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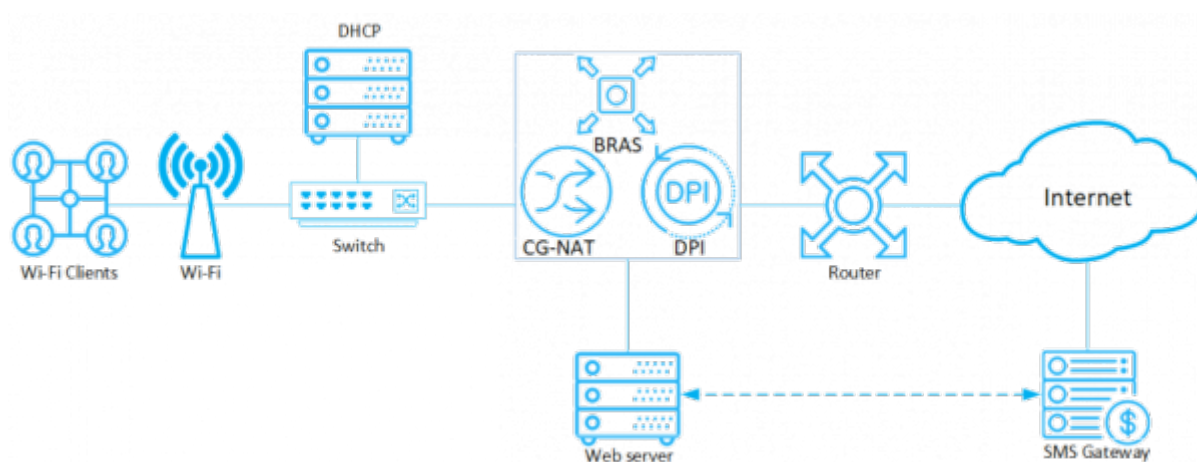
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Wi-Fi HotSpot (Captive Portal for Wi-Fi authorization)

Introduction

The module provides the feature to [authorize users by phone number in public Wi-Fi networks](#).

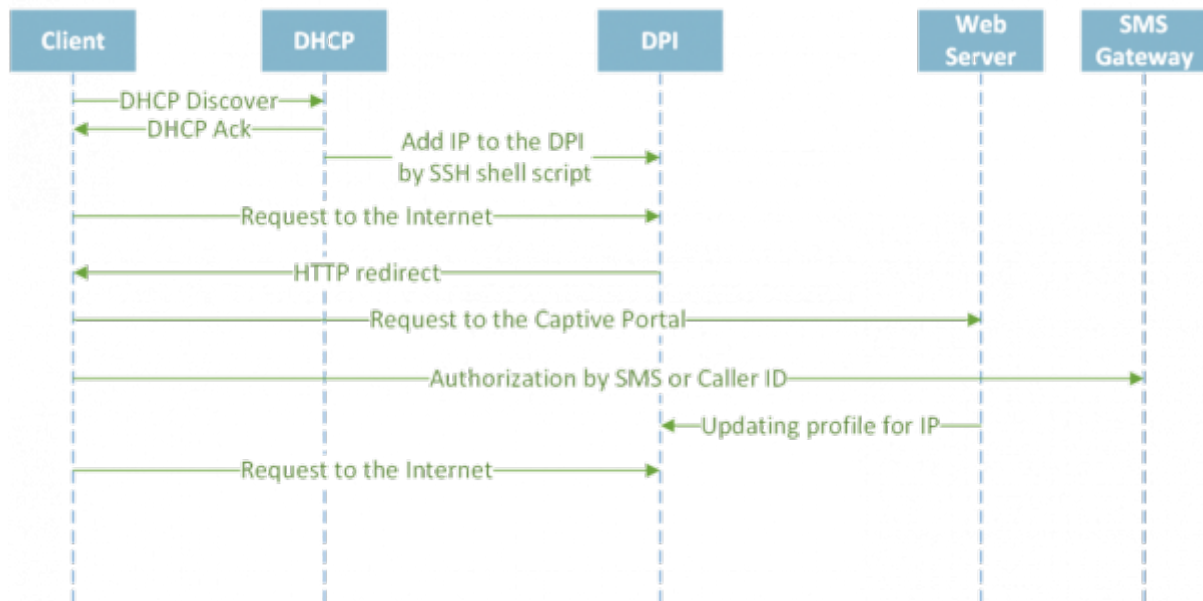
Architecture



Scenarios of use

When a subscriber connects to Wi-Fi, the router requests the DHCP server to obtain a new IP address. The server returns the addresses to the router and runs the shell-script, which activates the tariff with limited access and the “White List”. It makes sense to include in the white lists, for example, the site of the provider or organization providing public Wi-Fi.

Then the subscriber is redirected to the browser start page, where he needs to go through the authorization by phone number. The web server receives a successful authorization response from the SMS gateway and, using a shell-script, disables restrictions specified on the DPI and redirects the subscriber to the desired page.



Installation and Upgrade

Hardware Recommendations

In order to run the module you can use the following hardware or virtual machines matching the following characteristics:

1. CPU 2.5 GHz, 1 pcs
2. RAM 512 MB - 1 GB
3. HDD 20 GB - 50 GB
4. Operating system CentOS 7.x, CentOS 8.x, [VEOS](#), CentOS Stream 8.x, Oracle Linux Server 8.x, AlmaLinux 8.x
5. NIC ranging from 10 Mbps



Do not install the module on the same hardware running the DPI or the SSG DPI 2 management interface! Use a dedicated virtual machine instead.

Before installation

New Virtual Machine

1. Make sure the openssh-clients is installed, it is required to connect to the DPI
2. The rest of environment will be installed automatically

Old Virtual Machine

1. Make sure the openssh-clients is installed, it is required to connect to the DPI
2. If PHP version <7.1 is installed, uninstall the old one:

```
yum -y remove php*
```

The new version will be installed automatically during dpiui2 installation.

3. If MySQL is installed, uninstall it:

```
yum remove mysql mysql-server mysql-community-common
```

Also delete the MySQL directory:

```
mv /var/lib/mysql /var/lib/mysql_old_backup
```

During wifi_hotspot installation MariaDB 10.4+ will be installed

CentOS 6

Recommended operating system is CentOS 7+. If you need to install the module on CentOS 6, make sure that supervisor 3+ is installed. If you do not have the needed package, please install it using the following commands:

```
sudo wget https://vasexperts.ru/install/supervisor-3.0-1.gf.el6.noarch.rpm  
yum install supervisor-3.0-1.gf.el6.noarch.rpm
```

Installation



Before installing or upgrading, check your internet connection. Run scripts with root privilege or using sudo.



Attention: You should to disable selinux. To do this, set SELINUX = disabled in the /etc/selinux/config file and restart server.



Attention: If you've configured the virtual machine using [HotSpot Management](#) section before you install this module, all the needed tools and settings will be installed automatically.

To install, run the script:

```
#!/usr/bin/env bash  
  
info () {  
    echo -e " info:    $@" ;  
}
```

```

ok () {
    echo -e " done:    $@" ;
}

error () {
    echo -e " ERROR:  $@" ;
}

CENTOSRELEASE=`cat /etc/redhat-release`
SUBSTR=`echo $CENTOSRELEASE|cut -c1-22`
SUBSTR2=`echo $CENTOSRELEASE|cut -c1-26`

#Check OS version
CentOsVersion=0
if [ "$SUBSTR" = "CentOS Linux release 7" ]
    then
        CentOsVersion=70
elif [ "$SUBSTR2" == "CentOS release 6.5 (Final)" ]
    then
        CentOsVersion=65
elif [ "$SUBSTR2" == "CentOS release 6.4 (Final)" ]
    then
        CentOsVersion=64
else
    CentOsVersion=60
fi

#Configure repos
info "Configuring repos..."

rpm --import http://vasexperts.ru/centos/RPM-GPG-KEY-vasexperts.ru
rpm -Uvh http://vasexperts.ru/centos/6/x86_64/vasexperts-repo-1-0.noarch.rpm

MARIADB_REPO=/etc/yum.repos.d/mariadb.repo
if [ "$CentOsVersion" == 70 ]
then
    rpm -Uvh
https://dl.fedoraproject.org/pub/epel/epel-release-latest-7.noarch.rpm
    rpm -Uvh https://mirror.webtatic.com/yum/el7/webtatic-release.rpm
    echo "[mariadb]
name=MariaDB
baseurl=http://yum.mariadb.org/10.4/centos7-amd64
gpgkey=https://yum.mariadb.org/RPM-GPG-KEY-MariaDB
gpgcheck=1" > $MARIADB_REPO
else

    rpm -Uvh
https://dl.fedoraproject.org/pub/epel/epel-release-latest-6.noarch.rpm
    rpm -Uvh https://mirror.webtatic.com/yum/el6/latest.rpm

```

```

        MACHINE_TYPE=`uname -m`
        if [ ${MACHINE_TYPE} == 'x86_64' ]
        then

echo "[mariadb]
name=MariaDB
baseurl=http://yum.mariadb.org/10.4/centos6-amd64
gpgkey=https://yum.mariadb.org/RPM-GPG-KEY-MariaDB
gpgcheck=1" > $MARIADB_REPO

        else
echo "[mariadb]
name=MariaDB
baseurl=http://yum.mariadb.org/10.4/centos6-x86
gpgkey=https://yum.mariadb.org/RPM-GPG-KEY-MariaDB
gpgcheck=1" > $MARIADB_REPO
        fi

    fi
    ok "Finished Configuring repos."

#wifi_hotspot install
info "Wifi hotspot package installing..."

yum install -y wifi_hotspot --exclude=php-common*;

info "Finished wifi_hotspot package installing."

```

The rpm wifi_hotspot package will be installed. It will be configured automatically according to the default configuration.

Installation/upgrading of the following environment will be performed during the installation:

1. PHP >= 7.1
2. MariaDB >= 10.4
3. Apache
4. Composer
5. PHP SSH2 lib
6. Laravel/Lumen

The necessary ports will be opened, and cron will be launched to perform scheduled background tasks during the installation process.

The module will be installed to the

```
/var/www/html/wifi_hotspot/
```

directory.

After the installation, enter in the browser:

```
http://<IP address of VM>/
```

Upgrade

To update a previously installed version, run the following command:

```
yum install -y wifi_hotspot
```

Configuration

System settings of the module are in the .env file:

```
/var/www/html/wifi_hotspot/backend/.env
```

The contents of the file are as follows:

```
#System settings, it's worth to avoid modifying it
APP_ENV=local
APP_DEBUG=true
APP_KEY=
APP_TIMEZONE=UTC

#System settings for connecting to the MySQL database, it's worth to avoid
modifying it
DB_CONNECTION=mysql
DB_HOST=localhost
DB_PORT=3306
DB_DATABASE=wifi_hotspot
DB_USERNAME=root
DB_PASSWORD=vasexperts

#Settings for connecting to the SMTP server. They serve to send
authorization data in debug mode.
CFG_SMTP_UNAME=smtptestvasexperts@gmail.com
CFG_SMTP_PW=pH3xkXTp1
CFG_SMTP_HOST=smtp.gmail.com
CFG_SMTP_PORT=587
CFG_SMTP_SECURE=tls
CFG_SMTP_SENDER=smtptestvasexperts@gmail.com

#System settings, modifying is forbidden
CACHE_DRIVER=file
QUEUE_DRIVER=database
SESSION_DRIVER=cookie
```



If .env file has been modified, you should run the following command:



```
php /var/www/html/wifi_hotspot/backend/artisan queue:restart
```

Version Information

Version v.1.3.3 (16.10.2023)

- Added possibility of auto substitution of code from SMS into the code input field (on mobile devices);
- Added option in the configuration file (backend/.env) OLD_AAA_FILE_LIFETIME_DAYS to delete AAA-session files after a specified number of days (default is 0 - do not delete)

Version v.1.2.19 (11.04.2022)

Corrects errors that occurred when using services that did not support phone numbers with a leading "+" and/or "8" sign:

- Added possibility to delete leading "+" sign in phone number
- Added option to replace the leading "8" with "7" in the phone number

Version v.1.2.17 (01.03.2022)

- Fixed errors in subscriber authorization/deauthorization script;
- Extended subscriber authorization/deauthorization logs
- Added ability to export AAA sessions
- Added the ability to configure the length of subscribers authorization code

Version v.1.2.4 (02.10.2020)

- Bugs fixed

Version v.1.1.0 (06.11.2019)

- The process of replacing the logo and icons through the dpiui2 interface reworked
- The size limitation of logo or icon file from 64kb to 750kb changed

Version v.1.0.10 (10/25/2019)

- Correction of the display of the portal on mobile devices
- Correction of the re-authorization algorithm

Version v.1.0.7 (15.09.2019)

- Created a new Wi-Fi HotSpot module

Known Issues

- When changing the logo within the [HotSpot Management](#) section there is a 64kb limit on the maximum file size. **Will be fixed in version v.1.1.0.**