

# BGP

Configuring BGP to exchange information about the availability of networks.

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SafeUTM 13 implements support for BGP (Border Gateway Protocol), which is the main dynamic routing protocol used on the Internet.

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## Setting up your autonomous system

1. Enter your AS number in the **AS Number** field and click **Save**:



Router ID ..... absent

Assigned automatically after BGP is enabled.

AS number

Integer from 1 to 4294967294



2. Move the switch of the **BGP** section to the **enabled** position;
  3. SafeUTM will populate the **Router ID** field automatically if the BGP section switch is on.
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## Configuring BGP neighbors

1. To add a BGP neighbor, click **Add** in the upper right corner;
2. Fill in the following fields:

- **Title** - any value;
- **IP address** - BGP neighbor IP address;
- **AS number** - Neighbor's BGP AS number;
- **Incoming networks** - a filter in which you need to select the network from which you want to receive information. If the **Any** object is selected, then filtering will be disabled and all networks from the BGP neighbor will be accepted. Preset filters object **Default route** matches filter **0.0.0.0/0**;

- **Announced networks** - a filter in which you need to select the network about which you want to send information. If **Any** object is selected, then filtering will be disabled and information about all known UTM routes will be transmitted (redistribute static, connected, OSPF ). Preset filters object **Default route** matches filter **0.0.0.0/0**;
- **AS-Path Prepend** - the higher the value, the less priority the channel becomes;
- **Local Preference** - determines the path priority for traffic to exit. The larger the value, the less priority the channel becomes;
- **MED** - determines the path priority for traffic ingress. The lower the value, the more priority the path.

### Configuring BGP neighbor

BGP neighbor

Title

IP address

AS number

Integer from 1 to 4294967294

### Route filtering

The filtering specifies the subnets that are allowed to be transmitted. If "Any" is specified, all routes are allowed. If "0.0.0.0/0" is specified in advertised network the route is advertised to neighbors.

Incoming networks

Announced networks

### Additional settings

The fields in this section are optional.

AS-Path Prepend

Number of AS numbers to add, integer from 1 to 100

Local Preference

Integer from 1 to 4294967294

MED

Integer from 1 to 4294967294

For **Incoming networks** and **Announced networks**, the **Any** object cannot be set simultaneously with other filters.

If there is no required object for filtering, then you can create it by selecting **Create a new object** in the **Incoming networks** or **Announced networks** field:

- **Title** - any value;

- **Value** - subnet value in the format: subnet/subnet mask, for example 192.168.100.0/24.

### Adding an object

Type

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