PfSense HOTSPOT Installation

Hello Fellas ;

Hotspot kurulumunun nasıl yapılacağını inceliyor olacağız. In this section we'll talk about hotspot installation on our PfSense's Firewall.

This article and workshop example based on Mr. SAMET YILMAZ's works.You can find the original text and application examples by visiting <u>http://sametyilmaz.com.tr/pfsense-ghost-hot-spot-kurulumu-ve-ilk-ayarlar.html</u>

Alright ,of course you can ask yourself if there is an existing text why do i need to spend my time for this article. The reason is lots of links under the URL 's expired and installation take lots of time and for newbies who new in command screen video lesson make things easily understandable

With this short briefing lets have a look at what we need ;

- MySQL Server Installation
- MySQL database and user establishing
- Php Components Installation
- Database Configuration and copying Ghost to PfSense Public folder
- Squid, Freeradius 2 Installation and settings
- Captive Portal installaiton and establishing a connecting with Freeradius2
- Handshaking FreeRadius2 and MYSQL Server
- Ghost first settings

Installation Requirements ;

1-) PfSense version must be "2.1.3-RELEASE-i386-FreeBSD8.3" to grt new version you can check http://files.uk.pfsense.org/mirror/downloads/old/

- 2-) Putty application for consol connection to our PfSense machine
- 3-) Winscap application to monitorising files on PfSense machine

Proper PfSense and connection with Puty done

Lets get started ;

1-) Mysql installation

pkg_add -r http://ftp-archive.freebsd.org/pub/FreeBSD-Archive/old-releases/i386/8.3-RELEASE/packages/databases/mysql-server-5.5.21.tbz

/usr/local/bin/mysql_install_db --basedir=/usr/local

2-) With this command line we'll give proper writing permission to MySQL indexs

chmod 777 /var/db/mysql

3-) Changing Mysql-server file name for executing startup

mv /usr/local/etc/rc.d/mysql-server /usr/local/etc/rc.d/mysql-server.sh

4-) Executing WinSCP application and initialising a connection to our PfSense machine.On WinSCP click on Find Files and searching mysql-server.sh when it's done right click on it then edit

📮 pfsense 💣 Yeni Oturum								
📔 Belgelerim 🔹 🚰 🛐 📗		â 2 %	🛛 🛺 rc.d		• 🚰 😨 🛛 🔶 • 🕴	2 🖸 🏠 🎜	😭 Dosyaları B	ulun 😤
👔 Yükleyin 🎲 📝 Düzenleyin 🗙	🚮 🕞 Özellikler 📔		🛛 🙀 İndirin		📝 Düzenleyin 🗙 🛃 🕞 Öz	ellikler 📴 🕞	+ - V	
C:\Users\user\Documents			/usr/local/e	tc/rc.o	ł			
Ad Uzantı Boyut	Тір	Değişiklik	Ad Uz	zantı	Boyut Değişik	lik	İzinler	Sahip
La Müziğim Resimlerim Videolarım Opfault.rdp 1.984 B desktop.ini 402 B	Üst klasör Dosya klasörü Dosya klasörü Dosya klasörü Uzak Masaüstü Ba Yapılandırma ayar	09.12.2014 09:02:14 24.09.2014 09:41:04 24.09.2014 09:41:04 24.09.2014 09:41:04 09.12.2014 09:04:38 14.10.2014 09:05:42		A A I I I I I I I I I I I I I I I I I I	16.12.2 çın tüzeni vin dirin F5 dirin ve Silin F6 oğaltın Shift+F5 uraya Taşıyın Shift+F6 ilin F8 eniden adlandırın F2 izel Komutlar → tzellikler F9	014 15:27:42 012 22:01:51	гwxr-хг-х r-хг-хг-х	root

Find this line.

: \${mysql_enable="NO"}

Change like this

#: \${mysql_enable="YES"}

🔏 /usr/local/etc/rc.d/mysql-server.sh - pfsense - Düzenleyici - WinSCP	
🖬 🖻 🕆 🛍 🗶 a 🆻 🥙 🏙 🍓 🛤 🖷 Encoding 🆓 🕜	
<pre># set it to "YES" to enable MySQL. # mysql_limits (bool): Set to "No" by default. # set it to yes to run `limits -e -u mysql` just before mysql starts. # mysql_dbdir (str): Default to "/var/db/mysql" Base database directory. # mysql_pidfile (str): Custum PID file path and name. # mysql_args (str): Custom additional arguments to be passed # mysql_args (str): Custom additional arguments to be passed # mysql_safe (default empty).</pre>	^
. /etc/rc.subr name="mysql" rcvar=mysql_enable load_rc_config \$name	
: \${mysql_enable="YES <mark>"}</mark> : \${mysql_limits="NO"} : \${mysql_dbdir="/var/db/mysql"}	
<pre>mysql_user="mysql" mysql_limits_args="-e -U \${mysql_user}" pidfile=\${mysql_pidfile:-"\${mysql_dbdir}/`/bin/hostname`.pid"} command="/usr/sbin/daemon" command_args="-c -f /usr/local/bin/mysqld_safedefaults-extra-file=\${mysql_dbdir}/my.cnfuser=\${mysql_user}datadir= procname="/usr/local/libexec/mysqld" start_precmd="\${name}_portestart" start_postcmd="\${name}_poststart" mysql_install_db="/usr/local/bin/mysql_install_db" mysql_install_db="/usr/local/bin/mysql_install_db"</pre>	=\${mysql_d

Click on Save and uploaded.

5-) Enter the command line which is below and starting msql

/usr/local/etc/rc.d/mysql-server.sh start

6-) After this step restaring PfSense Machine

7-)Specify a password for MySQL Server root user. This part is important because we'll use this password for further installations. As you can see i choose "admin" as password i

/usr/local/bin/mysqladmin -u root password 'admin'

Restarting PfSense machine after this step

8-) Now we'll establish database and user that using by Ghost on MySQL server.Connecting to MySQL console use your password

mysql -u root –p

9-) Create a database with name Radius for host and Freeradius

CREATE DATABASE radius;

10-) Create a MySQL user for Ghost and Freeradius

CREATE USER 'radius'@'localhost';

11-) Specify a password for our user. In this example i'll set password as "admin" you can give another password than "admin"

SET PASSWORD FOR 'radius'@'localhost' = PASSWORD('admin');

12-) Give permission to user to reach Radius Database on MySQL server

GRANT ALL ON radius.* TO 'radius'@'localhost';

Restarting PfSense Machine

To connect MySQL database externally you have to set your 3306 port as PfSense LAN leg

13-) Entering MySQL with this command line and using our password "admin"

mysql –u root –p

14-)

GRANT ALL ON radius.* TO 'radius'@'%' IDENTIFIED BY 'admin';

MySQL Server and its Database installation which include below information are done

Database Name : Radius

Database User : Radius

User Password : admin

To reach command Line press Ctrl + C

15-) To TR ID confirmation and MySQL execute these commands respectively. The Important point is these scripts working succesfully for every PfSense server however the main point is we'll make a SOAP installation to TR ID confirmation if your PHP version that existing on PfSense different than SOAP some problem may occur in a situation like this check yor php version with php -v command and install proper SOAP version from Freebsd repo . Now on PfSense 2.1 working without any problem If you face any problem use pkg_info command to list package list then use pkg_delete -f command to remove SOAP.

Start with this package installation ;

pkg_add -rfi http://ftp-archive.freebsd.org/pub/FreeBSD-Archive/ports/i386/packages-8.3-release/All/php5-soap-5.3.10_1.tbz

16-) Using this commands

touch /etc/php_dynamodules/mysql

touch /etc/php_dynamodules/php-soap

Restarting PfSense Machine after this step.

17-) If you have a server that include MySQL Apache, IIS or MYSQL you can install Ghost and Radius' databases on them. (To Captive Portal files SOAP and MySQL extensiton steps must be done)

mkdir /usr/local/www/ghost

cd /usr/local/www/ghost

[#] fetch http://sametyilmaz.com.tr/ghost.tar

Alternatively+

fetch http://www.serdarbayram.net/download/ghost.tar

tar xvzf ghost.tar

18-) DataBase table that using by Freeradius and Ghost execute these commands.First ; import SQL file to database that we've created before use your specific password in this example i'll use "admin" as password

mysql –p –u radius radius < /usr/local/www/ghost/ghost.sql

19-) To connect Ghost Managing Console to database ; Information in MySQL connection file must be change according to SQL database and user

To do this we'll use Winscp and connect to pfSense machine

/usr/local/www/ghost/inc/db_settings.php

To search bar section write "db_settings.php" and open it in "Edit Mode" in this section we'll change user name as Radius (in my example i've choose Radius as a user name you can give a different name) and it's password as "admin"



Alright Fellas SSH part is done.

Enter the PfSense Interface then System -> Packages and install these packages respectively

1.Freeradius2

2.Squid

System: Package Manager

Name	Category	Version	Description	
freeradius2	System	2.1.12_1/2.2.5_3 pkg v1.6.10	A free implementation of the RADIUS protocol. Support: MySQL, PostgreSQL, LDAP, Kerberos FreeRADIUS and FreeRADIUS2 settings are not compatible so don't use them together or try to update On pfSense docs there is a how-to which could help you on porting users. Package info	
sauid	Network	2.7.9 pkg v.4.3.4	High performance web proxy cache.	0

20-) When the installation is done we'll configrate Captive Portal settings

click on Services→ Captiveportal then click on + sign

Zone	Interfaces	Number	Description	
Zone	Internaces	of users	Description	

Zone Identification editing

Services: Captive portal: Edit Zones

Zone name	💊 captiveportal	
	Zone name. Can only contain letters, digits, and underscores (_).	
Description	Notspot test	
	You may enter a description here for your reference (not parsed).	

We'll enable Captive Portal as below

After Authentication Redirection URL : In this section you can add a site to redirecting our clients .Save the settings.

Services: Captive portal: captiveportal

	✓ Enable captive portal
Interfaces	WAN LAN Select the interface(s) to enable for captive portal.
Maximum concurrent connections	per client IP address (0 = no limit) This setting limits the number of concurrent connections to the captive portal HTTP(5) server. This does not set how many users can be logged in to the captive portal, but rather how many users can load the portal page or authenticate at the same time! Possible setting allowed is: minimum 4 connections per client IP address, with a total maximum of 100 connections.
Idle timeout	minutes Clients will be disconnected after this amount of inactivity. They may log in again immediately, though. Leave this field blank for no idle timeout.
Hard timeout	minutes Clients will be disconnected after this amount of time, regardless of activity. They may log in again immediately, though. Leave this field blank for no hard timeout (not recommended unless an idle timeout is set).
Pass-through credits allowed per MAC address	per client MAC address (0 or blank = none) This setting allows passing through the captive portal without authentication a limited number of times per MAC address. Once used up, the client can only log in with valid credentials until the waiting period specified below has expired. Recommended to set a hard timeout and/or idle timeout when using this for it to be effective.
Waiting period to restore pass-through credits	hours Clients will have their available pass-through credits restored to the original count after this amount of time since using the first one. This must be above 0 hours if pass-through credits are enabled.
Reset waiting period on attempted access	Enable waiting period reset on attempted access If enabled, the waiting period is reset to the original duration if access is attempted when all pass-through credits have already been exhausted.
Logout popup window	Enable logout popup window If enabled, a popup window will appear when clients are allowed through the captive portal. This allows clients to explicitly disconnect themselves before the idle or hard timeout occurs.
Pre-authentication redirect URL	Use this field to set \$PORTAL_REDIRURL\$ variable which can be accessed using your custom captive portal index.php page or error pages.
After authentication Redirection URL	http://www.serdarbayram.net If you provide a URL here, clients will be redirected to that URL instead of the one they initially tried to access after they've

D G C Z O I 7

21-) Now let's configurate our Proy Server. Click on Servers→Proxy Server change settings as below.

eneral Upstream Proxy	Cache Mgmt Access Control Traffic Mgmt Auth Settings Local Users
Proxy interface	LAN WAN loopback The interface(s) the proxy server will bind to.
Allow users on interface	If this field is checked, the users connected to the interface selected in the 'Proxy interface' field will be allowed to use the proxy, i.e., there will be no need to add the interface's subnet to the list of allowed subnets. This is just a shortcut.
Transparent proxy	If transparent mode is enabled, all requests for destination port 80 will be forwarded to the proxy server without any additional configuration necessary.
Bypass proxy for Private Address Space (RFC 1918) destination	Do not forward traffic to Private Address Space (RFC 1918) destination through the proxy server but directly through the firewall.
Bypass proxy for these source IPs	Do not forward traffic from these source IPs, CIDR nets, hostnames, or aliases through the proxy server but directly through the firewall. Separate by semi-colons (;). [Applies only to transparent mode]
Bypass proxy for these destination IPs	Do not proxy traffic going to these destination IPs, CIDR nets, hostnames, or aliases, but let it pass directly through the firewall. Separate by semi-colons (;). [Applies only to transparent mode]
Enable logging	✓ This will enable the access log. Don't switch this on if you don't have much disk space left.
Log store directory	/var/squid/logs The directory where the log will be stored (note: do not end with a / mark)
Log rotate	Defines how many days of logfiles will be kept. Rotation is disabled if left empty.
Proxy port	N 3128 This is the port the proxy server will listen on.
ICP port	This is the port the Proxy Server will send and receive ICP queries to and from neighbor caches. Leave this blank if you don't want the proxy server to communicate with neighbor caches through ICP.
Visible hostname	Nocalhost This is the URL to be displayed in proxy server error messages.
Administrator email	sdmin@localhost This is the email address displayed in error messages to the users.
Language	English Select the language in which the proxy server will display error messages to users.
Disable X-Forward	If not set, Squid will include your system's IP address or name in the HTTP requests it forwards.
Disable VIA	

22-) So far so good Proxy settings is done so let's get Free Radius 2 and Captive Portal integration done.Click on **Services** →**Freeradius** and click on NAS/Clients then click on + button to add a client

? FreeRADIUS: Clients Users Settings EAP SQL Certificates LDAP XMLRPC Sync MACs NAS / Clients Interfaces View config **Client IP Client IP** Client Client Client **Require Message** Max Description Address Version Shortname Protocol Туре Authenticator Connections 1 Save

Client shortname : Give a name

Client share Secret: Give a password. In this example i've choose admin as password

FreeRADIUS: Clients: Edit

General Configuration	
Client IP Address	192.168.1.1 Enter the IP address of the RADIUS client. This is the IP of the NAS (switch, access point, firewall, router, etc.).
Client IP Version	IPv4 V
Client Shortname	Captiveportal Enter a short name for the client. This is generally the hostname of the NAS.
Client Shared Secret	Enter the shared secret of the RADIUS client here. This is the shared secret (password) which the NAS (switch or accesspoint) needs to communicate with the RADIUS server.
Miscellaneous Configurat	tion
Client Protocol	Enter the protocol the client uses. (Default: UDP)
Client Type	other Enter the NAS type of the client. This is used by checkrad.pl for simultaneous use checks. (Default: other)
Require Message Authenticator	No V RFC5080 requires Message-Authenticator in Access-Request, But older NAS (switches or accesspoints) do not include that (Default: no)
Max Connections	No. 16 Takes only effect if you use TCP as protocol. This is the mirror of "Max Requests Server" from "Settings" tab. (Default 16)
NAS Login	If your NAS supports it you can use SNMP or finger for simultaneous-use checks instead of (s)radutmp file and accounting Leave empty to choose (s)radutmp. (Default: empty)
NAS Password	If your NAS supports it you can use SNMP or finger for simultaneous-use checks instead of (s)radutmp file and accounting Leave empty to choose (s)radutmp. (Default: empty)
Description	Enter any description you like for this client.

Click on Save button to save

23-)Accounting and Authentication packages detection that sending by Captive Portal, click on Interface and create 2 interfaces like below



?

As an Interface Ip enter * .Set Port 1812 interface type as Authentication FreeRADIUS: Interfaces: Edit

Users MACs NAS / Clients Interfaces Settings EAP SQL Certificates LDAP View config XMLRPC Sync

Interface IP Address	*
	Enter the IP address (e.g. 192.168.100.1) of the listening interface. If you choose * then it means all interfaces. (Default *)
Port	N 1812
	Enter the port number of the listening interface. Different interface types need different ports.
	Authentication = 1812
	Accounting = 1813
	Status = 1816 IMPORTANT: For every interface type listening on the same IP address you need different ports.
Interface Type	Authentication V
	Enter the type of the listening interface. (Default: auth)
IP Version	IPv4 v
	Enter the IP version of the listening interface. (Default: IPv4)
Description	
	Optionally enter a description here for your reference.

As Interface IP enter * 1813 as port Interface type Accounting then click on Save FreeRADIUS: Interfaces: Edit

?

?

Users MACs NAS / Clients Interfaces Settings EAP SQL Certificates LDAP View config XMLRPC Sync

General Configuration
Interface IP Address
Enter the IP address (e.g. 192.168.100.1) of the listening interface. If you choose * then it means all interfaces. (Default: *)

Port	1813
	Enter the port number of the listening interface. Different interface types need different ports. You could use this as an example: Authentication = 1812
	Accounting = 1813
	Status = 1816
	IMPORTANT: For every interface type listening on the same IP address you need different ports.
Interface Type	Accounting
	Enter the type of the listening interface. (Default: auth)
IP Version	[IP ₁ /4 V]
	Enter the IP version of the listening interface. (Default: IPv4)
Description	
	Optionally enter a description here for your reference.

FreeRADIUS: Interfaces

Use

In * *

terface IP Address	Port	Interface Type	IP Version	Description	
	1812	auth	ipaddr		Le La
	1813	acct	ipaddr		Leu

Click on Save button.

24-) To complete Captive Portal and FreeRadius 2 integration click on Services →Captive Portal and configurate as below

	O No Authentication	
	O Local User Manager / Vouchers	
	Allow only users/groups with 'Captive portal login' privilege set	
	RADIUS Authentication	
	Radius Protocol 💿 pap	
	O CHAP_MD5	
	O MSCHAP/1	
	O MSCHAPV2	
	Primary Authentication Source	
	Primary RADIUS server	
	IP address 💊 192.168.1.1	
	Port No. 1812	cate agains
	Leave this field blank to use the default port (1812).	
	Shared secret Admin	
	Leave this field blank to not use a RADIUS shared secret (not recommended).	
	Secondary RADIUS server	
	ID address	
	If you have a second RADIUS server, you can activate it by entering its IP address here.	
	Port	

As Authentication Type choose Radius Authentication seçin and set Radius Protocol as PAP.Set Radius server infos like above.Choose IP address as PFSense server LAN interface ip address.Set as Authentication use 1812 or leave blank as default it connects 1812 automatically

Shared Secret : When we added NAS Client on Freeradius section we'll use "admin" as password.

Accounting Partition ;

Set details as below and choose 1813 as Accounting Portal.To send Account updates to Radius click on Start-Stop accounting.Click on Save then exit

send RADIUS accounting packets
If this is enabled, RADIUS accounting packets will be sent to the primary RADIUS server.
1813
Leave blank to use the default port (1813).
on accounting updates
stop/start accounting
⊖ interim update
☑ Reauthenticate connected users every minute
If reauthentication is enabled, Access-Requests will be sent to the RADIUS server for each user that is
logged in every minute. If an Access-Reject is received for a user, that user is disconnected from the captive portal immediately.
If this option is enabled, the captive portal will try to authenticate users by sending their MAC address as
the username and the password entered below to the RADIUS server.
WAN - 192.168.29.130 V
Choose the IP to use for calling station attribute.
Lice RADIUS Session-Timeout attributes
When this is enabled, clients will be disconnected after the amount of time retrieved from the RADIUS
Session-Timeout attribute.
default 🗸
If RADIUS type is set to Cisco, in Access-Requests the value of Calling-Station-Id will be set to the client's
IP address and the Called-Station-Id to the client's MAC address. Default behavior is Calling-Station-Id = client's MAC address and Called-Station-Id = pfSense's WAN IP address.
V Invest Acet Innut Octobs and Acet Output Octobs
When this is enabled, data counts for RADIUS accounting packets will be taken from the client perspective.
not the NAS. Acct-Input-Octets will represent download, and Acct-Output-Octets will represent upload.
Specify a NAS identifier to override the default value (hotspot.localdomain)
Specify a NAS identifier to override the default value (hotspot.localdomain)

Restarting Captive Portal and Freeradius services by click on **Status** \rightarrow **Services**

Status: Services

Service	Description	Status	
apinger	Gateway Monitoring Daemon	🔁 Running	CC 200
captiveportal	Captive Portal: captiveportal	🔁 Running	CC FOD
dnsmasq	DNS Forwarder	🖪 Running	CC C C
ntpd	NTP clock sync	🔼 Running	CC CO O
radiusd	FreeRADIUS Server	📮 Running	RG
squid	Proxy server Service	Running	S.m.

?

25-) As you can see services have been started succesfully .To testing this click on Services → Freeradius → Users section create a standard user and start a process from a client that on Captive Portal
 FreeRADIUS: Users: Edit

iers MACs N	IAS / Clients Interfaces Settings EAP SQL Certificates LDAP View config XMLRPC Sync
Seneral Configu	uration
Username	Serdar
	Enter the username. Whitespace is possible. If you do not want to use username/password but custom options then leave this field empty.
Password	
	Enter the password for this username. If you do not want to use username/password but custom options then leave this field empty
Password	Cleartext-Password V
encryption	Select the password encryption for this user. Default: Cleartext-Password
Enable One-Time-	
Password for this user	This enables the possibility to authenticate against an username and an one-time-password. The client to generate OTP can be installed on various mobile device plattforms like Android and more.
	IMPORTANT: You need to enabled mOTP first in FreeRADIUS => Settings (Default: unchecked)

Click on Internet Explorer a Captive Portal page welcome us.Fill the username and password section

← → @ http://192.168.1.1;8000/index.php?zone	=captiveportal&redirurl=http%3A%2Ff	🧟 hotspot.localdomain - FreeRA	O 192.168.1.1	× n	* ¤
	pfSense captive portal Welcome to the pf Username: serde Password: ••••	Sense Captive Portal!			

26-) Lets get Freeradius and MySQL server integration done. Click on **Services→FreeRadius→SQL** section and set as below

2

FreeRADIUS: SQL

nable SQL Database- Sei	ver 1
inable SQL Support	Enable this if you like to connect freeRADIUS to a SQL database. (Default: unchecked) You must enable at least one of the following options: Authorization, Accounting, Session, Post-Auth.
Enable SQL Authorization	Enable Finable Finable Finable this if usernames and passwords are stored on a SQL database. SQL support must be enabled for this to work. (Default: Disable)
Enable SQL Accounting	Enable Enable Enable this if accounting packets should be logged to a SQL database. SQL support must be enabled for this to work. (Default: Disable)
Enable SQL Session	Enable Enable this to use the "rlm_sql" module (fast) to check for simultaneous connections instead of "radutmp" (slow). SQL support must be enabled for this to work. (Default: Disable)
Enable SQL Post-Auth	Enable Enable this if you like to store post-authentication data on a SQL database. SQL support must be enabled for this to work. (Default: Disable)

Database Type	MySQL V
	Choose the database type. (Default: mysql)
Server IP Address	Nocalhost
	Enter the IP address of the database server (Default: localhost)
Server Port Address	3306
	Enter the port address of the database server (Default: 3306)
Database Username	radius
	Enter the username of the database server (Default: radius)
Database Password	
	Enter the password of the database server (Default: radpass)
Database Table	N radius
Configuration	Choose database table configuration: (Default: radius)
	For all except Oracle choose: radius
	For Oracle change and paste the following line according your environment:
	(DESCRIPTION=(ADDRESS=(PROTOCOL=TCP)(HOST=localhost)(PORT=1521))(CONNECT_DATA=

On the below side of page MySQL server infos and databases infos required. In this example i've configurated as below and you can change it as you wish.

Server IP Address: localhost Server Port Address (MySQL Default Port): 3306 Database Username : Radius Database Password : admin Database Table Congiuration : Radius

SQL Socket Maximum Queries	0 If you have issues with SQL sockets lasting too long, you can limit the number of queries performed over one socket. After X queries, the socket will be closed. Use 0 for no limit. (Default: 0)
Read Clients from Database	No V Set to yes to read RADIUS clients from the database ('nas' table). Clients will only be read on server startup. (Default: yes)
RADIUS Client Table	Nas Choose the table to keep RADIUS client info. (Default: nas)

Enable Redundant SQL Database Support

Read Client from Database default as Yes change it as No

Save settings and click on **Status** → **System Logs** menu and monitorise SQL connection.Log records must be like this

Dec 16 14:58:18	radiusd[79147]: rlm_sql (sql): Driver rlm_sql_mysql (module rlm_sql_mysql) loaded and linked
Dec 16 14:58:18	radiusd[79147]: rlm_sql (sql): Attempting to connect to radius@localhost:3306/radius
Dec 16 14:58:18	radiusd[79147]: rlm_sql (sql): Attempting to connect rlm_sql_mysql #0
Dec 16 14:58:18	radiusd[79147]: rlm_sql_mysql: Starting connect to MySQL server for #0
Dec 16 14:58:18	radiusd[79147]: rlm_sql (sql): Connected new DB handle, #0
Dec 16 14:58:18	radiusd[79147]: rlm_sql (sql): Attempting to connect rlm_sql_mysql #1
Dec 16 14:58:18	radiusd[79147]: rlm_sql_mysql: Starting connect to MySQL server for #1
Dec 16 14:58:18	radiusd[79147]: rlm_sql (sql): Connected new DB handle, #1
Dec 16 14:58:18	radiusd[79147]: rlm_sql (sql): Attempting to connect rlm_sql_mysql #2
Dec 16 14:58:18	radiusd[79147]: rlm_sql_mysql: Starting connect to MySQL server for #2
Dec 16 14:58:18	radiusd[79147]: rlm_sql (sql): Connected new DB handle, #2
Dec 16 14:58:18	radiusd[79147]: rlm_sql (sql): Attempting to connect rlm_sql_mysql #3
Dec 16 14:58:18	radiusd[79147]: rlm_sql_mysql: Starting connect to MySQL server for #3
Dec 16 14:58:18	radiusd[79147]: rlm_sql (sql): Connected new DB handle, #3
Dec 16 14:58:18	radiusd[79147]: rlm_sql (sql): Attempting to connect rlm_sql_mysql #4
Dec 16 14:58:18	radiusd[79147]: rlm_sql_mysql: Starting connect to MySQL server for #4
Dec 16 14:58:18	radiusd[79147]: rlm_sql (sql): Connected new DB handle, #4
Dec 16 14:58:18	radiusd[79147]: Loaded virtual server <default></default>
Dec 16 14:58:18	radiusd[79198]: Ready to process requests.

Click on Status→ Services and be sure services running succesfully. Status: Services

Service	Description	Status	
apinger	Gateway Monitoring Daemon	[Running	CCLO
captiveportal	Captive Portal: captiveportal	🔁 Running	gggoi
dnsmasq	DNS Forwarder	🔁 Running	CCI
ntpd	NTP clock sync	🔁 Running	gg go i
radiusd	FreeRADIUS Server	🔁 Running	86
squid	Proxy server Service	🔁 Running	RA

27-) All services runnning succesfully.Now let's install Ghost Portal file for Captive Portal welcome screen Ghost Welcome Screen : http://www.sametyilmaz.com.tr/portal.rar

Alternative link :http://www.serdarbayram.net/download/portal.rar

From Services → Captive Portal editing it .



Portal page contents : Upload HTML file for the portal page here Authentication Error page contents : Upload error.html.Click on Save and done.

In portal.rar file that you have downloaded before find captiveportal-config.php and editing as you wish



28-) Captive-Portal → Filemanager section Services: Captive portal: captiveportal



pptiveportal-config.php 1 KB pptiveportal-jquery-1.11.0.min.js 94 KB pptiveportal-logo.png 60 KB ptiveportal-sms.php 4 KB ptiveportal-tc.php 3 KB	Name	Size	الخنا
ptiveportal-jquery-1.11.0.min.js 94 KB ptiveportal-logo.png 60 KB ptiveportal-sms.php 4 KB ptiveportal-tc.php 3 KB	captiveportal-config.php		1 KB
ptiveportal-logo.png 60 KB ptiveportal-sms.php 4 KB ptiveportal-tc.php 3 KB	captiveportal-jquery-1.11.0.min.js	9	94 КВ
ptiveportal-sms.php 4 KB	captiveportal-logo.png		50 КВ
ptiveportal-tc.php 3 KB	captiveportal-sms.php		4 КВ
	captiveportal-tc.php		з кв
DTAL 163 KB	TOTAL	16	ЗКВ

Any files that you upload here with the filename prefix of captiveportal- will be made available in the root directory of the captive portal HTTP(5) server. You may reference them directly from your portal page HTML code using relative paths. Example: you've uploaded an image with the name 'captiveportal-test.jpg' using the file manager. Then you can include it in your portal page like this:

<pre></pre>
0 0
In addition, you can also upload .php files for execution. You can pass the filename to your custom page from the initial page by using text similar to:
<pre>Acceptable usage policy</pre>
The total size limit for all files is 1.00 MB.

In Portal.rar file extract all files except index.html and error.html from this page and finish the process

Attp://19216811.3000/index.php?zone=captiveportal&r	edirurl=http%3A%2Ff 🔎 🛪 C 🧭 hotspot.localdomain - Services 🧭 192.168.1	11 ×	n ★ ¤
	S CHOST		
	a unusi		
	Giriş Yap		
	Kullanıcı Adınız		
	Şifreniz		
	Ginş Yap		
	Sms ile kayıt ol.		
	TC Jimfik ile kayıt ol.		
	İnternet erişimleriniz 5651 sayılı kanun gereğince kayıt altına alınmaktadır.		

As you can see in this picture Ghost page welcome us succesfully. If you want to change logo enter the Captive Portal Managing Screen and upload your own logo with .png extension. To removing Sms or TR ID sections open the index. html file and remove related fields.

How to Reach Ghost Managing Panel

From http://pfsenseipadresi/ghost you can reach the panel.If you've changed PFSense port you can reach the panel from http://pfsenseipadress:[port]/ghost

adresinden Ghost paneline ulaşabilirsiniz. Eğer PFSense'nin portunu değiştirdiyseniz http://pfsenseipadresi:[port]/ghost şeklinde erişebilirsiniz.

Ghost Default User Name and Password User Name: admin Password : ghost

X	GHOST Basic Radius Management Porta		
Kullanıcı Şifre	admin ••••• Gönder		
		Hakkinda	

Welcome screen will be like this and you can see the login user from "Online Users" section



Installation have been done suucessfully.Hope its helpful

Author

Serdar BAYRAM