP-Message = 0x010400110d80000000715030100020230	
	Message-Authenticator = 0x0000000000000000000000000000000000	
	State = 0x2alede188e2c15ad36bab94a38211aab	
	Wed Sep 29 06:29:53 2004 : Debug: Finished request 8	
	Wed Sep 29 06:29:53 2004 : Debug: Going to the next request	
	wed Sep 29 06:29:53 2004 : Debug: waking up in 6 seconds	
	rad_recv: Access-Request packet from host 1/2.20.2.59:1024, id=13, length=185	
	User-Name = "wayan"	
	NAS-IP-Address = 1/2.20.2.59	333
	$Called Station - Id = 000-80-48-2B - 7A - 1A; compex^{-1}$	
	Calling-Station-Id = 00-02-0F-33-7C-07	
	Service-Type = Framed-User	
	Framed-MTU = 1400	_
	😤 🔄 Shell 📲 Shell No. 2	

Jika terdapat Error/Failed

root@lognight.te.ugm.ac.id: /usr/loc	al/radius/etc/raddb - Shell No. 2 - Konsole 📃 🗆 🗶
Session Edit View Bookmarks Settings Help	
Wed Sep 29 06:29:53 2004 : Debug: Processing the auther	ticate section of radiusd.conf
Wed Sep 29 06:29:53 2004 : Debug: modcall: entering group	authenticate for request 9
Wed Sep 29 06:29:53 2004 : Debug: modsingle[authenticat	e]: calling eap (rlm_eap) for request 9
Wed Sep 29 06:29:53 2004 : Debug: rlm_eap: Request four	d, released from the list
Wed Sep 29 06:29:53 2004 : Debug: rlm_eap: EAP/tls	
Wed Sep 29 06:29:53 2004 : Debug: rlm_eap: processing 1	ype tls
Wed Sep 29 06:29:53 2004 : Debug: rlm_eap_tls: Authenti	cate
Wed Sep 29 06:29:53 2004 : Debug: rlm_eap_tls: process	ng TLS
Wed Sep 29 06:29:53 2004 : Info: rlm_eap_tls: Received EA	P-TLS ACK message
Wed Sep 29 06:29:53 2004 : Debug: rlm_eap_tls: ack aler	t
Wed Sep 29 06:29:53 2004 : Debug: eaptls_verify returne	d 4
Wed Sep 29 06:29:53 2004 : Debug: eaptls_process return	ed 4
Wed Sep 29 06:29:53 2004 : Debug: rlm_eap: Handler faile	d in EAP/tls
Wed Sep 29 06:29:53 2004 : Debug: rlm_eap: Failed in EA	P select
Wed Sep 29 06:29:53 2004 : Debug: modsingle[authenticat	e]: returned from eap (rlm_eap) for request 9
Wed Sep 29 06:29:53 2004 : Debug: modcall[authenticate]	: module "eap" returns invalid for request 9
Wed Sep 29 06:29:53 2004 : Debug: modcall: group authenti	cate returns invalid for request 9
Wed Sep 29 06:29:53 2004 : Debug: auth: Failed to validat	e the user.
Wed Sep 29 06:29:53 2004 : Debug: Delaying request 9 for	1 seconds
Wed Sep 29 06:29:53 2004 : Debug: Finished request 9	
Wed Sep 29 06:29:53 2004 : Debug: Going to the next reque	st
Wed Sep 29 06:29:53 2004 : Debug: Waking up in 6 seconds.	
rad_recv: Access-Request packet from host 172.20.2.59:102	4, id=13, length=185
Sending Access-Reject of id 13 to 172.20.2.59:1024	
EAP-Message = 0x04040004	
Message-Authenticator = 0x0000000000000000000000000000000000	00000000
Wed Sep 29 06:29:53 2004 : Debug: Waking up in 6 seconds.	••
Wed Sep 29 06:29:59 2004 : Debug: Walking the entire	request list
Wed Sep 29 06:29:59 2004 : Debug: Cleaning up request 5 1	D 9 with timestamp 4159f3f1
Wed Sep 29 06:29:59 2004 : Debug: Cleaning up request 6 I	D 10 with timestamp 4159f3f1
Wed Sep 29 06:29:59 2004 : Debug: Cleaning up request 7 1	D 11 with timestamp 4159f3f1
Wed Sep 29 06:29:59 2004 : Debug: Cleaning up request 8 1	D 12 with timestamp 4159f3f1
Wed Sep 29 06:29:59 2004 : Debug: Cleaning up request 9 1	D 13 with timestamp 4159f3f1
Wed Sep 29 06:29:59 2004 : Debug: Nothing to do. Sleepir	g until we see a request. 📃 🔽
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🔏 🔳 Shell 📓 Shell No. 2	



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RADIUS Administration for WLAN - Konqueror

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Location Edit View Go Bookmarks Tools Settings Window Help

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Location: 👯 http://127.0.0.1/dialadmin/

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SAY /									Accounting	Report Ge	enerator
	ľ	Accounting Stop Delay	Download	Login Time	Logout Time	NAS IP Address	Start Connect Info	Stop Connect Info	Terminate Cause	Upload	User Name
Main Menu Home		0 seconds	7.91 KBs	2004-09-26 10:03:16	2004-09-26 10:08:22	192.168.168.10	CONNECT 11Mbps 802.11b	CONNECT 11Mbps 802.11b	Admin-Reboot	22.55 KBs	server
Accounting		0 seconds	2.70 KBs	2004-09-26 10:08:55	2004-09-26 10:17:04	192.168.168.10	CONNECT 11Mbps 802.11b	CONNECT 11Mbps 802.11b	Admin-Reboot	12.24 KBs	server
Statistics		0 seconds	0.64 MBs	2004-09-26 10:19:17	2004-09-26 10:56:44	192.168.168.10	CONNECT 11Mbps 802.11b	CONNECT 11Mbps 802.11b	Admin-Reboot	152.93 KBs	server
Online Users		0 seconds	8.71 KBs	2004-09-27 08:11:11	2004-09-27 08:19:27	192.168.168.10	CONNECT 11Mbps 802.11b	CONNECT 11Mbps 802.11b	Admin-Reboot	26.27 KBs	google
RADIUSClients		0 seconds	2.45 KBs	2004-09-27 08:19:59	2004-09-27 08:20:33	192.168.168.10	CONNECT 11Mbps 802.11b	CONNECT 11Mbps 802.11b	Admin-Reboot	2.38 KBs	google
Bad Users Failed Logins		0 seconds	2.45 KBs	2004-09-27 08:21:07	2004-09-27 08:21:13	192.168.168.10	CONNECT 11Mbps 802.11b	CONNECT 11Mbps 802.11b	Admin-Reboot	1.58 KBs	google
Find User		0 seconds	2.40 KBs	2004-09-27 12:36:11	2004-09-27 12:38:58	192.168.168.10	CONNECT 11Mbps 802.11b	CONNECT 11Mbps 802.11b	Admin-Reboot	22.18 KBs	google
Edit User		0 seconds	2.45 KBs	2004-09-27 15:08:31	2004-09-27 15:10:25	192.168.168.10	CONNECT 11Mbps 802.11b	CONNECT 11Mbps 802.11b	Admin-Reboot	12.92 KBs	google
New User		0 seconds	2.45 KBs	2004-09-27 15:08:31	2004-09-27 15:10:25	192.168.168.10	CONNECT 11Mbps 802.11b	CONNECT 11Mbps 802.11b	Admin-Reboot	12.92 KBs	google
Show Groups		0 seconds	2.45 KBs	2004-09-27 22:19:31	2004-09-27 22:21:16	192.168.168.10	CONNECT 11Mbps 802.11b	CONNECT 11Mbps 802.11b	Admin-Reboot	11.28 KBs	google
Edit Group		0 seconds	7.42 KBs	2004-09-27 22:22:42	2004-09-27 22:24:46	192.168.168.10	CONNECT 11Mbps 802.11b	CONNECT 11Mbps 802.11b	Admin-Reboot	7.24 KBs	google
New Group		0 seconds	2.45 KBs	2004-09-27 22:24:49	2004-09-27 22:25:08	192.168.168.10	CONNECT 11Mbps 802.11b	CONNECT 11Mbps 802.11b	Admin-Reboot	7.41 KBs	google
Check Server	•	0 seconds	2.45 KBs	2004-09-27 22:25:38	2004-09-27 22:26:20	192.168.168.10	CONNECT 11Mbps 802.11b	CONNECT 11Mbps 802.11b	Admin-Reboot	4.40 KBs	google
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Online Users	Connection Duration												
RADIUSClients													
Bad Users	Server 1/2.16.1.1 (1/2.16.1.1)												
Failed Logins	Workstation 00-02-6F-30-DC-2D												
Find User	Upload not available												
Edit User ·	Download not available												
	Allowed Session user can login for 3 hours, 59 minutes, 6 seconds												
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		Account Status For The Last 7 Days					
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Main Menu	Online time	43 minutes, 22 seconds					
Home	Failed Logins	0					
Accounting	Upload	0.52 MBs					
Statistics	Download	5.00 MBs					
User Statistics	Average Time	5 minutes, 25 seconds					
	Average Upload	66.79 KBs					
	Average Download	0.62 MBs					
RADIUS Clients							
Bad Users	Personal Information						
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Find User	name N						
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RADIUS Clients	1	/Wireless-802.11	2004-10-06 21:07:30	2 minutes	-	10.18 KBs	3.61 KBs	172.16.1.1:1	-	00-02-6F-30-DC-2D	
Bad Users	2	/Wireless-802.11	2004-10-06 20:43:28	20 minutes	-	12.45 KBs	7.07 KBs	172.16.1.1:1	-	00-02-6F-30-DC-2D	
Failed Logins	3	/Wireless-802.11	2004-10-01	54 minutes, 17 seconds	-	259.68	78.68 KBs	172.16.1.1:1	Admin-Reboot	00-02-6F-33-7C-07	
Find User			15:16:26			KBs					
Edit User	4	/Wireless-802.11	2004-10-01 14:44:44	8 minutes, 41 seconds	-	3.02 KBs	5.61 KBs	172.16.1.1:1	Idle-Timeout	00-02-6F-30-DC-2D	
New User	5	/Wireless-802.11	2004-10-01 14:34:23	9 minutes, 4 seconds	-	19.41 KBs	18.81 KBs	172.16.1.1:2	Admin-Reboot	00-02-6F-30-DC-2D	
Show Groups	6	/Wireless-802.11	2004-10-01 09:56:19	58 minutes, 35 seconds	-	43.80 MBs	28.58 MBs	172.20.2.50:1	Admin-Reboot	00-02-6F-33-7C-07	
Edit Group ·	7	/Wireless-802.11	2004-10-01 09:38:43	13 minutes, 29 seconds	-	43.14 MBs	8.60 MBs	172.20.2.50:1	Admin-Reboot	00-02-6F-33-7C-07	
New Group	8	/Wireless-802.11	2004-10-01 09:13:35	24 minutes, 58 seconds	-	34.30 KBs	103.79 KBs	172.20.2.50:1	Admin-Reboot	00-02-6F-33-7C-07	
Check Server			Page Total	3 hours, 11 minutes, 4 seconds		87.27 MBs	37.40 MBs				
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Implementasi 802.1x EAP-TLS dan PEAP MSCHAPv2

> by Josua M Sinambela Email : josh at gadjahmada edu Okt 2004 jogja-wireless@yahoogroups.com