

Droša bezvadu maršrutētāja konfigurācija – DD-WRT v24

Šajā instrukcijā parādītas svarīgākās lietas, kas jāuzstāda vai jānomaina bezvadu maršrutētāja konfigurācijā ar DD-WRT v24-SP2 (standart) programmnodrošinājumu, lai tā izmantošanas drošības līmenis būtu pietiekams vairākumā gadījumu.

1. Apmeklējam DD-WRT atbalsta centra mājas lapu (<http://www.dd-wrt.com/site/support/router-database>), pārlicināmies vai Jūsu bezvadu maršrutētājam ir pieejama jauna aparātprogrammatūra (*firmware*). Ja ir pieejama – lejupielādējam to un, atbilstoši DD-WRT instalācijas norādījumiem (<http://www.dd-wrt.com/wiki/index.php/Installation>), veicam programmatūras atjaunošanu:

The screenshot displays the DD-WRT control panel interface. At the top, the status bar shows 'Firmware: DD-WRT v24-sp2 (10/10/09) std', 'Time: 00:05:01 up 5 min, load average: 0.35, 0.59, 0.25', and 'WAN IP: 0.0.0.0'. The navigation menu includes 'Setup', 'Wireless', 'Services', 'Security', 'Access Restrictions', 'NAT / QoS', 'Administration', and 'Status'. The 'Administration' menu is expanded, showing 'Management', 'Keep Alive', 'Commands', 'WOL', 'Factory Defaults', 'Firmware Upgrade', and 'Backup'. The 'Firmware Upgrade' sub-menu is selected, displaying the 'Firmware Management' section. This section includes a dropdown menu for 'After flashing, reset to' (set to 'Don't reset'), a 'Please select a file to upgrade' prompt, and a 'Choose File' button. A 'WARNING' box states: 'Upgrading firmware may take a few minutes. Do not turn off the power or press the reset button!'. At the bottom, there is an 'Upgrade' button. Red boxes and numbers 1-5 highlight these key elements: 1. Administration menu, 2. Firmware Upgrade sub-menu, 3. Firmware Upgrade section header, 4. Choose File button, 5. Upgrade button.

2. Nomainām maršrutētāja lietotāja vārdu uz sev zināmu (bez mīkstinājuma zīmēm, garumzīmēm un speciālajiem simboliem) un administrēšanas paroli uz jaunu un sarežģītu (vismaz 12-14 simboli – lielle, mazie burti un cipari).

The screenshot displays the dd-wrt.com control panel interface. At the top right, system information is shown: Firmware: DD-WRT v24-sp2 (10/10/09) std, Time: 00:06:47 up 6 min, load average: 0.14, 0.41, 0.22, and WAN IP: 0.0.0.0. The main navigation bar includes tabs for Setup, Wireless, Services, Security, Access Restrictions, NAT / QoS, Administration, and Status. The Administration tab is selected and highlighted with a red box and labeled '1'. Below this, a sub-menu contains 'Management', 'Keep Alive', 'Commands', 'WOL', 'Factory Defaults', 'Firmware Upgrade', and 'Backup'. The 'Management' sub-tab is selected and highlighted with a red box and labeled '2'. The 'Router Management' section is active, showing the 'Router Password' configuration area. This area contains three input fields: 'Router Username', 'Router Password', and 'Re-enter to confirm', all of which are highlighted with a red box and labeled '3'. Below the password fields is the 'Web Access' section, which includes options for Protocol (HTTP checked, HTTPS unchecked), Auto-Refresh (in seconds) set to 3, Enable Info Site (radio buttons for Enable and Disable), Info Site Password Protection (checkbox for Enabled), and Info Site MAC Masking (radio buttons for Enable and Disable). At the bottom of the page, a grey bar contains four buttons: 'Save', 'Apply Settings', 'Cancel Changes', and 'Reboot Router'. The 'Save' button is highlighted with a red box and labeled '4'.

3. Uzstādām maršrutētāja laika zonu. Automātiskai laika sinhronizācijai norādam NTP serveri.

Firmware: DD-WRT v24-sp2 (10/10/09) std
Time: 00:09:54 up 9 min, load average: 0.02, 0.23, 0.17
WAN IP: 0.0.0.0

Setup | Wireless | Services | Security | Access Restrictions | NAT / QoS | Administration | Status

Basic Setup | DDNS | MAC Address Clone | Advanced Routing | VLANs | Networking | EoIP Tunnel

WAN Setup

WAN Connection Type

Connection Type: Automatic Configuration - DHCP

STP: Enable Disable

Optional Settings

Router Name: MansMarsrutizators

Host Name:

Domain Name:

MTU: Auto | 1500

Network Setup

Router IP

Local IP Address: 192 . 168 . 1 . 1

Subnet Mask: 255 . 255 . 255 . 0

Gateway: 0 . 0 . 0 . 0

Local DNS: 0 . 0 . 0 . 0

Network Address Server Settings (DHCP)

DHCP Type: DHCP Server

DHCP Server: Enable Disable

Start IP Address: 192.168.1. 100

Maximum DHCP Users: 50

Client Lease Time: 1440 minutes

Static DNS 1: 0 . 0 . 0 . 0

Static DNS 2: 0 . 0 . 0 . 0

Static DNS 3: 0 . 0 . 0 . 0

WINS: 0 . 0 . 0 . 0

Use DNSMasq for DHCP:

Use DNSMasq for DNS:

DHCP-Authoritative:

Time Settings

NTP Client: Enable Disable

Time Zone: UTC+02:00

Summer Time (DST): last Sun Mar - last Sun Oct

Server IP/Name: lv.pool.ntp.org

Help more...

Automatic Configuration - DHCP:
This setting is most commonly used by Cable operators.

Host Name:
Enter the host name provided by your ISP.

Domain Name:
Enter the domain name provided by your ISP.

Local IP Address:
This is the address of the router.

Subnet Mask:
This is the subnet mask of the router.

DHCP Server:
Allows the router to manage your IP addresses.

Start IP Address:
The address you would like to start with.

Maximum DHCP Users:
You may limit the number of addresses your router hands out. 0 means only predefined static leases will be handed out.

Time Settings:
Choose the time zone you are in and Summer Time (DST) period. The router can use local time or UTC time.

Save | Apply Settings | Cancel Changes

4. Konfigurējam bezvadu tīkla parametrus.

The screenshot shows the dd-wrt.com control panel for the 'Wireless' section. The 'Basic Settings' tab is selected. The configuration is for 'Physical Interface w10'. The 'Wireless Mode' is set to 'AP'. The 'Wireless Network Name (SSID)' is 'MansBezvaduTikls'. The 'Wireless Channel' is '13 - 2.472 GHz'. The 'Wireless SSID Broadcast' is 'Enable'. The 'Sensitivity Range (ACK Timing)' is '2000'. The 'Network Configuration' is 'Bridged'. The 'Save' button is highlighted with a red box and labeled '4'. The 'Wireless Network Name (SSID)' field is highlighted with a red box and labeled '3'. The 'Wireless Mode' dropdown is labeled '2'. The 'Wireless Physical Interface w10' header is labeled '1'. A 'Help' section on the right provides information about 'Wireless Network Mode' and 'Sensitivity Range'.

dd-wrt.com ... control panel
Firmware: DD-WRT v24-sp2 (10/10/09) std
Time: 00:17:28 up 17 min, load average: 0.12, 0.18, 0.16
WAN IP: 0.0.0.0

Setup **Wireless** Services Security Access Restrictions NAT / QoS Administration Status

Basic Settings Radius Wireless Security MAC Filter Advanced Settings WDS

Wireless Physical Interface w10 1

Physical Interface w10 - SSID [Honey] HWAddr [00:14:BF:04:5D:BC]

Wireless Mode 2 AP

Wireless Network Mode Mixed

Wireless Network Name (SSID) 3 MansBezvaduTikls

Wireless Channel 13 - 2.472 GHz

Wireless SSID Broadcast Enable Disable

Sensitivity Range (ACK Timing) 2000 (Default: 2000 meters)

Network Configuration Unbridged Bridged

Virtual Interfaces

Add

Save 4 Apply Settings Cancel Changes

Help more...

Wireless Network Mode:
If you wish to exclude Wireless-G clients, choose *B-Only* mode. If you would like to disable wireless access, choose *Disable*.
Note : when changing wireless mode, some advanced parameters are susceptible to be modified ("Afterburner", "Basic Rate" or "Frame Burst").

Sensitivity Range:
Adjusts the ack timing. 0 disables ack timing completely for broadcom firmwares. On Atheros based firmwares it will turn into auto ack timing mode

5. Bezvadu tīkla piekļuvi nodrošinām, izmantojot WPA2 šifrēšanu. Izvēlamies AES šifrēšanas algoritmu un uzstādām garu (vismaz 12 simbolu) paroli. Vēlams izmantot arī lielos, mazos burtus un ciparus.

The screenshot shows the dd-wrt.com control panel for the 'Wireless Security' section. The 'Wireless Security' tab is selected. The configuration is for 'Physical Interface w10'. The 'Security Mode' is 'WPA2 Personal'. The 'WPA Algorithms' is 'AES'. The 'WPA Shared Key' is 'GaraBezvaduParoleArCipariem12345'. The 'Key Renewal Interval (in seconds)' is '3600'. The 'Save' button is highlighted with a red box and labeled '4'. The 'WPA Shared Key' field is highlighted with a red box and labeled '3'. The 'Wireless Security' tab is labeled '2'. The 'Wireless Security w10' header is labeled '1'. A 'Help' section on the right provides information about 'Security Mode'.

dd-wrt.com ... control panel
Firmware: DD-WRT v24-sp2 (10/10/09) std
Time: 00:19:04 up 19 min, load average: 0.02, 0.13, 0.14
WAN IP: 0.0.0.0

Setup **Wireless** Services Security Access Restrictions NAT / QoS Administration Status

Basic Settings Radius **Wireless Security** MAC Filter Advanced Settings WDS

Wireless Security w10 1

Physical Interface w10 SSID [Honey] HWAddr [00:14:BF:04:5D:BC]

Security Mode 2 WPA2 Personal

WPA Algorithms AES

WPA Shared Key 3 GaraBezvaduParoleArCipariem12345 Unmask

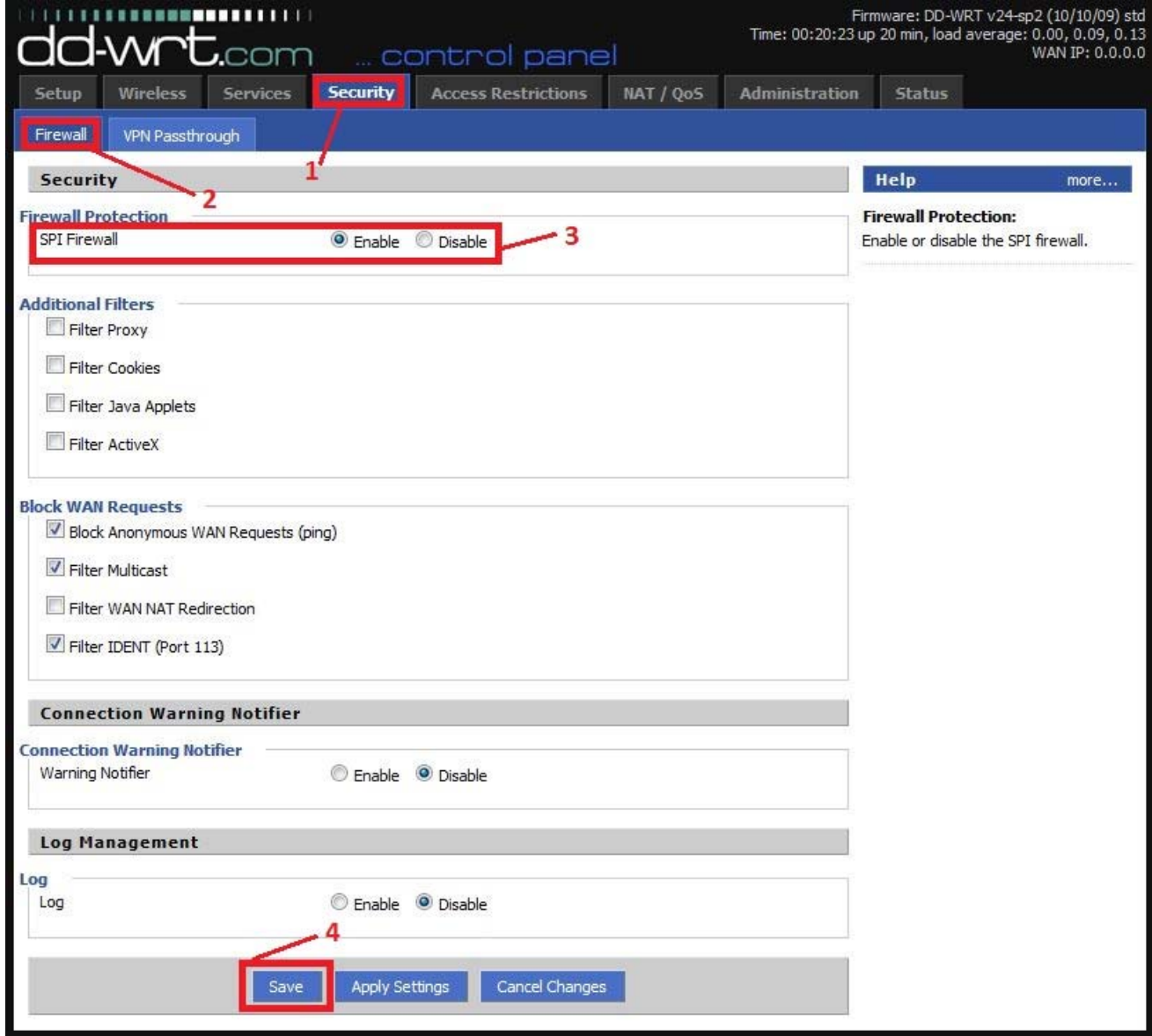
Key Renewal Interval (in seconds) 3600 (Default: 3600, Range: 1 - 99999)

Save 4 Apply Settings

Help more...

Security Mode:
You may choose from Disable, WEP, WPA Personal, WPA Enterprise, or RADIUS. All devices on your network must use the same security mode.

6. Ieslēdzam SPI ugunsūmūri (DD-WRT noklusētajos uzstādījumos tas ir ieslēgts).



7. Saglabājam izveidoto konfigurāciju, lai varētu ātri atjaunot maršrutētāja darbību bojājuma gadījumā.

