

WNAM , , , , .

! , WNAM, , RADIUS, 802.1x, TLS.

, WNAM ,.

1. - (/home/wnam/logs/wnam.log)

, . :

```
18:45:55.944 -  
TRACE - : TRACE, DEBUG, WARN, INFO, ERROR  
[c.netams.wnam.documents.aaa.ASession:132] - ,  
log [74] authorization - add tag 'EAP/AD ' to customer categories, MAC=58:91:CF:97:4D:7A -
```

- , , IP- () - . , (grep). (,), /home/wnam/logback.xml. : logback.xml : /home/wnam:

```
cd /home/wnam  
wget -O logback.xml 'http://docs.netams.com/download/attachments/49677573  
/logback.xml?version=2&modificationDate=1659021808000&api=v2'
```

/home/wnam/wnam.conf:

```
export JAVA_OPTS="-Xms512m -Xmx4g -Djava.net.preferIPv4Stack=true \  
-Dlogging.config=/home/wnam/logback.xml \  
-Djavax.net.debug=all \  
-Djava.security.debug=access:stack:trustmanager"
```

logback.xml - (100), . WnamFileAppender , :

```
<!-- see https://logback.qos.ch/manual/appenders.html -->  
<appender name="wnamFileAppender" class="ch.qos.logback.core.rolling.  
RollingFileAppender">  
  <file>logs/wnam.log</file>  
  <append>true</append>  
  <rollingPolicy class="ch.qos.logback.core.rolling.TimeBasedRollingPolicy">  
    <fileNamePattern>logs/wnam-%d{yyyy-MM-dd}.log.zip</fileNamePattern>  
    <maxHistory>10</maxHistory>  
  </rollingPolicy>  
  <encoder>  
    <pattern>%d{HH:mm:ss.SSS} %-5level [%file{36}:%line] - %msg%n</pattern>  
  </encoder>  
</appender>
```

2. - (/home/wnam/logs/console.log)

wnam.log, (stdout) WNAM. - Java-, (WNAM) :

```
18:44:44.975 WARN [o.a.t.util.scan.StandardJarScanner:175] - Failed to scan [file:/home/.m2/oracle/database/jdbc/ojdbc8/21.5.0.0  
/oraclepki.jar] from classloader hierarchy  
java.io.FileNotFoundException: /home/.m2/repository/com/oracle/database/jdbc/ojdbc8/21.5.0.0/oraclepki.jar ( )  
at java.util.zip.ZipFile.open(Native Method)
```

3. - RADIUS- (/home/wnam/radiuslog)

- RADIUS- WNAM, , IP- RADIUS-. --.log.

 - - .

- RADIUS- WNAM, . (AUTH, ACCT, CoA) :

```
22:54:43.774 AUTH REQ : User-Name - wifitest
22:54:43.774 AUTH REQ : Service-Type - Framed-User
22:54:43.774 AUTH REQ : VSA: Cisco-AVPair: service-type=Framed
22:54:43.774 AUTH REQ : Cisco-AVPair-service-type - Framed
22:54:43.774 AUTH REQ : Framed-MTU - 1500
22:54:43.774 AUTH REQ : Called-Station-Id - 18-9C-5D-93-47-81
22:54:43.774 AUTH REQ : Calling-Station-Id - 28-D2-44-95-A7-A4
22:54:43.774 AUTH REQ : EAP-Message -
0x020b002b19001703010020223c217a29d375c84c41bd07fd131d3814478d12dfe8cccd7a30b0f90deddc63
22:54:43.774 AUTH REQ : Message-Authenticator - 0x885cb6ae2270c5513a86ee4ba59a4619
22:54:43.774 AUTH REQ : VSA: Cisco-AVPair: audit-session-id=AC108226000000F26219599A
22:54:43.774 AUTH REQ : Cisco-AVPair-audit-session-id - AC108226000000F26219599A
22:54:43.774 AUTH REQ : NAS-Port-Type - Ethernet
22:54:43.774 AUTH REQ : VSA: Unknown-Sub-Attribute-2: 0x4661737445746865726e6574302f31
22:54:43.774 AUTH REQ : NAS-Port - 50001
22:54:43.774 AUTH REQ : NAS-Port-Id - FastEthernet0/1
22:54:43.774 AUTH REQ : State - 0x7d2855622d623e6f393964386c5c4f3c
22:54:43.774 AUTH REQ : NAS-IP-Address - 172.16.130.38
22:54:43.801 AUTH RSP : Access-Accept, ID 164
22:54:43.802 AUTH RSP : AVP: MS-MPPE-Recv-Key =
0x72238fab10a003d396e3489fde9f2a641cd40e9770b86acf5ab3b98b5a9c1cb5
22:54:43.802 AUTH RSP : AVP: MS-MPPE-Send-Key =
0x79b589448fd5cdbaba11e8064861949b486142a3accc89f5b25f0b213788c94f
22:54:43.802 AUTH RSP : AVP: EAP-Message = 0x030b0004
22:54:43.802 AUTH RSP : AVP: User-Name = wifitest
22:54:43.802 AUTH RSP : AVP: Message-Authenticator = 0x851808893f141063d347dbba615c9a9a
22:54:43.802 AUTH RSP : AVP_LEN=5
```

RADIUS-, Wireshark.

4.

802.1 a12sessions (ASession) - WNAM. "" "" . ()-, , .

Корпоративные подключения

- Все площадки -

- Все сервера доступа -

Применить

Показывать: 10 записей на странице

Время	MAC	Идентификатор	Площадка	NAS	Политики	Результат
24.04.2022 18:51:22	72:02:5A:DF:99:68	олдд	FNM В CWA	FNM LAB IOS XE 93.180.6.168	По сертификату (TLS) Все пользователи в VLAN 100	✓
24.04.2022 18:45:55	58:91:CF:97:4D:7A	wifitest	FNM В CWA	FNM LAB IOS XE 93.180.6.168	EAP/AD сотрудники FNM Wi-Fi	✓
24.04.2022 18:19:20	72:02:5A:DF:99:68	олдд	FNM В CWA	FNM LAB IOS XE 93.180.6.168	По сертификату (TLS) Все пользователи в VLAN 100	✓
24.04.2022 18:02:54	58:91:CF:97:4D:7A	wifitest	FNM В CWA	FNM LAB IOS XE 93.180.6.168	EAP/AD сотрудники FNM Wi-Fi	✓
24.04.2022 17:56:29	58:91:CF:97:4D:7A	wifitest	FNM В CWA	FNM LAB IOS XE 93.180.6.168	EAP/AD сотрудники FNM Wi-Fi	✓
24.04.2022 17:47:49	72:02:5A:DF:99:68	олдд	FNM В CWA	FNM LAB IOS XE 93.180.6.168	По сертификату (TLS) Все пользователи в VLAN 100	✓
24.04.2022 17:26:28	58:91:CF:97:4D:7A	wifitest	FNM В CWA	FNM LAB IOS XE 93.180.6.168	EAP/AD сотрудники FNM Wi-Fi	✓
24.04.2022 17:23:50	58:91:CF:97:4D:7A	wifitest	FNM В CWA	FNM LAB IOS XE 93.180.6.168	EAP/AD сотрудники FNM Wi-Fi	✓
24.04.2022 17:23:42	58:91:CF:97:4D:7A	host/kyle	FNM В CWA	FNM LAB IOS XE 93.180.6.168	Default reject	✗
24.04.2022 17:19:53	58:91:CF:97:4D:7A		FNM В CWA	FNM LAB IOS XE 93.180.6.168	Default reject	✗

Поиск

Поиск

Показано с 1 по 10 из 294 записей

Параметры записи о сессии

MAC

58:91:CF:97:4D:7A

Идентификатор

wifitest

IP адрес

10.241.144.117

SSID

Corporate Wi-Fi

Площадка

FNM В CWA

Профиль аутентификации

EAP/AD сотрудники

Профиль авторизации

FNM Wi-Fi

Время начала

24.04.2022, 18:45:55

Имя

Тестовый Вайфай 2

Метод

EAP_PEAP

Фреймов

12

Сервер доступа

FNM LAB IOS XE

Тэг

fnm_wifi

Тэг

Лог подключения:

1: findOrCreate - alprofiles candidates: 4, a2profiles candidates: 8

2: filterForA1Identity - alprofiles candidates: 3 for source access server / bclient

3: filterForWLAN - alprofiles candidates: 3 for wlan 'Corporate Wi-Fi' (ID=2)

4: newRadiusFrame - Frame type: EAP_IDENTITY, Frame ID: 2, RADIUS EAP State: null

5: filterForA1Identity - alprofiles candidates: 3 for identity wifitest

6: radius - send RADIUS CHALLENGE with 3 attributes

7: newRadiusFrame - Frame type: EAP_NAK, Frame ID: 3, RADIUS EAP State: 0x6e407d4f6932663e2f6b464469793644

8: filterForA1Method - alprofiles candidates: 2 for method EAP_PEAP

9: filterForA1Method - checkForAdIdentity 'wifitest' requested, cached=false, requested=false

10: radius - send RADIUS CHALLENGE with 3 attributes

11: newRadiusFrame - Frame type: EAP_PEAP, Frame ID: 4, RADIUS EAP State: 0x6e407d4f6932663e2f6b464469793644

12: filterForA1Method - alprofiles candidates: 2 for method EAP_PEAP

Параметры учетной записи пользователя

Скопировать лог в буфер

Закреть

MAC

58:91:CF:97:4D:7A

Время начала

24.04.2022, 18:45:55

Идентификатор

wifitest

Имя

Тестовый Вайфай 2

IP адрес

10.241.144.117

Метод



EAP_PEAP

SSID

Corporate Wi-Fi

Фреймов

12

Площадка

FNM B CWA

Сервер доступа

FNM LAB IOS XE

Профиль аутентификации

EAP/AD сотрудники

Tэг

fnm_wifi



Профиль авторизации

FNM Wi-Fi

Təg



Лог подключения:

```

1: findOrCreate - alprofiles candidates: 4, a2profiles candidates: 8
2: filterForA1Identity - alprofiles candidates: 3 for source access server / bcllient
3: filterForWLAN - alprofiles candidates: 3 for wlan 'Corporate Wi-Fi' (ID=2)
4: newRadiusFrame - Frame type: EAP_IDENTITY, Frame ID: 2, RADIUS EAP State: null
5: filterForA1Identity - alprofiles candidates: 3 for identity wifitest
6: radius - send RADIUS CHALLENGE with 3 attributes
7: newRadiusFrame - Frame type: EAP_NAK, Frame ID: 3, RADIUS EAP State: 0x6e407d4f6932663e2f6b464469793644
8: filterForA1Method - alprofiles candidates: 2 for method EAP_PEAP
9: filterForA1Method - checkForAdIdentity 'wifitest' requested, cached=false, requested=false
10: radius - send RADIUS CHALLENGE with 3 attributes
11: newRadiusFrame - Frame type: EAP_PEAP, Frame ID: 4, RADIUS EAP State: 0x6e407d4f6932663e2f6b464469793644
12: filterForA1Method - alprofiles candidates: 2 for method EAP_PEAP

```

Параметры учетной записи пользователя

Скопировать лог в буфер

Заккрыть

```
" " (ASession wnam_db) (clipboard) JSON:-
```

24.04.2022, 18:45:55

```
{
  "id": "626570b3df3ee423a0f91053",
  "mac": "58:91:CF:97:4D:7A",
  "identity": "wifitest",
  "name": " 2",
  "nameCN": null,
  "nameSAN": null,
  "portType": "Wireless",
  "method": "EAP_PEAP",
  "ip": "10.241.144.117",
  "eapSessionId": "0x6e407d4f6932663e2f6b464469793644",
  "acctSessionId": "A806B45D000009AA5C401C54",
  "ssid": "Corporate Wi-Fi",
  "wlanId": "2",
  "accessServerId": "5f6dd26a8005e1b8e0338059",
  "accessServerName": "FNM LAB IOS XE",
  "accessServerPort": "capwap_90000005",
  "accessServerVendor": null,
  "accessServerEnabled": true,
  "siteId": "2",
  "siteName": "FNM B CWA",
  "siteEnabled": false,
  "bclientId": null,
  "blientName": null,
  "startTime": 1650815155163,
  "endTime": 1650815155959,
  "frames": 12,
  "a1ProfileId": "623599750a64e63ba40a6d43",
  "a1ProfileName": "EAP/AD ",
  "a1Tag": "fnm_wifi",
  "a1Properties": null,
  "a1Result": "Allow",
  "a2ProfileId": "6259633803e250364c4a7113",
  "a2ProfileName": "FNM Wi-Fi",
  "a2Tag": null,
  "a2Properties": null,
  "a2Result": "Accept",
  "log": "",
  "matchedA1P": [],
  "matchedA2P": [],
  "password": null
}
```

```
1: findOrCreate - a1profiles candidates: 4, a2profiles candidates: 8
2: filterForA1Identity - a1profiles candidates: 3 for source access server /
bclient
3: filterForWLAN - a1profiles candidates: 3 for wlan 'Corporate Wi-Fi' (ID=2)
4: newRadiusFrame - Frame type: EAP_IDENTITY, Frame ID: 2, RADIUS EAP State: null
5: filterForA1Identity - a1profiles candidates: 3 for identity wifitest
6: radius - send RADIUS CHALLENGE with 3 attributes
...
```

- , TLS- WNAME . , . - , RADIUS-

WNAME .

1. -

, (Wi-Fi,) . , (802.1x) :-, , DHCP, DNS, NAT,, ..

2.

. - , RADIUS- WNAME, . :

- WNAME ;
- WNAME (RADIUS-);
- WNAME (, PKI,).

, - wname.log :

18:45:55.316 TRACE [c.n.wnam.services.WnamRadiusService:711] - WnamRadiusService init SSL subsystem for EAP
18:45:55.316 TRACE [c.n.wnam.services.WnamRadiusService:713] - WnamRadiusService accepted client cert issuer: CN=WNAM Lab Root CA, O=Netams. LLC, OU=Development, L=Moscow, EMAILADDRESS=support@netams.com
18:45:55.316 TRACE [c.n.wnam.services.WnamRadiusService:713] - WnamRadiusService accepted client cert issuer: CN=Registry Server, O=Netams. LLC, OU=Development, L=Moscow, EMAILADDRESS=support@netams.com
18:45:55.317 TRACE [c.n.wnam.services.WnamRadiusService:715] - WnamRadiusService TLS server: CN=Auth Server, O=Netams. LLC, OU=Development, L=Moscow, EMAILADDRESS=support@netams.com

3.

WNAM / , .

Отменить

Сертификат

Доверять



Auth Server

Выдан WNAM Lab Root CA

Ненадежный

Истекает 20.07.2024, 14:07:25

Подробнее

Тема

Адрес электронной почтыsupport@netams.com

ГдеMoscow

ПодразделениеDevelopment

ОрганизацияNetams. LLC

Общее имяAuth Server

Кем выдан

Адрес электронной почтыsupport@netams.com

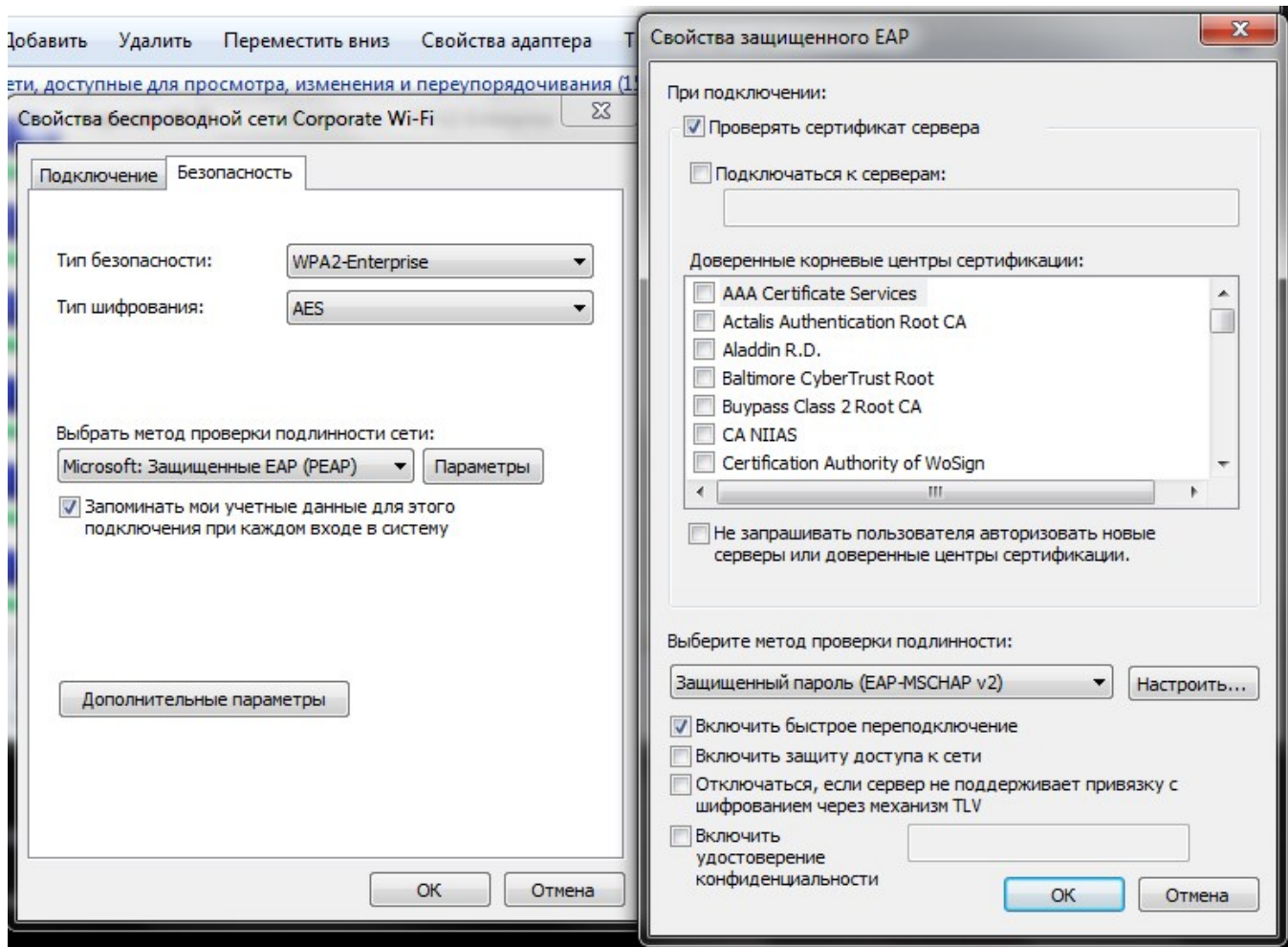
ГдеMoscow

ПодразделениеDevelopment

ОрганизацияNetams. LLC

Общее имяWNAM Lab Root CA

. . , "" Windows , .



4.

, (VLAN, ACL, , ..), . WNAME (,), ACL , , . VLAN 100 , , IP- .