

Authorization by IP address

Configuring Authorization by IP

Authorization by IP implies that an authorized user will gain access to Internet resources without entering a username and password, but simply by initiating a connection to these resources.

You can also authorize network devices (such as CCTV cameras, network printers, etc.) that are located in broadcast domains other than SafeUTM, and that require Internet access.

If the device is a router and SNAT is enabled on it, then when its external IP is authorized in UTM, all users behind this router will gain Internet access.

Users who are behind the router in the local UTM network cannot be authorized using the IP address - MAC address bind, since the router does not handle L2-level traffic.

If authorization by IP address is configured, this IP will not be issued by **DHCP**.

To authorize a user by IP address:

1. **Create** a user that will be authorized by IP in SafeUTM or **import** a user from Active Directory.
2. Go to **Users -> Authorization -> IP and MAC authorization**.
3. Create a binding rule **IP address <--> User**, as shown in the screenshot.

Authorization

General

IP and MAC authorization

Subnet au

Adding an authorization rule

User
Jane Smith ▼

Specify IP only, MAC only, or both.

IP
192.168.150.50

Get MAC by IP

MAC

☐ Permanently authorized

Comment

Save

Cancel

The user's IP address is to be used when creating a session. The computer/device's IP address must match the one specified in the rule.

If the user is network equipment (video cameras, servers, etc.), it is recommended to select **Permanently Authorized**, in which case the user session will be created after the UTM is turned on, and the network equipment does not need to make a web request. For such equipment, it is recommended to configure a static IP address or DHCP with an IP address binding.

This is required, for example, for resources **published via DNAT**.

After the user makes a web request, a session with the IP authorization type will automatically be created on UTM in **Monitoring -> Authorized Users**.

Authorized users



1 authorized session:

Filters



Status	Login	Name ↑	IP-address	MAC address	Connection type	Connection date and time	Online time	Operations
✓	schrute	Dwight Schrute	10.200.1.182	08:00:27:31:89:81	IP + MAC (permanent)	Aug 30, 2022, 11:56 AM	1 day	✕

For sessions with an IP authorization type, the **MAC address** field is not filled in, because, with this type of authorization, there is already an IP address required to create an authorization session.

You can use device search to automatically create users when they try to access the Internet. To do this, see the [Netscan](#) article.

Only one device can be authorized under one user by IP address (simultaneously with this type of authorization, two more devices can be authorized under one user by any other authorization method).

Adding Group of Devices with Authorization by IP

You can add users from a range of IP addresses (for example, a network distributed by access points to wireless devices over Wi-Fi). To do this, you need to follow these steps:

1. Create a new group in the user tree.
2. Select a group from the user tree to which you want to add devices.
3. In the **General** tab, click **Create Users**.

A window opens with the settings of the users created. Fill in the following fields:

1. **Name Prefix.** Users will be created with names of the type "User IP address".
2. **Login prefix.** Users will be created with logins of the type "user_ip-address".
3. **IP addresses of the first and last users.**

General

Active Directory

Quota

Title

Found in a group

Operations

Create users to group "Accounting"

Name's prefix

Guest

Users with a name like "User 192.168.0.1" will be created

Login's prefix

Guest

Users will be created with a login of the form
"user_192.168.0.1"

First user's IP-address

192.168.150.110

Last user's IP-address

192.168.150.115

Save

Cancel

Search

▼ All

📁 + 👤

▼ Accounting

📁 + 👤 🗑️

▸ Head

📁 + 👤 🗑️

▸ Sales

📁 + 👤 🗑️

👤 Guest 192.168.150.110

👤 Guest 192.168.150.111

👤 Guest 192.168.150.112

👤 Guest 192.168.150.113

👤 Guest 192.168.150.114

🗑️

👤 Guest 192.168.150.115

▸ Developers

📁 + 👤 🗑️

If some IP addresses from the range are already used by other SafeUTM users, they will be skipped during creation, and as a result, fewer users will be created than addresses in the range.

Users will be created with the settings of the created group and an IP address from the range. In addition to the user tree, in the section **Users -> Authorization -> IP and MAC authorization** for each user, a binding rule **IP address <--> User** will be created automatically, as shown in the

screenshot:

General

IP and MAC authorization

Subnet authorization

+ Add

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IP address	MAC address ↑	User	Always logged	Comment	Operations
192.168.150.110	–	Guest 192.168.150.110	<input type="checkbox"/>	Created automatically by range	
192.168.150.111	–	Guest 192.168.150.111	<input type="checkbox"/>	Created automatically by range	
192.168.150.112	–	Guest 192.168.150.112	<input type="checkbox"/>	Created automatically by range	
192.168.150.113	–	Guest 192.168.150.113	<input type="checkbox"/>	Created automatically by range	
192.168.150.114	–	Guest 192.168.150.114	<input type="checkbox"/>	Created automatically by range	
192.168.150.115	–	Guest 192.168.150.115	<input type="checkbox"/>	Created automatically by range	

If you use IP authorization with static binding in DHCP, it is preferable to transfer such rules to **authorization by MAC address**.

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