

Opsi server u računalnoj učionici

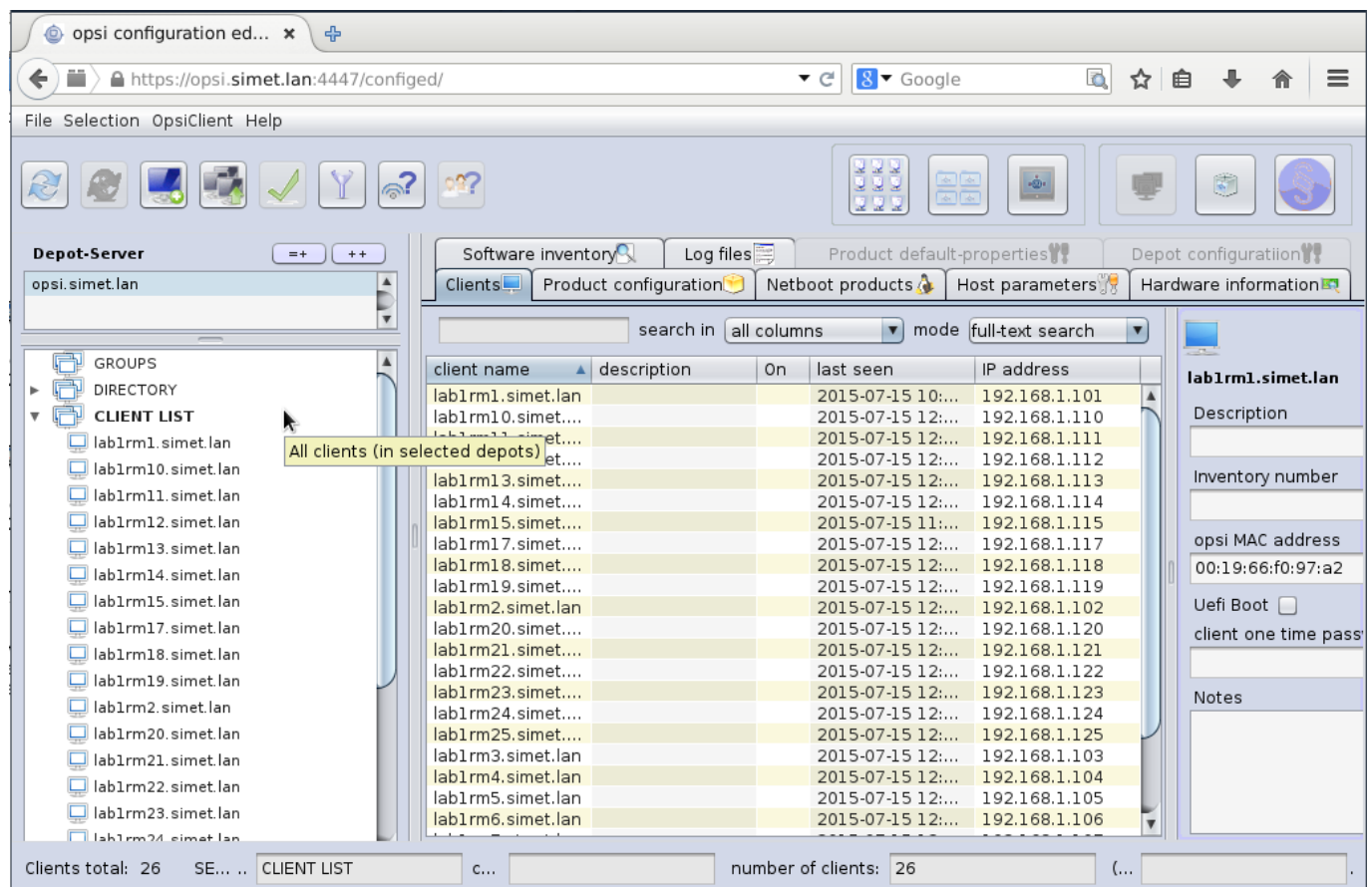


Nakon što smo uspješno instalirali jednog opsi klijenta, na isti način možemo "učlaniti" sva računala iz lokalne mreže, potom im dodijeliti grupe te "daljinski" upravljati njima putem mreže.

Tako formirana grupa, na primjer računalna učionica, može se vrlo praktično iskoristiti za monoton i prilično frustrirajući posao kao što je paljenje i gašenje cca 30-tak računala zbog redovitog održavanja. Vjerovatno vam se više puta dogodilo da napustite instalaciju softvera na računalima jer su vas prekinuli drugi poslovi, te na kraju dana nemate više vremena, snage i živaca vraćati se u pc-lab da ih ručno pošaljete u "shut down". Kako napraviti masovno uspavlivanje i buđenje računalne učionice kroz web preglednik?

S opsi serverom to je prilično jednostavno. Ulogirajmo se u opsi kofikator.

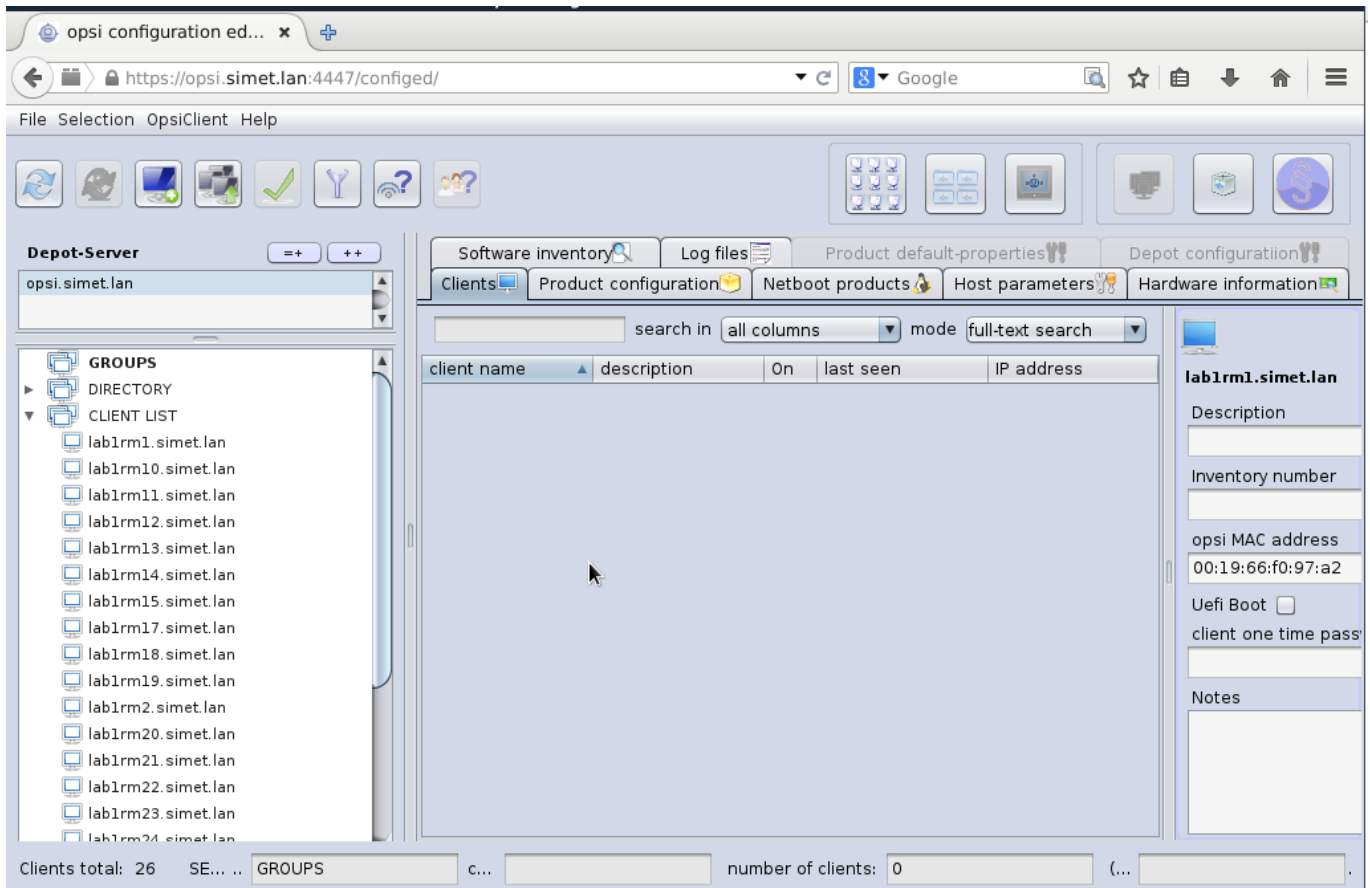
Za početak učlanimo sva računala iz učionice na opsi server. Moraju biti vidljiva na listi klijenta.



The screenshot shows the Opsi configuration web interface in a browser. The address bar shows `https://opsi.simet.lan:4447/configed/`. The interface includes a navigation menu on the left with "CLIENT LIST" selected. A central table displays a list of clients with columns for client name, description, On status, last seen, and IP address. A tooltip "All clients (in selected depots)" is visible over the table. The status bar at the bottom indicates "Clients total: 26" and "number of clients: 26".

client name	description	On	last seen	IP address
lab1rm1.simet.lan			2015-07-15 10:...	192.168.1.101
lab1rm10.simet....			2015-07-15 12:...	192.168.1.110
lab1rm11.simet....			2015-07-15 12:...	192.168.1.111
lab1rm12.simet....			2015-07-15 12:...	192.168.1.112
lab1rm13.simet....			2015-07-15 12:...	192.168.1.113
lab1rm14.simet....			2015-07-15 12:...	192.168.1.114
lab1rm15.simet....			2015-07-15 11:...	192.168.1.115
lab1rm17.simet....			2015-07-15 12:...	192.168.1.117
lab1rm18.simet....			2015-07-15 12:...	192.168.1.118
lab1rm19.simet....			2015-07-15 12:...	192.168.1.119
lab1rm2.simet.lan			2015-07-15 12:...	192.168.1.102
lab1rm20.simet....			2015-07-15 12:...	192.168.1.120
lab1rm21.simet....			2015-07-15 12:...	192.168.1.121
lab1rm22.simet....			2015-07-15 12:...	192.168.1.122
lab1rm23.simet....			2015-07-15 12:...	192.168.1.123
lab1rm24.simet....			2015-07-15 12:...	192.168.1.124
lab1rm25.simet....			2015-07-15 12:...	192.168.1.125
lab1rm3.simet.lan			2015-07-15 12:...	192.168.1.103
lab1rm4.simet.lan			2015-07-15 12:...	192.168.1.104
lab1rm5.simet.lan			2015-07-15 12:...	192.168.1.105
lab1rm6.simet.lan			2015-07-15 12:...	192.168.1.106

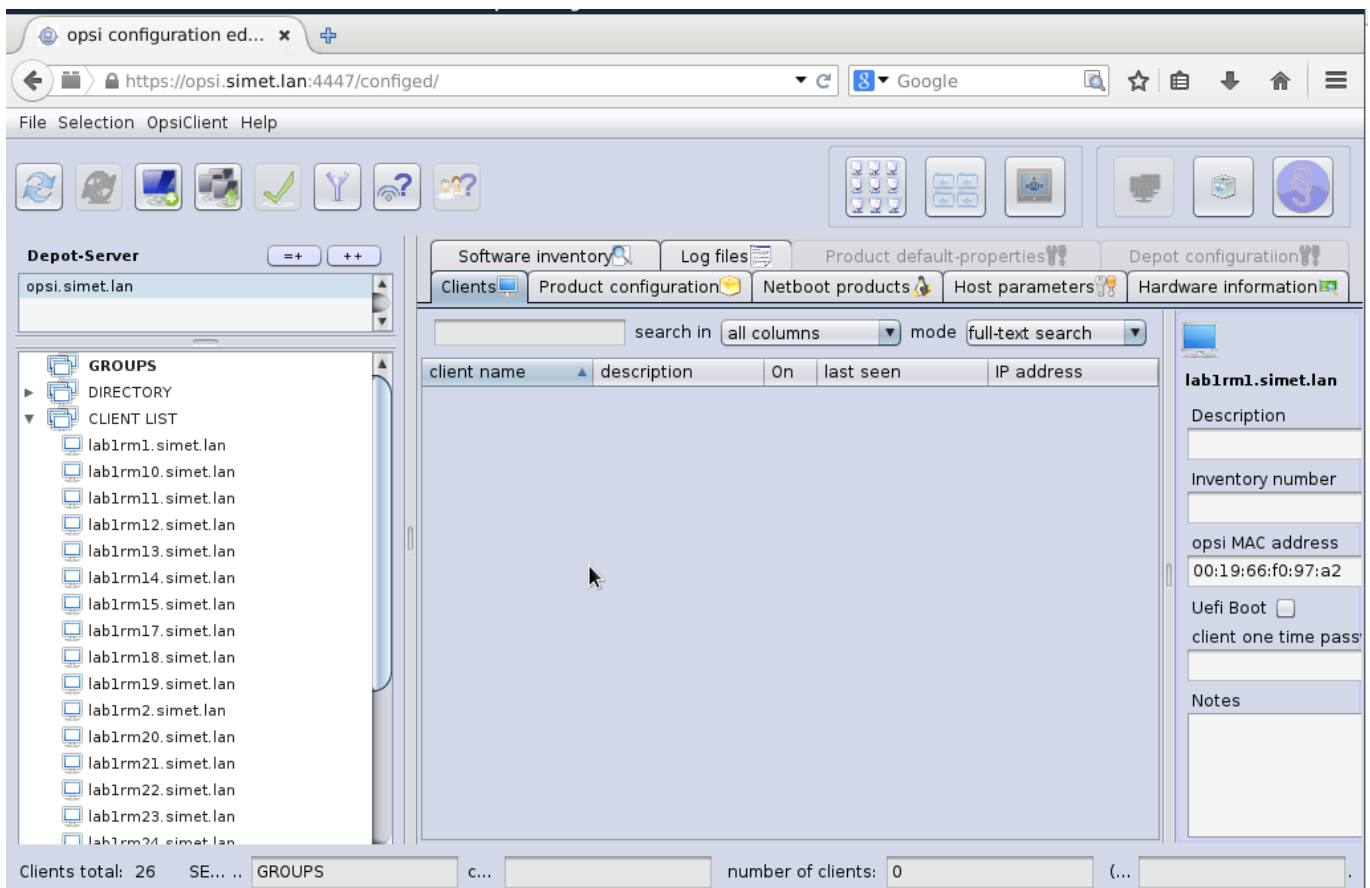
Označimo "**GROUPS**" te kreiramo grupu "LAB1".



The screenshot shows the Opsi configuration web interface. The browser address bar displays `https://opsi.simet.lan:4447/configed/`. The interface includes a top navigation bar with 'File', 'Selection', 'OpsClient', and 'Help'. Below this is a toolbar with various icons. The main area is divided into several sections:

- Depot-Server:** A sidebar on the left showing a tree view of 'GROUPS' and 'CLIENT LIST'. The 'CLIENT LIST' is expanded, showing a list of clients from `lab1rm1.simet.lan` to `lab1rm24.simet.lan`.
- Software inventory:** A central pane with a search bar and a table of clients. The table has columns for 'client name', 'description', 'On', 'last seen', and 'IP address'. The table is currently empty.
- Product configuration:** A pane on the right showing details for the selected client `lab1rm1.simet.lan`. It includes fields for 'Description', 'Inventory number', 'opsi MAC address' (00:19:66:f0:97:a2), 'Uefi Boot' (checkbox), and 'client one time pass'.

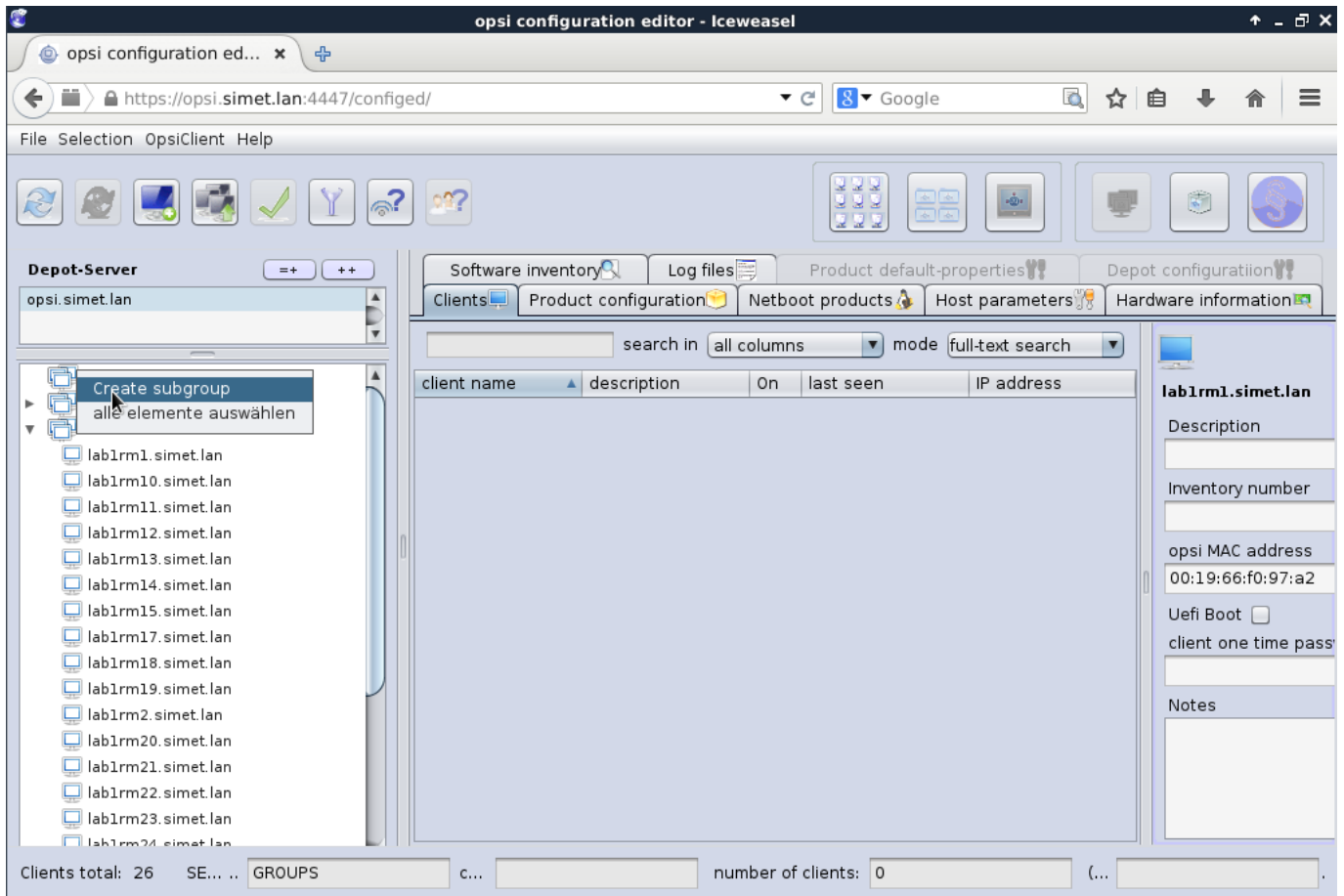
At the bottom of the interface, there is a status bar showing 'Clients total: 26' and 'number of clients: 0'.



This is a duplicate of the screenshot above, showing the same Opsi configuration web interface. The browser address bar displays `https://opsi.simet.lan:4447/configed/`. The interface includes a top navigation bar with 'File', 'Selection', 'OpsClient', and 'Help'. Below this is a toolbar with various icons. The main area is divided into several sections:

- Depot-Server:** A sidebar on the left showing a tree view of 'GROUPS' and 'CLIENT LIST'. The 'CLIENT LIST' is expanded, showing a list of clients from `lab1rm1.simet.lan` to `lab1rm24.simet.lan`.
- Software inventory:** A central pane with a search bar and a table of clients. The table has columns for 'client name', 'description', 'On', 'last seen', and 'IP address'. The table is currently empty.
- Product configuration:** A pane on the right showing details for the selected client `lab1rm1.simet.lan`. It includes fields for 'Description', 'Inventory number', 'opsi MAC address' (00:19:66:f0:97:a2), 'Uefi Boot' (checkbox), and 'client one time pass'.

At the bottom of the interface, there is a status bar showing 'Clients total: 26' and 'number of clients: 0'.



opsi configuration editor - Iceweasel

File Selection OpsiClient Help

Software inventory Log files Product default-properties Depot configuration

Clients Product configuration Netboot products Host parameters Hardware information

search in all columns mode full-text search

client name	description	On	last seen	IP address
(Empty table)				

lab1rm1.simet.lan

Description

Inventory number

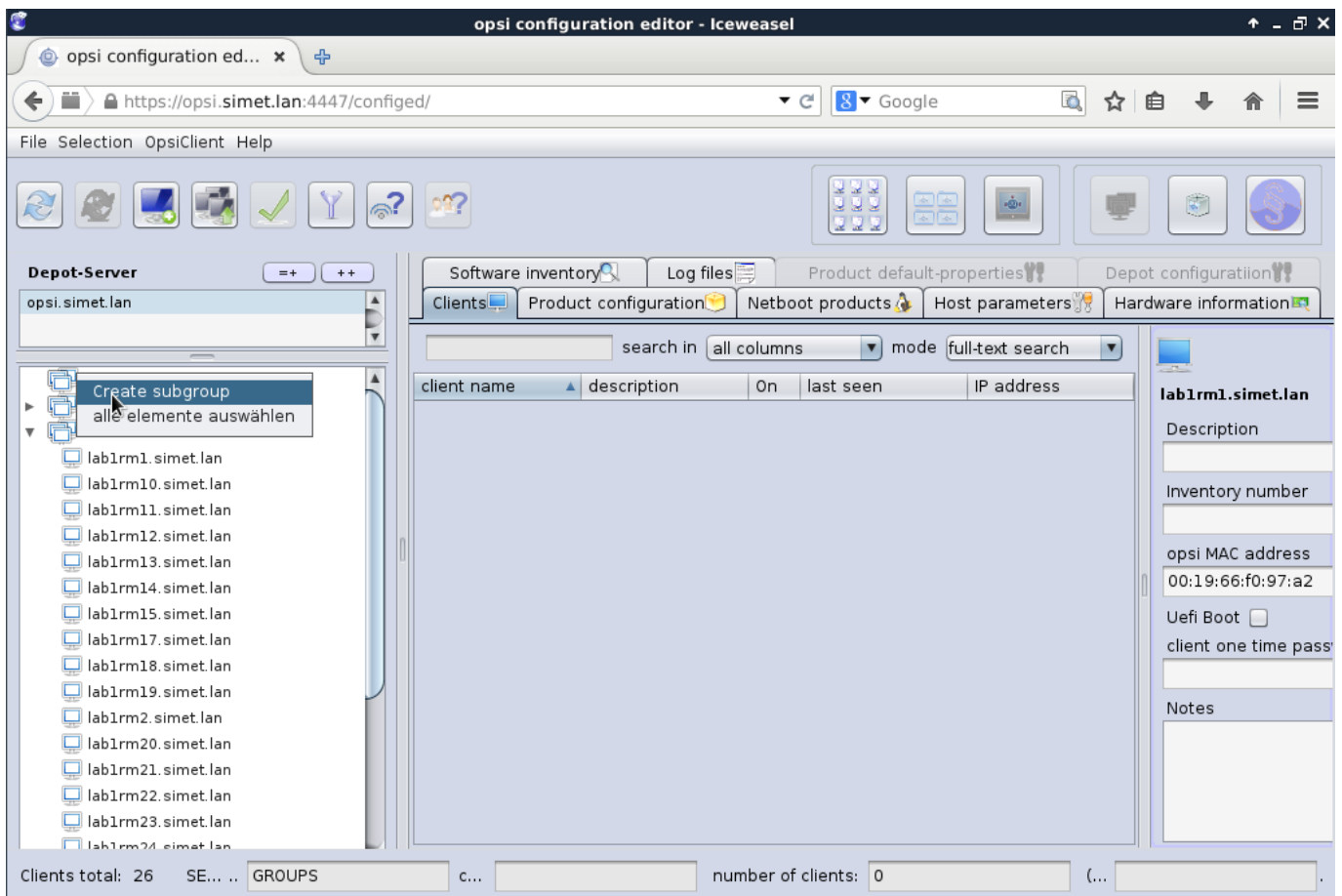
opsi MAC address
00:19:66:f0:97:a2

Uefi Boot

client one time pass

Notes

Clients total: 26 SE... GROUPS c... number of clients: 0 (...)



opsi configuration editor - Iceweasel

File Selection OpsiClient Help

Software inventory Log files Product default-properties Depot configuration

Clients Product configuration Netboot products Host parameters Hardware information

search in all columns mode full-text search

client name	description	On	last seen	IP address
(Empty table)				

lab1rm1.simet.lan

Description

Inventory number

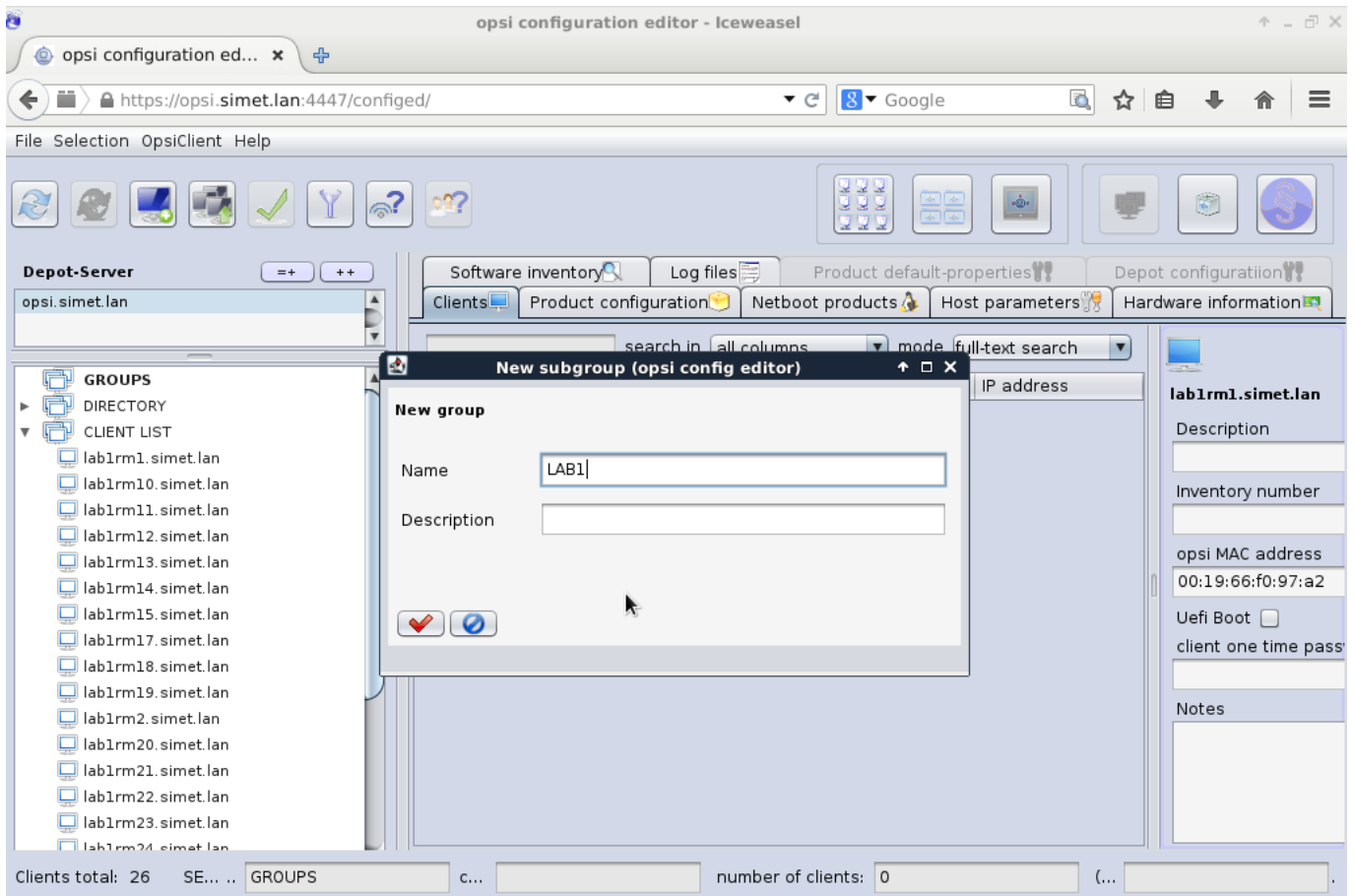
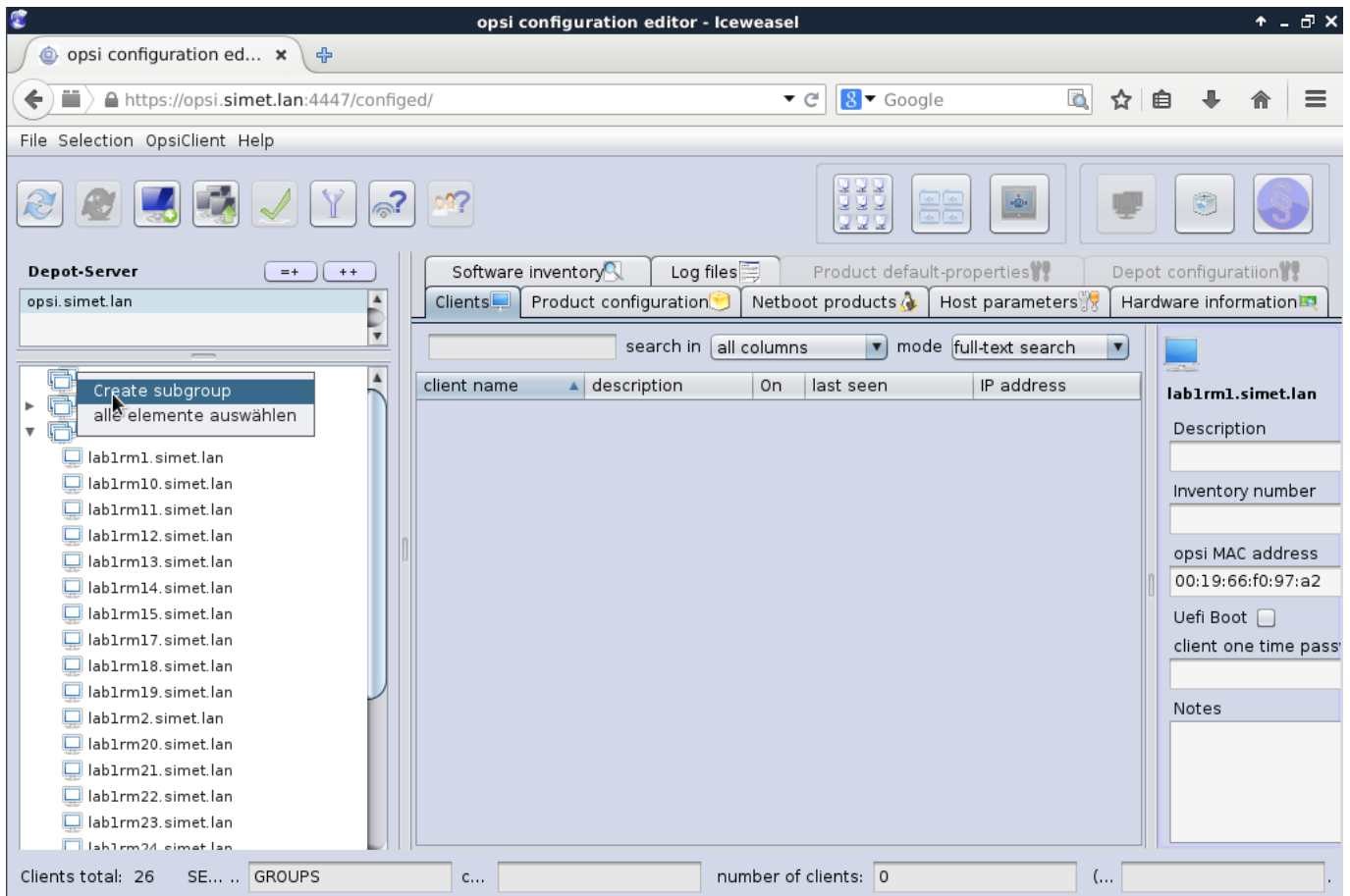
opsi MAC address
00:19:66:f0:97:a2

Uefi Boot

client one time pass

Notes

Clients total: 26 SE... GROUPS c... number of clients: 0 (...)



The screenshot displays the Opsis configuration editor web interface. The browser address bar shows the URL `https://opsi.simet.lan:4447/configed/`. The interface includes a navigation menu on the left with 'lab1' selected, a central table for client management, and a right-hand panel for configuration details. The status bar at the bottom shows 'Clients total: 26' and 'number of clients: 0'.

client name	description	On	last seen	IP address
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lab1rm1.simet.lan

Description

Inventory number

opsi MAC address
00:19:66:f0:97:a2

Uefi Boot

client one time pass

Notes

Clients total: 26 SE... .. lab1 c... .. number of clients: 0 (... ..)



Prebacimo se na "**CLIENT LIST**" označimo zadnje računalo te sa **CTRL+** strelica gore "poplavimo" klijente koje želimo u grupi "lab1". Tako označene klijente "drag and drop" metodom "povučemo" u *lab1* grupu.

opsi configuration editor - Iceweasel

opsi configuration ed... x

https://opsi.simet.lan:4447/configed/

File Selection OpsiClient Help

Software inventory Log files Product default-properties Depot configuration

Clients Product configuration Netboot products Host parameters Hardware information

search in all columns mode full-text search

client name	description	On	last seen	IP address
lab1rm14.simet...			2015-07-15 12:...	192.168.1.114
lab1rm15.simet...			2015-07-15 11:...	192.168.1.115
lab1rm17.simet...			2015-07-15 12:...	192.168.1.117
lab1rm18.simet...			2015-07-15 12:...	192.168.1.118
lab1rm19.simet...			2015-07-15 12:...	192.168.1.119
lab1rm2.simet.lan			2015-07-15 12:...	192.168.1.102
lab1rm20.simet...			2015-07-15 12:...	192.168.1.120
lab1rm21.simet...			2015-07-15 12:...	192.168.1.121
lab1rm22.simet...			2015-07-15 12:...	192.168.1.122
lab1rm23.simet...			2015-07-15 12:...	192.168.1.123
lab1rm24.simet...			2015-07-15 12:...	192.168.1.124
lab1rm25.simet...			2015-07-15 12:...	192.168.1.125
lab1rm3.simet.lan			2015-07-15 12:...	192.168.1.103
lab1rm4.simet.lan			2015-07-15 12:...	192.168.1.104
lab1rm5.simet.lan			2015-07-15 12:...	192.168.1.105
lab1rm6.simet.lan			2015-07-15 12:...	192.168.1.106
lab1rm7.simet.lan			2015-07-15 12:...	192.168.1.107
lab1rm8.simet.lan			2015-07-15 12:...	192.168.1.108
lab1rm9.simet.lan			2015-07-15 12:...	192.168.1.109
opsi-pc.simet.lan			2015-06-08 10:...	192.168.1.84
sat140-pc.simet.l...			2015-05-20 09:...	192.168.1.7

Clients total: 26 SE... c... lab1rm9.simet.lan number of clients: 1 (... opsi.simet.lan)

opsi configuration editor - Iceweasel

opsi configuration ed... x

https://opsi.simet.lan:4447/configed/

File Selection OpsiClient Help

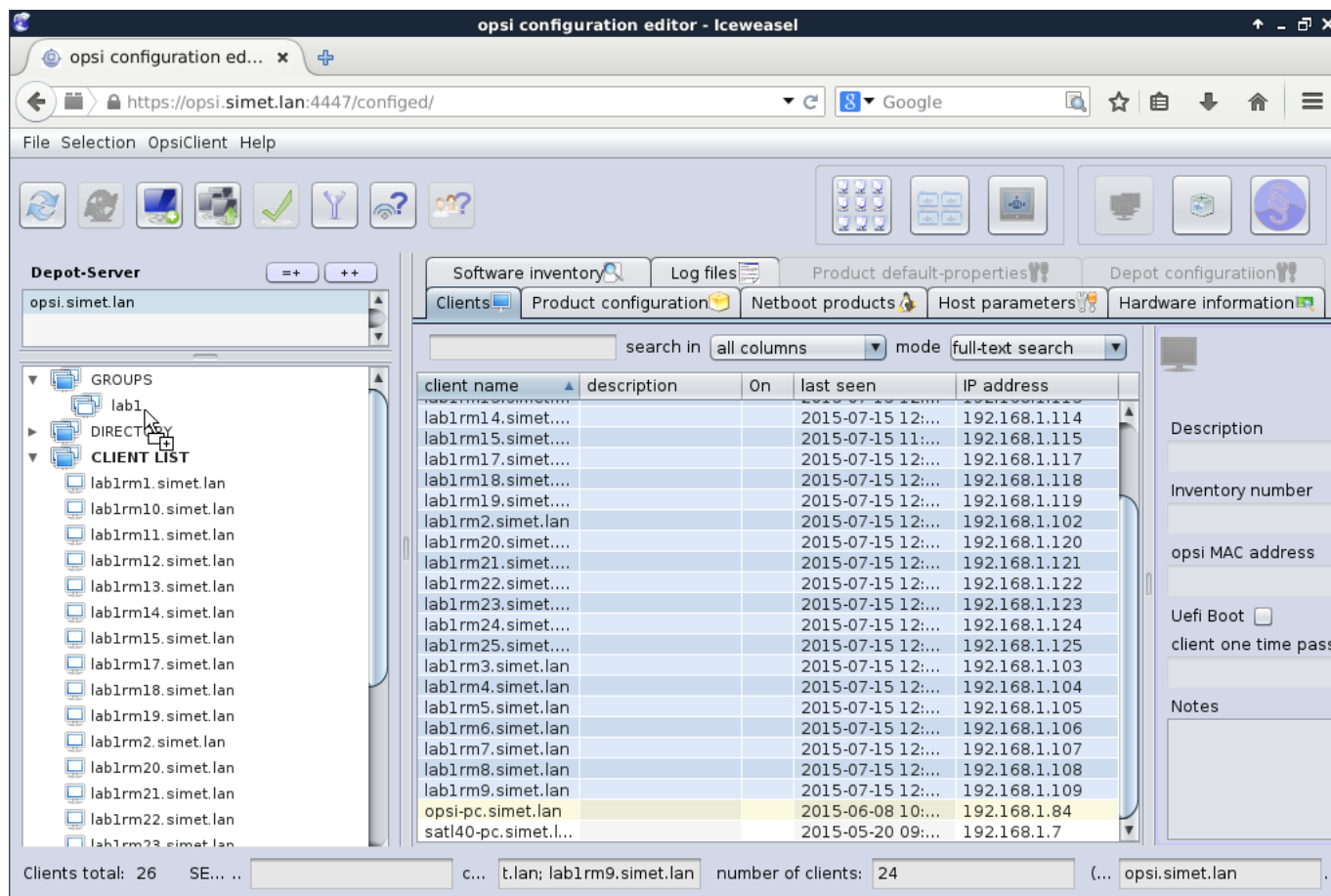
Software inventory Log files Product default-properties Depot configuration

Clients Product configuration Netboot products Host parameters Hardware information

search in all columns mode full-text search

client name	description	On	last seen	IP address
lab1rm14.simet...			2015-07-15 12:...	192.168.1.114
lab1rm15.simet...			2015-07-15 11:...	192.168.1.115
lab1rm17.simet...			2015-07-15 12:...	192.168.1.117
lab1rm18.simet...			2015-07-15 12:...	192.168.1.118
lab1rm19.simet...			2015-07-15 12:...	192.168.1.119
lab1rm2.simet.lan			2015-07-15 12:...	192.168.1.102
lab1rm20.simet...			2015-07-15 12:...	192.168.1.120
lab1rm21.simet...			2015-07-15 12:...	192.168.1.121
lab1rm22.simet...			2015-07-15 12:...	192.168.1.122
lab1rm23.simet...			2015-07-15 12:...	192.168.1.123
lab1rm24.simet...			2015-07-15 12:...	192.168.1.124
lab1rm25.simet...			2015-07-15 12:...	192.168.1.125
lab1rm3.simet.lan			2015-07-15 12:...	192.168.1.103
lab1rm4.simet.lan			2015-07-15 12:...	192.168.1.104
lab1rm5.simet.lan			2015-07-15 12:...	192.168.1.105
lab1rm6.simet.lan			2015-07-15 12:...	192.168.1.106
lab1rm7.simet.lan			2015-07-15 12:...	192.168.1.107
lab1rm8.simet.lan			2015-07-15 12:...	192.168.1.108
lab1rm9.simet.lan			2015-07-15 12:...	192.168.1.109
opsi-pc.simet.lan			2015-06-08 10:...	192.168.1.84
sat140-pc.simet.l...			2015-05-20 09:...	192.168.1.7

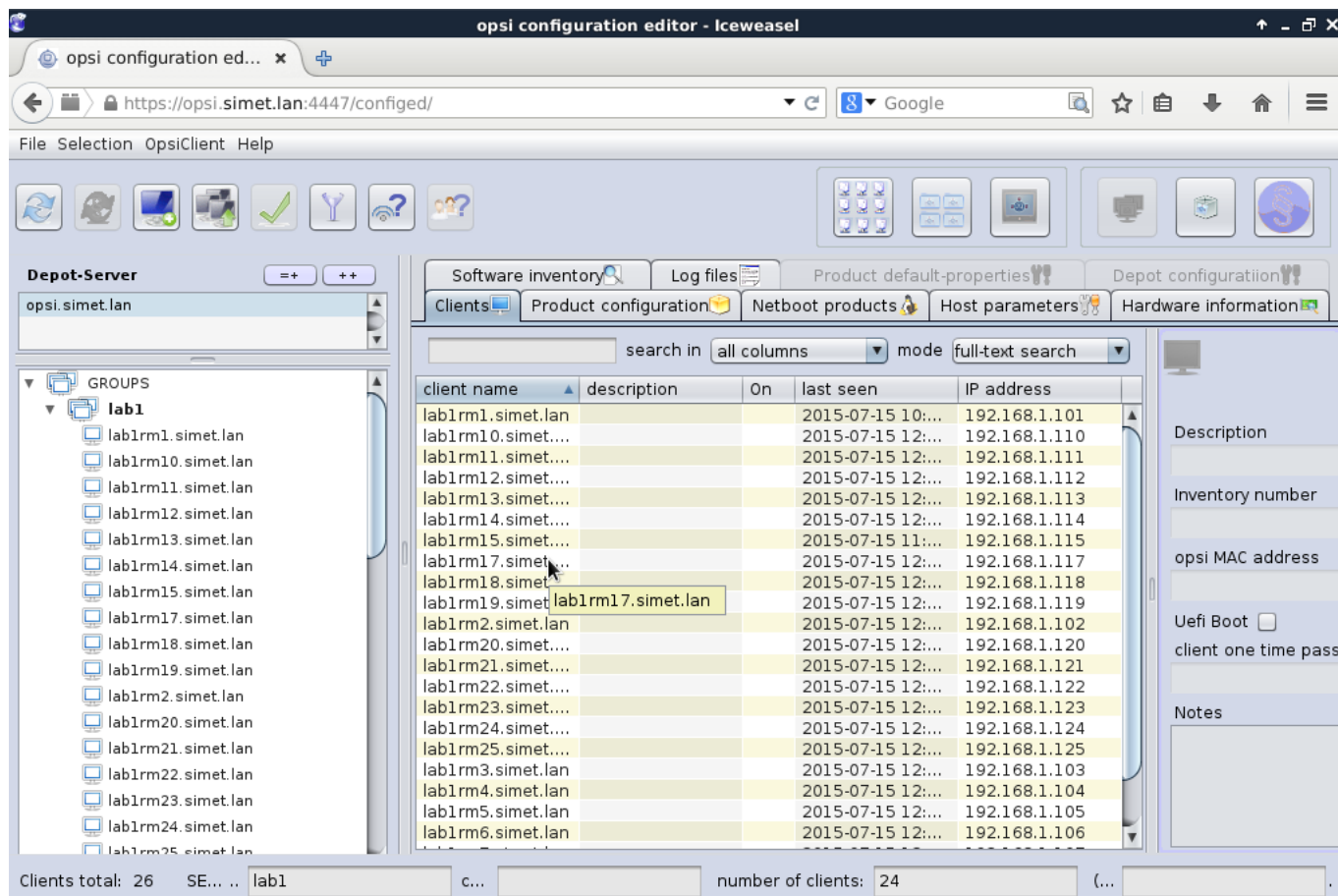
Clients total: 26 SE... c... lab1rm9.simet.lan number of clients: 1 (... opsi.simet.lan)



The screenshot shows the Opsi configuration editor interface. On the left, a tree view shows the 'lab1' group containing 24 clients. The main window displays a table of these clients with columns for client name, description, On status, last seen, and IP address. The status bar at the bottom indicates 26 total clients and 24 clients in the selected group.

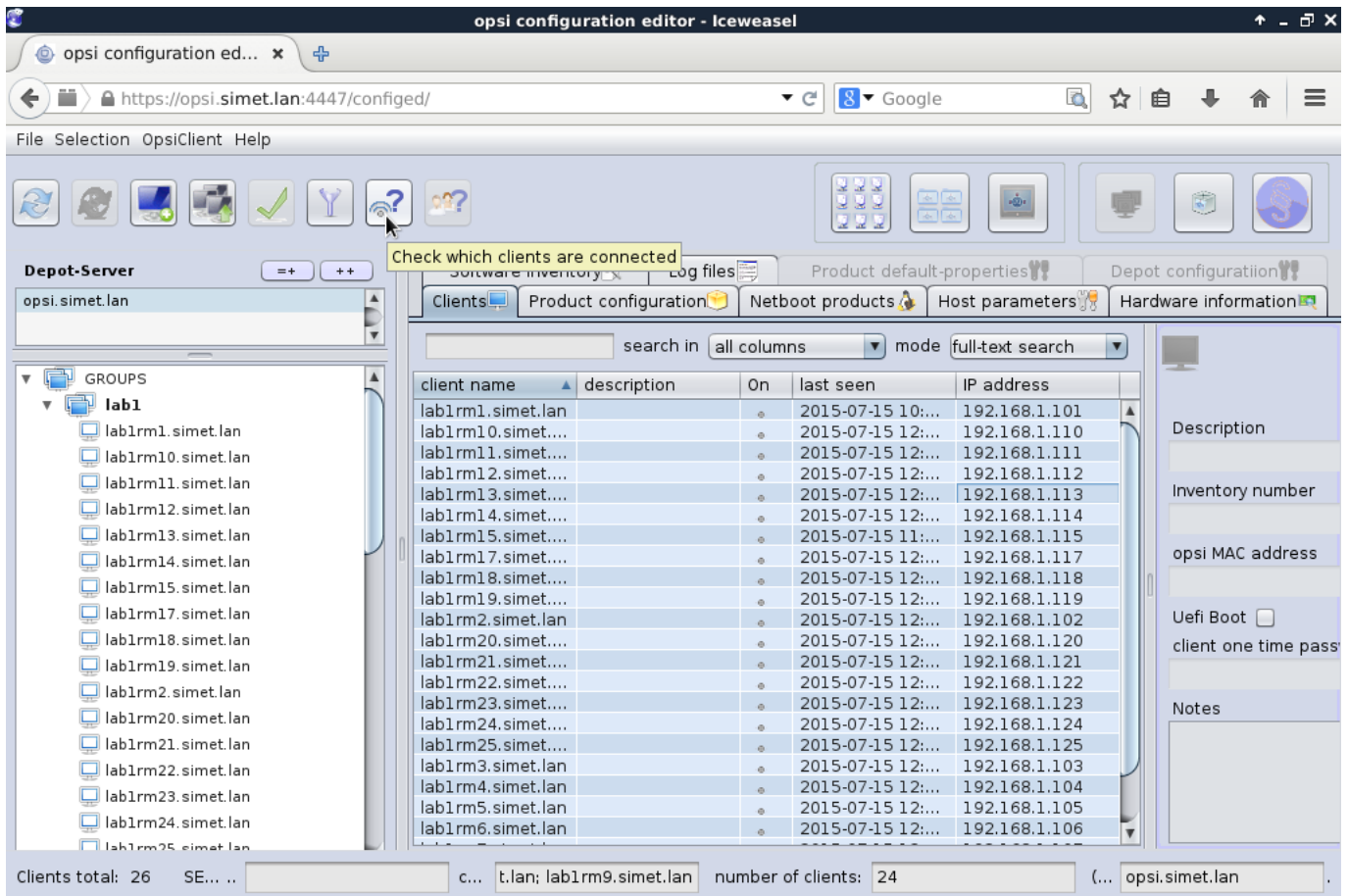
client name	description	On	last seen	IP address
lab1rm14.simet....			2015-07-15 12:...	192.168.1.114
lab1rm15.simet....			2015-07-15 11:...	192.168.1.115
lab1rm17.simet....			2015-07-15 12:...	192.168.1.117
lab1rm18.simet....			2015-07-15 12:...	192.168.1.118
lab1rm19.simet....			2015-07-15 12:...	192.168.1.119
lab1rm2.simet.lan			2015-07-15 12:...	192.168.1.102
lab1rm20.simet....			2015-07-15 12:...	192.168.1.120
lab1rm21.simet....			2015-07-15 12:...	192.168.1.121
lab1rm22.simet....			2015-07-15 12:...	192.168.1.122
lab1rm23.simet....			2015-07-15 12:...	192.168.1.123
lab1rm24.simet....			2015-07-15 12:...	192.168.1.124
lab1rm25.simet....			2015-07-15 12:...	192.168.1.125
lab1rm3.simet.lan			2015-07-15 12:...	192.168.1.103
lab1rm4.simet.lan			2015-07-15 12:...	192.168.1.104
lab1rm5.simet.lan			2015-07-15 12:...	192.168.1.105
lab1rm6.simet.lan			2015-07-15 12:...	192.168.1.106
lab1rm7.simet.lan			2015-07-15 12:...	192.168.1.107
lab1rm8.simet.lan			2015-07-15 12:...	192.168.1.108
lab1rm9.simet.lan			2015-07-15 12:...	192.168.1.109
opsi-pc.simet.lan			2015-06-08 10:...	192.168.1.84
sat140-pc.simet.l...			2015-05-20 09:...	192.168.1.7

Grupa *lab1* je formirana i možemo krenuti s "daljinskim upravljanjem" 24 klijenta.



This screenshot is similar to the previous one, but the 'lab1' group is now selected in the left-hand tree view. The table of clients remains the same, and the status bar still shows 26 total clients and 24 clients in the selected group.

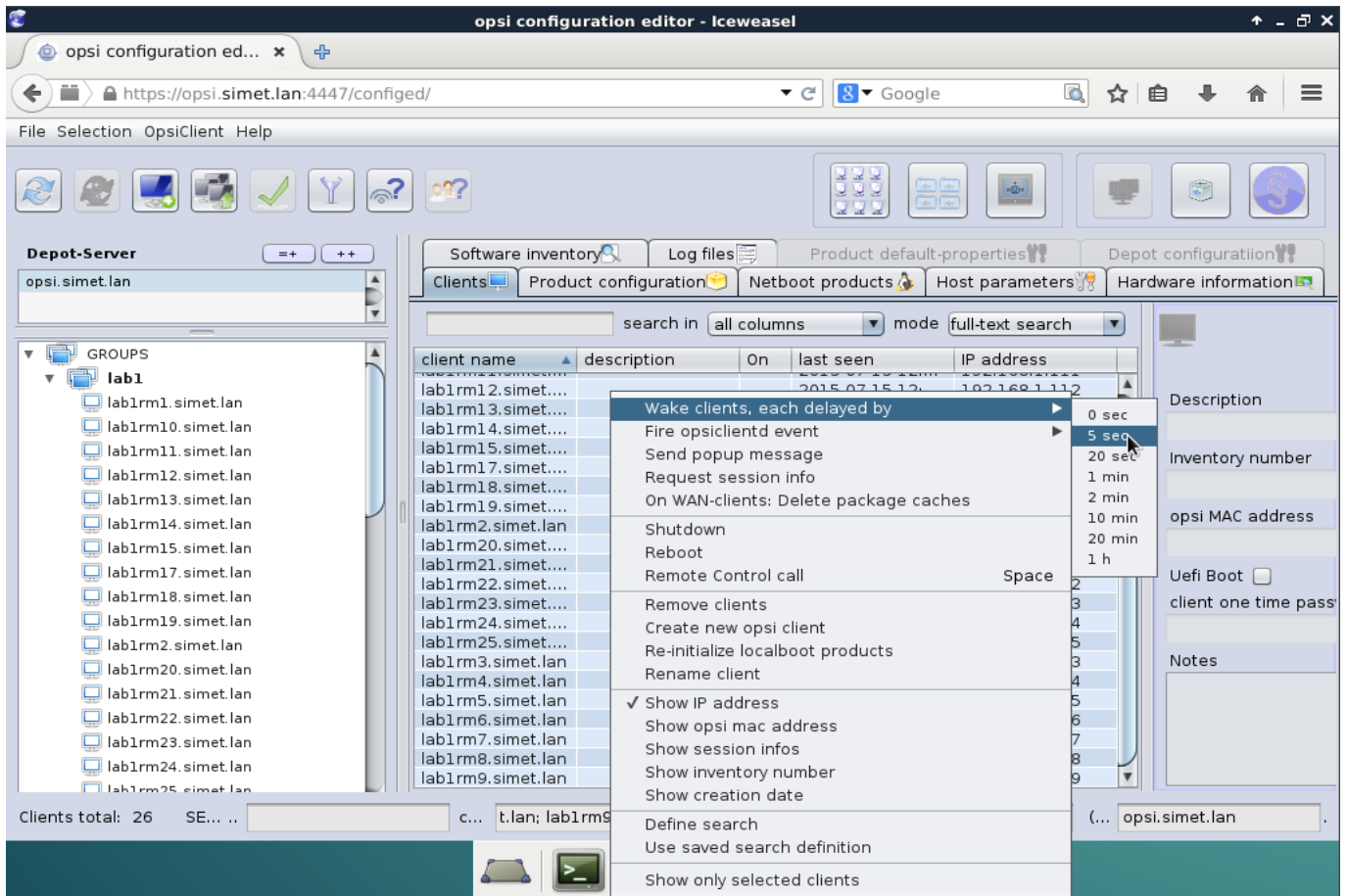
Za "buđenje preko mreže" računala moraju biti podešena u BIOS-u na *Wake On LAN* ili *Power Up On PCI Device* opciju. Nakon što smo podesili potrebne opcije BIOS-a u "On" ili "Enabled". Označimo s **CRTL+A** sve klijente iz grupe *lab1*.



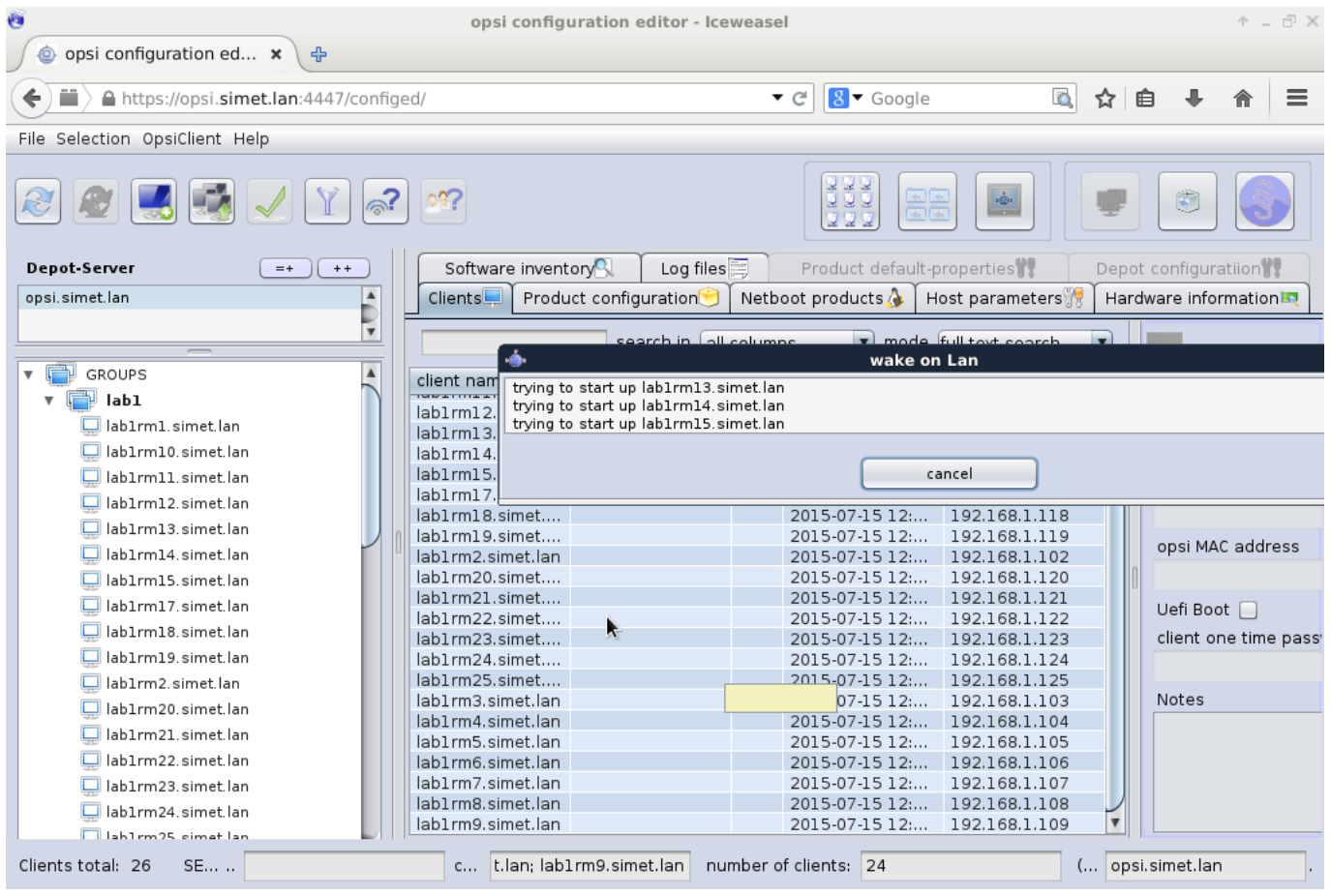
The screenshot shows the Opsiserver configuration editor interface. A tooltip points to a button with a question mark icon, labeled "Check which clients are connected". The main window displays a list of clients under the "lab1" group. The table below shows the details of these clients.

client name	description	On	last seen	IP address
lab1rm1.simet.lan		●	2015-07-15 10:...	192.168.1.101
lab1rm10.simet...		●	2015-07-15 12:...	192.168.1.110
lab1rm11.simet...		●	2015-07-15 12:...	192.168.1.111
lab1rm12.simet...		●	2015-07-15 12:...	192.168.1.112
lab1rm13.simet...		●	2015-07-15 12:...	192.168.1.113
lab1rm14.simet...		●	2015-07-15 12:...	192.168.1.114
lab1rm15.simet...		●	2015-07-15 11:...	192.168.1.115
lab1rm17.simet...		●	2015-07-15 12:...	192.168.1.117
lab1rm18.simet...		●	2015-07-15 12:...	192.168.1.118
lab1rm19.simet...		●	2015-07-15 12:...	192.168.1.119
lab1rm2.simet.lan		●	2015-07-15 12:...	192.168.1.102
lab1rm20.simet...		●	2015-07-15 12:...	192.168.1.120
lab1rm21.simet...		●	2015-07-15 12:...	192.168.1.121
lab1rm22.simet...		●	2015-07-15 12:...	192.168.1.122
lab1rm23.simet...		●	2015-07-15 12:...	192.168.1.123
lab1rm24.simet...		●	2015-07-15 12:...	192.168.1.124
lab1rm25.simet...		●	2015-07-15 12:...	192.168.1.125
lab1rm3.simet.lan		●	2015-07-15 12:...	192.168.1.103
lab1rm4.simet.lan		●	2015-07-15 12:...	192.168.1.104
lab1rm5.simet.lan		●	2015-07-15 12:...	192.168.1.105
lab1rm6.simet.lan		●	2015-07-15 12:...	192.168.1.106

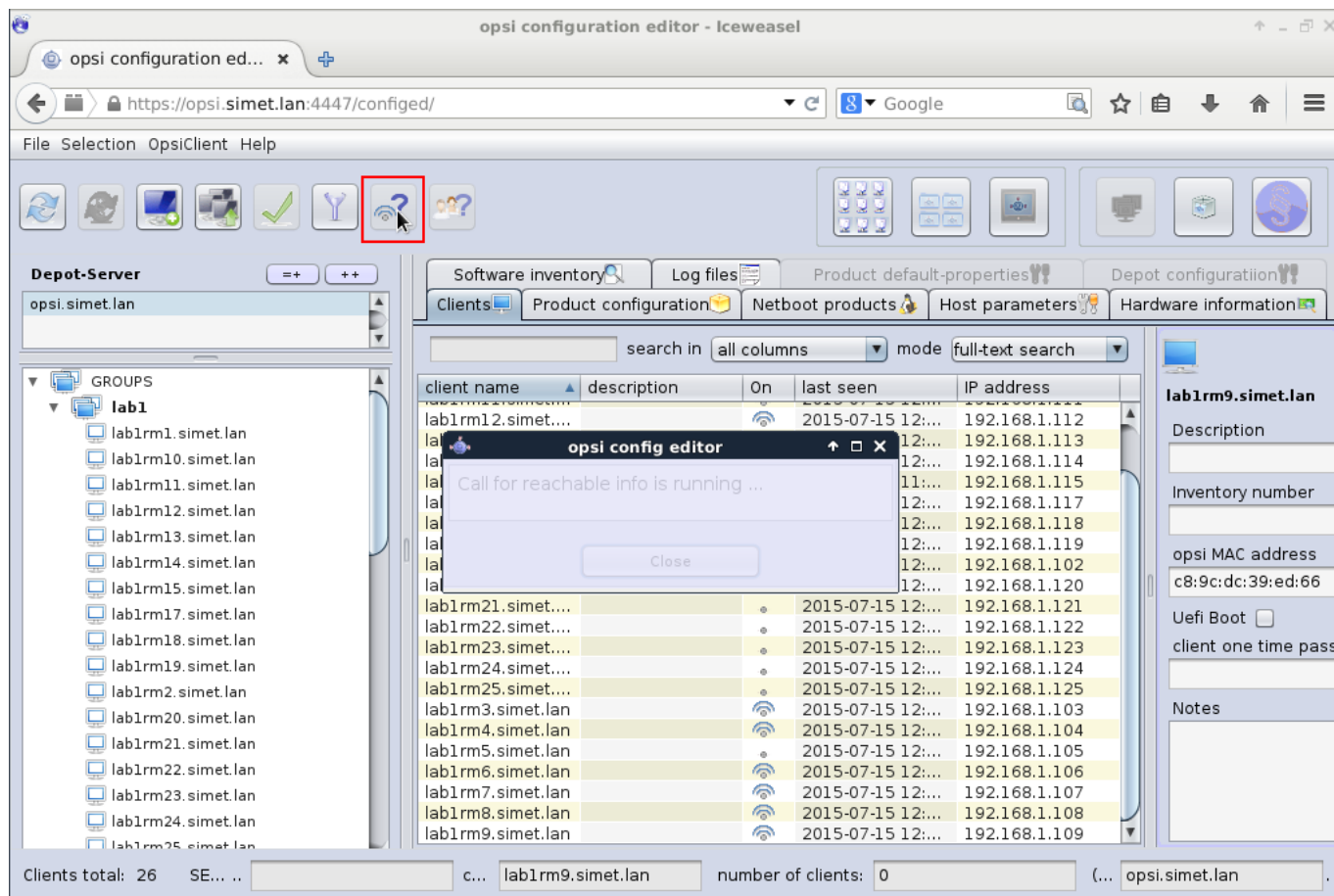
Desnim klikom miša odabiremo "buđenje" klijenata sa odmakom 5 sekundi. Vremenski odmak treba planirati zbog mogućeg strujnog preopterećenja do kojeg bi moglo doći ukoliko bi se klijenti palili istovremeno.



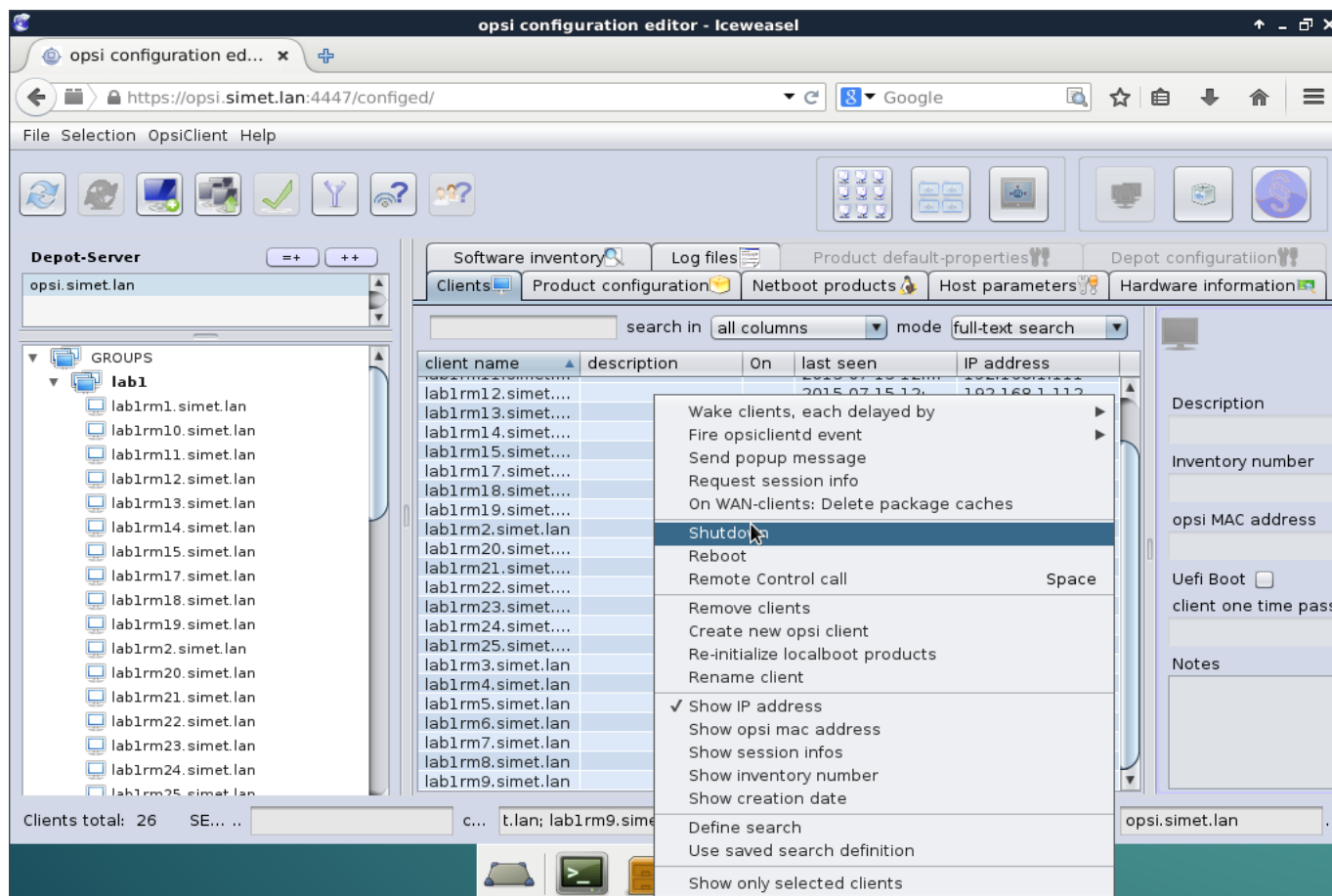
Kreće lančana reakcija. Masovno ustajanje :) Provjeru budnosti možemo pratiti opcijom "Check which clients are connected".



cp



Napokon na kraju napornog radnog dana istom metodom ugasimo cijelu učionicu jednim klikom miša. Neprocijenjivo je iskustvo kad učionica utihne za manje od 60 sekundi.



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- [7] <https://sysportal.carnet.hr./taxonomy/term/25>