FreeRADIUS

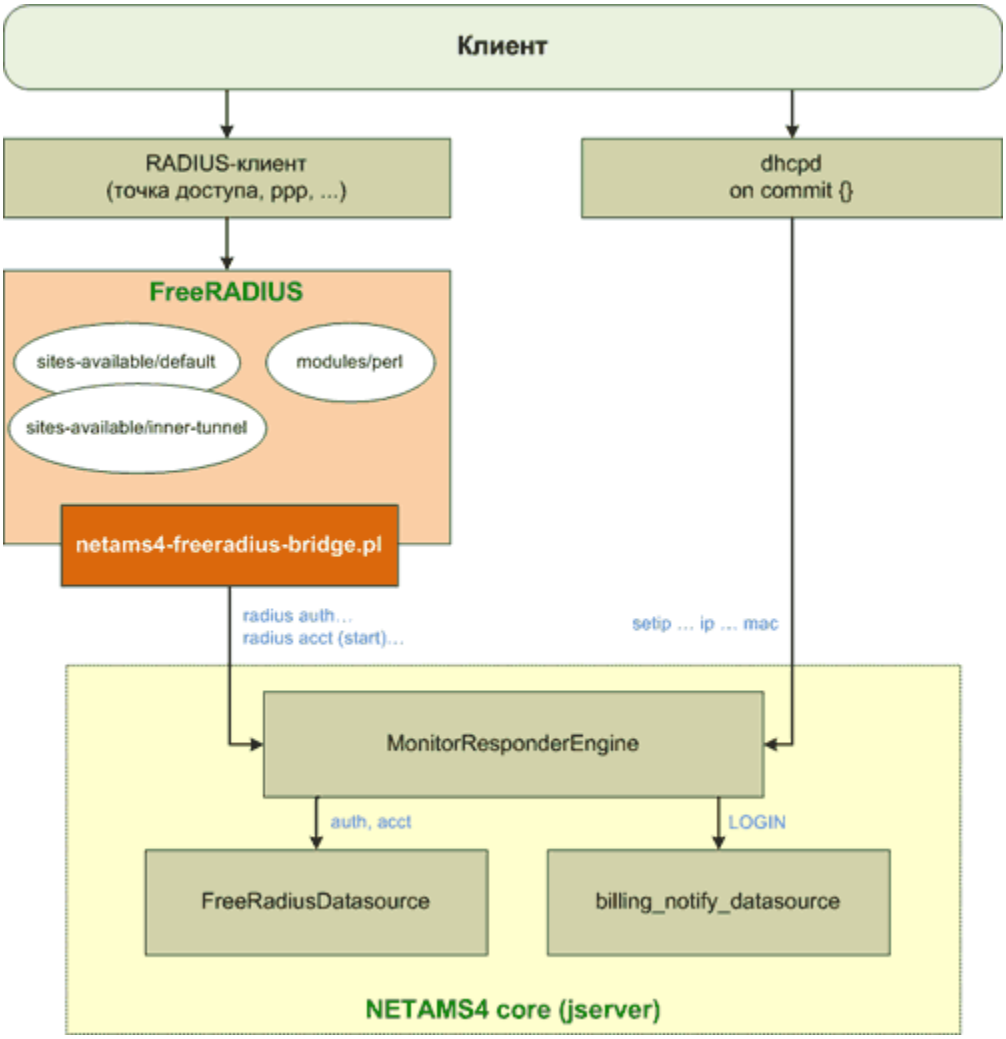
, EAP (, Wi-Fi RADIUS- EAP/MSCHAPv2) NETAMS4 RADIUS- FreeRADIUS.

NETAMS 4.0.1522 (03 2013).

FreeRadiusDataSource, . , **interim_interval** ( ), FreeRADIUS ( ) **N** .

, LocalJustRadius, RADIUS-, VPN-.

FreeRadiusDataSource FreeRADIUS MonitorResponderEngine, - **netams4-freeradius-bridge.pl** ( )



, RADIUS-, - (Wi-Fi), "-" (PEAP/EAP-MSCHAPv2). () WiFi-. (Windows, iOS) Ubiquiti UniFi, , (,) RADIUS (802.1x).

, , , WPA/WPA2 PSK (Personal) , FreeRADIUS (/etc/freeradius/users). NETAMS :

- (- , VPNService , XPrepaidByDaysVPN1, PeriodicFeeIncludedVolume, PeriodicFeeRateLimit ())
- ,
- (, " IP"
- (, ,)

FreeRadiusDataSource, FreeRADIUS DHCP ()

() FreeRADIUS-, -. FreeRADIUS - netams4-freeradius-bridge.pl, (()), MIME64, NETAMS /jserver (n4ctl, UDP-, 20003).

NETAMS4/jserver MonitorResponderEngine, :

- , FreeRadiusDataSource,
- MIME64 (AVPairs)
- authorization accounting

(authorization) - , username. (web username), (,). , FreeRadiusDataSource - MonitorResponderEngine - netams4-freeradius-bridge.pl - FreeRADIUS (- NTLM). , ( ), , .
(start) MAC- (acctunit). : 2, IP- RADIUS- ! (update) () . : Ubiquiti UniFi . (stop) MAC IP address , LOGOFF.
, IP- . , , , (FreeRADIUS) . DHCP, DHCP- (ISC DHCPD), . n4ctl setip MAC- IP- ; MAC- (RADIUS ACCT), IP , LOGIN .

FreeRADIUS (,). (NAS) /etc/freeradius/clients.conf - IP- RADIUS- ( ), .

perl (authorization) EAP- (**inner-tunnel**). , **mschap eap** .

perl (accounting) (**default**).

netams4-freeradius-bridge.pl PERL- (**modules/perl**) **example.pl**.

FreeRADIUS Perl- **libperl**, . , Debian Linux **/etc/default/freeradius**

```
LD_PRELOAD=/usr/lib/libperl.so.5.10
export LD_PRELOAD
```

FreeRadiusDataSource

, DHCP- IP-, **/etc/dhcp/dhcpd.conf** subnet { ... }

```
on commit {
   set clip = binary-to-ascii(10, 8, ".", leased-address);
   set clhw = binary-to-ascii(16, 8, ":", substring(hardware, 1, 6));
   execute("/usr/local/netams4/jserver/bin/n4ctl", "setip", "commit", clip, clhw);
 }
```

FreeRADIUS -X, , **netams4/logs/jserver.log** :

```
2013-03-06 10:18:33,535 DEBUG [monitor_responder] com.netams.netams4.datasource.FreeRadiusDatasource - RAD_AUTH:
authenticated user 'user' having SE=1
2013-03-06 10:18:33,547 DEBUG [monitor_responder] com.netams.netams4.datasource.FreeRadiusDatasource - RAD_AUTH:
authenticated user 'user' having SE=1
2013-03-06 10:18:33,560 DEBUG [monitor_responder] com.netams.netams4.datasource.FreeRadiusDatasource - RAD_AUTH:
authenticated user 'user' having SE=1
2013-03-06 10:18:33,587 INFO [monitor_responder] com.netams.netams4.datasource.FreeRadiusDatasource - RAD_ACCT
START user='user' AU id=1 Wireless, SET MAC to '98:fe:94:9b:38:58'
2013-03-06 10:18:34,971 INFO [RMI TCP Connection(10)-172.16.130.80] com.netams.netams4.RPCBridgeEngine - CAJO
collection_subset [q='mod_name=backup_restore and mod_key=sys and attribute_name=root_url', 1, 1, unidata]
2013-03-06 10:18:34,973 INFO [RMI TCP Connection(10)-172.16.130.80] com.netams.netams4.RPCBridgeEngine - CAJO
collection_subset [q='mod_name=backup_restore and mod_key=sys and attribute_name=root_url', unidata] returns=1
2013-03-06 10:18:35,139 INFO [RMI TCP Connection(10)-172.16.130.80] com.netams.netams4.RPCBridgeEngine - CAJO
authservice_getinfo [10.1.1.11]
2013-03-06 10:18:36,108 DEBUG [monitor_responder] com.netams.netams4.MonitorResponderEngine - setip: cmd=commit,
IP=10.1.1.11, MAC=98:fe:94:9b:38:58
2013-03-06 10:18:36,109 DEBUG [monitor_responder] com.netams.netams4.MonitorResponderEngine - setip: notified
au=1, set ip to 10.1.1.11
2013-03-06 10:18:36,109 DEBUG [monitor_responder] com.netams.netams4.BillingEngine - billing_notify_datasource
LOGIN, AU=1, ip=10.1.1.11, DS=0, rule=[128kbit]
2013-03-06 10:18:36,192 DEBUG [datasource] com.netams.netams4.datasource.ScriptCallDatasource - DS:2, CMD: 'LOGIN
10.1.1.11 32 1 '128kbit' 1362550716', state=0
2013-03-06 10:26:58,665 INFO [monitor_responder] com.netams.netams4.datasource.FreeRadiusDatasource - RAD_ACCT
STOP user='user' AU id=1 Wireless, CLEAR MAC from '98:fe:94:9b:38:58' and IP from 10.1.1.11
2013-03-06 10:26:58,665 DEBUG [monitor_responder] com.netams.netams4.BillingEngine - billing_notify_datasource
LOGOUT, AU=1, ip=10.1.1.11, DS=0, rule=[]
2013-03-06 10:26:58,752 DEBUG [datasource] com.netams.netams4.datasource.ScriptCallDatasource - DS:2, CMD:
'LOGOUT 10.1.1.11 32 1 '' 1362551218', state=0
```

, **FreeRADIUS** .