How to check if an extension is registered

Applies to VoipNow 3 and higher!

VoipNow uses Kamailio for the extension registration process. However, you can also use the `sip show peers` Asterisk command to check your IP, as well as the port of your extensions. If an extension is listed, then it is either registered or set up with a static IP port. This article describes how you can check the extensions registered in the system.

Before you start, make sure that the following requirements are met:

- You have a VoipNow 3 or higher.
- You have access and basic knowledge for using a SSH client (e.g. `Putty`).

Step-by-step guide

Please note that the Asterisk `sip show registry` command will not provide any information on registered extensions!

Kamailio stores the information about the registered extensions in Hubring. To find out the extensions currently registered, please do as follows:

STEP 1: Using your favorite SSH console (e.g.: `Putty`), connect to Hubring:

```
 hr-cli -dp `cat /etc/voipnow/main.conf | grep DIS | awk -F':' '{print $3}'` -n 10 -h `cat /etc/voipnow
/disdbase.conf | grep DIS | awk -F':' '{print $4}'`
```

STEP 2: Once you are connected to the Hubring server (you will get the Hubring prompt: hubring <HubringHost>:11211[10]>`,`), you can use the following commands to see the registered extensions:

```
keys rtl:sipses:ext:*:*
```

This command will print the Hubring key for all the registered extensions. You will see something like this:

```
hubring 10.150.12.43:11211[10]> keys rtl:sipses:ext:*:*
1) "rtl:sipses:ext:0003*001:r1RZH9CI/E+lda1Bu+cYRXqexgE="
2) "rtl:sipses:ext:0003*008:eGH3b5ygmnh3Y+xcAlNSQ7p6fWE="
3) "rtl:sipses:ext:0003*004:GmadgY7HmzHJQxjxHKTmbWT0XiU="
4) "rtl:sipses:ext:0003*001:bjLE1jDmQ5bwsb+6wMTl6xjBCrU="
```

If you like to see find out all the SIP session information for a certain extension you can run.

```
hubring 10.150.12.43:11211[10]> hgetall rtl:sipses:ext:0003*001:r1RZH9CI/E+lda1Bu+cYRXqexgE=
 1) "u"
 2) "0003*001"
 3) "contact"
 4) "sip:0003*001@10.150.12.52:5061;transport=TLS"
 5) "expires"
 6) "2017-05-03 14:44:47"
 7) "q"
 8) "-1.00     "
 9) "callid"
10) "41e6455a3882f898047e5c91409848e2@10.150.12.52"
11) "cseq"
12) "461"
13) "flags"
14) "0"
15) "cflags"
16) "64"
17) "ua"
18) "AsteriskVanillaPBX"
19) "rec"
20) "sip:10.150.12.52:59008;transport=TLS"
21) "ph"
22) ""
23) "sk"
24) "tls:10.150.12.43:5061"
25) "mh"
26) ""
27) "lm"
28) "2017-05-03 14:42:47"
29) "exp"
30) ""
31) "rch"
32) "yes"
33) "sipnod"
34) "9e665384cb"
35) "ruid"
36) "uloc-5909934b-1c70-1"
37) "inst"
38) ""
39) "rid"
40) "0"
41) "devid"
42) ""
```

The registered extensions can be checked from the VoipNow interface as well. Depending on your account, you have access to the following information:

- The system administrator can view all the extensions in the system and their registration status from the **Extensions Management** page. The **State** column displays the current status of the phone terminal connected to the extension.
- The service providers can check the registration status for the Phone terminal extensions defined for all their client accounts on the Extensions Management page.
- The organizations can check the registration status for all their Phone terminal extensions on their home page.

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