

???????? ????????? ?????????? ?????????????? ?????????????? DD-WRT

????????? DD-WRT ? DIR-300

?????, ?? ????????????? TFTP, ????? ????????????? ?????? DD-WRT ????? crash mode (?????? ?????????? ?????? ??????). ??? ?????????? ?????????, ????? ?????????? ? ?????????? ????? TFTP.

???? ???-?? ????? ?? ???... ?? ??????, ????? ?????? ?????????? ?????????? ?????? ??????. ?????? ?????????????? ????????? ? ?????????????? ?????? ???? ?? ---20.81 ????? ?? ---1.1 ?? ????? 9000 ? ??? ?????????? ? ????? ?????, ?? ?????????? ??????????

????????????????? ??????????:

?????? ????? C:\DIR300 (????????), ????? ????

- ????? **ap61.ram, ap61.rom ? linux.bin** : ?????????? ?? ? ?????? dd-wrt.com, ?? ?????????? ? ?????? ? ?????????? ?? DIR-300.

- **tftp-???????**: ?? ?????? ?????????? ?????? ?; ?????????? zip-???? ? ?????????? ?????????? ? ?????? ?? ?????? ??????

- telnet-?????, ? ?????????? ?????????? ?????????????? ?????????? PuTTY : ?????????? ?? ? ?????? www.putty.org ?????????????????? ????????? PuTTY : ?????????? ?????? ?????? ???? ?? ?????????? ????? PuTTY.

????????? ?????? «Change Setings...»

? ?????? «PuTTY Reconfiguration» ?????????? ?? ?????????? «Close window on exit» ?????????? «Never».

????????? ?????? «Apply» («????????????»)

1. C????? ?? ?????? IP 192.168.20.80/mask 255.255.255.0
2. ??????? ?????? ? WAN ???? (!) (INTERNET ?? ?? ??????????)

2.1 ?????????? ?????? "RESET"

2.2 ?????????? ??????? ?????????.

2.3 ?????? 30 ?????? ?????????? "RESET"

3. ?????????????? ? ?????????? ?????????? ?? 192.168.20.81 ?? ????? 9000

4. ?????????? ? ?????????? ???? ?? ??????? ? ?????? ???? ?????????????? ? ????????? 1 ?????????? ?????????? ??????

5. ??????? ?????? ??????? ?????????? ??????????

5. ?????? ??????? ?????????????? ?????????? ?????????? ? ?????? ?????? ctrl + c

6. ??????? ctrl+C ? ?????? ??? ???? ? ?? ??????????????

6.1 ?????? ?????????????????? ?????????? ??????????:

6.1.1 ?????????? ? ?????? C:\????? xxx.bat, ?????????????? ??????????????:

```

:start
ping 192.168.20.81 -n 2 -w 1 > NULL
IF ERRORLEVEL 1 goto start
break

```

putty.exe telnet://192.168.20.81:9000 -m redboot.txt

6.1.2 ?????? ?? ? ???? redboot.txt, ?????????? ??????????:

????? ? ? ?????? ^C

6.1.3 ?????? ? ?????? C:\ putty.exe [1]

7. ????????? ??????. ?????? ?????? ?????????? 192.168.20.81 ?? ?? ? ??, ??? ? ? ?????? ????? ? ?????
????????? putty , ?????? ?????? ? ?????? ?????????? ?????? redboot.txt

8. ? ??? ???? ???? ?????? 2 ?????? - ^C. ?? ????????? ??????? ? ?????? ??? putty ? ?????????????
redboot>

9. ??????:

10.????????? tftp server (?? ???? ? ?????????? ?????? ? ?????? ?????????? ?? ?????? ? ?????????? ??????
????????? ? ?????? c:/dir300/ ? ??????????. ?? ?????? ?????? TFTP Server ? ?????????? ?????? ?? ?????? ??????
(C:\DIR300)

????????? ? ????????????????? ????????????? ?????????????

11. ????? ? ?????? ??????

RedBoot>load ap61.ram
Using default protocol (TFTP)
Entry point: 0x800410bc, address range: 0x80041000-0x800680d8
RedBoot> go

12. ??? ?????-????? ???? ???? ?????????? ? ?? ??????????. ??????????: ?? ?????????????????
???????????????? ? ? ????????????? ? ? ??????????

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13. ????????????? ?????? ?????? ? ?????? WAN ? ?????? LAN1 ?????????????????.

?????: ?? ?????? ????????????? ????????????? ?????? ?? ????????????? ?????????? ?????? ? ?? ?????????????
?????????

???????????? IP-????? 192.168.1.2 ? ?????? 255.255.225.0.
???????????????? ?????????? ? ?????? 192.168.1.1 ? ?????? 9000.

????? ?????? ???? ?????????????, ?????????? ?????????? ????:

14. ? ??????:
DD-WRT>fconfig -i
Initialize non-volatile configuration - continue (y/n)?y
Run script at boot: false
Use BOOTP for network configuration: true
Default server IP address:

Console baud rate: 9600
GDB connection port: 9000
Force console for special debug messages: false
Network debug at boot time: false
Update RedBoot non-volatile configuration - continue (y/n)?y

? Erase from 0xbffe0000-0xbfff0000: .
? Program from 0x80ff0000-0x81000000 at 0xbffe0000: .

DD-WRT> **fis init**
About to initialize [format] FLASH image system - continue (y/n)? y

- ◆ ◇ Initialize FLASH Image System

? Erase from 0xbffe0000-0xbfff0000: .
? Program from 0x807f0000-0x80800000 at 0xbffe0000: .

DD-WRT> **ip_address -h 192.168.1.2**
Default server: 192.168.1.23

DD-WRT> **load -r -b % {FREEMEMLO} ap61.rom**
Using default protocol (TFTP)
Raw file loaded 0x80080000-0x800a8717, assumed entry at 0x80080000

DD-WRT> **fis create -l 0x30000 -e 0xbfc00000 RedBoot**
An image named ?RedBoot? exists - continue (y/n)? y
? Erase from 0xbfc00000-0xbfc30000: ?
? Program from 0x80080000-0x800a8718 at 0xbfc00000: ?
? Erase from 0xbffe0000-0xbfff0000: .
? Program from 0x807f0000-0x80800000 at 0xbffe0000: .

DD-WRT> **reset**

???? ???? ? ???? ?????????? ?????????????? ? ?????? ??????????. ????? ?????????????? ?????????? ? ??????
192.168.1.1 ? ????? 9000 ????? ???? , ?? ?????????????? ?????????????????? ? ?????? ?????? ?????? ?????? (?? ??
????? ?????????? 30 ??????).

????????? ?????? ??????????

15 .

?? ? ? ?????????? ? ? ? ?????????? ?????????? ?????????????????? ? ? ?????????????? ?????????? ?????? ? ? ??????
????????????? ?????????? ???? ??????!

????????? fis create ?????????????? ?????????????? ?????? , ?????????????? ?????????? ? ? ?????????????? ??????????

DD-WRT> **ip_address -h 192.168.1.2**
IP: 192.168.1.1/255.255.255.0, Gateway: 0.0.0.0
Default server: 192.168.1.2

DD-WRT> **fis init**

About to initialize [format] FLASH image system - continue (y/n)? **y**

- ◆ Initialize FLASH Image System

? Erase from 0xbfc30000-0xbffe0000: ??????????????????..

? Erase from 0xbffe0000-0xbfff0000: .

? Program from 0x80ff0000-0x81000000 at 0xbffe0000: .

DD-WRT> **load -r -b 0x80041000 linux.bin**

Using default protocol (TFTP)

Raw file loaded 0x80041000-0x803cffff, assumed entry at 0x80041000

DD-WRT> **fis create linux**

? Erase from 0xbfc30000-0xbffbf000: ??????????????????..

? Program from 0x80041000-0x803d0000 at 0xbfc30000: ??????????????????..

? Erase from 0xbffe0000-0xbfff0000: .

? Program from 0x80ff0000-0x81000000 at 0xbffe0000: .

DD-WRT> **fconfig boot_script true**

boot_script: Setting to true

Update RedBoot non-volatile configuration - continue (y/n)? **y**

? Erase from 0xbffe0000-0xbfff0000: .

? Program from 0x80ff0000-0x81000000 at 0xbffe0000: .

DD-WRT> **fconfig boot_script_timeout 3**

boot_script_timeout: Setting to 3

Update RedBoot non-volatile configuration - continue (y/n)? **y**

? Erase from 0xbffe0000-0xbfff0000: .

? Program from 0x80ff0000-0x81000000 at 0xbffe0000: .

DD-WRT> **fconfig bootp false**

bootp: Setting to false

Update RedBoot non-volatile configuration - continue (y/n)? **y**

? Erase from 0xbffe0000-0xbfff0000: .

? Program from 0x80ff0000-0x81000000 at 0xbffe0000: .

DD-WRT> **fconfig**

Run script at boot: true

Boot script:

.. fis load -l vmlinux.bin.17

.. exec

Enter script, terminate with empty line

>> **fis load -l linux**

>> **exec**

>>

Boot script timeout (1000ms resolution): 3

Use BOOTP for network configuration: false

Default server IP address:

Console baud rate: 9600
GDB connection port: 9000
Force console for special debug messages: false
Network debug at boot time: false
Update RedBoot non-volatile configuration - continue (y/n)? y
? Erase from 0xbffe0000-0xbfff0000: .
? Program from 0x80ff0000-0x81000000 at 0xbffe0000: .

DD-WRT> ip_address -h 192.168.1.1

DD-WRT> reset

????? ?????????????? ? ??????? ?????????????? ?? ????? ?????? ?????????????? ? ?? ?????????? ?? ????? ???????
? ??????? ?????? ??? n-????? (? ???? ??? ?????? ?? <5 ???).
????? ?????????? ?????????? WLAN ? ???? ?????????!

????? ?????????????? ?????????? ?? 192.168.1.1
?? ?????????????? ? ?????? ?? ?????????? - «root» ? «admin» ?????????????????? (?? ???????).

?????????: ??? ?? ?????????????? ?? ?????? ?????????? IP-????? ?? ?????? ? ?? ??????????????. ??? ??????????
?????? ? DD-WRT. ?????? ?????? ?? ??????????, ?????????? ?????????? ??????

1. ?????????? ??????? ??????, ?????????????? ?????? ? DIR-300.
2. ?????????????????? ?????? ? ?????????????????? ? ?????????? ?????????? ?? ??????????
3. ?????????????? ??????? ??????.

?????????: ??? ?? ?????? ?????????? ?????????? «Run script on boot» ? false ?? true, ?????????? ??????????
????????? ?????? ?????????? fcofig:

fconfig boot_script true

????????????????? ?? ?????????? ????????????

????????????? ??? DD-WRT v24PreSP2 ?? ?????? ?????????? ?????????? ?????? ?????????? ?? 14 ?????? 09 ??
????????? ?? ?????????????? ??????

ap61.ram - ?????????? ap61.rom - ?????? ?????????????? ?? ?????? ? ?????????????? linux.bin - ?????????????????? ??????
(?????? ?? ??? ? ???? ??????????) tftpsrv.zip - TFTP ??????

?????? ?? ?????? ?? ?????? ?? ?????????????? ? ?????????????? ?????????????? ?????? ?????????????? ??????????????
????????????? ?? ?????? ?? ??????????

DD-WRT v24 RC5

????????????? ?? ??????????

DD-WRT v24 SP1

????????_DIR-300

?? ??????? ?????????? ?????????? ?? ??? ?????????? ??????????

????? DD-WRT v24PreSP2 - ?? ??? ? ??? ?????????? ?????????????, ?? ? ?? ????????? ?????????
???????????? ?????????? ? ?????????? ?????????????????????, ?????????? ?????????????? ?? ??????????
???????????? ? ??????????

????????????????? ?????????????? ??????????????

????????? ?????????????? ?????? ?????????? ?? ?????????????? <http://wi-fi.na.by/>

?????????????????: ?? ?????? ?????? ?? ?????? ?????????????? ?????? ?????? ?.. ????? "???" ????? ??????????
"?????????" ?? ?????????????????, ?? ?????? "?". (????????? ?????? ? ??????)

??????:

1. ?? ?????????????? ?????????????? ?????????? DIR-300 ?????? ?? ?????? ?????????? ??????
<http://www.shadowandy.net/wp/wp-content/uploads/dir300redboot.zip> ??? ? ?????? ?? ??????

<ftp://ftp.dlink.cz/dir/dir-300/driver software/dir-300 sw revA redboot all en 20080307.zip>

<ftp://ftp.dlink.pl/dir/dir-300/driver software/dir-300 sw revA redboot all en 20080307.zip>

2. ????? ?? ?????????????? ????? ?????????????? ????????????? shadowandy_board_config.bin, ?????? ??????????
????????? ? ?????? ?????????????? ?????????????????? ?? ?????? ??????

<http://www.shadowandy.net/2009/02/generating-dir-300s-board-config.htm> (?? ?????????? ?????? ??
????????????? ?????? MAC ID ? PIN ?????, ?????? ?????????????? ?? ?????????? ? ?????? ?????? ??????????????)
????? ??? ? ? ?????????? ?????? ?????? ? ??????????????, ????? ?????????????? ?????????? ??? ? ??????

3. ?????????? TFTP ?????? ?? ?????????????? ?????????? ? ?????????????? ??????

????????? ?????????? (RedBoot): ?????????????? - ? ?????????????? ??????????, ? ?????????? ?????? ?? ?????????????,
????????????? ?? ??? ?????????????? ?????????????? ?????? IP ?????? ?????? ??, ?????????? ?????????????????? ??????
"????????????????? ??????????????" ? ?????????? TCP/IP ?????????? ?????? ?????? ?????? ? ?????? ??????????
????????????? ?????? ? ??????: 192.168.20.2/24 (255.255.255.0) 192.168.1.2/24 192.168.0.2/24 ??? ?????????? ??
????????????????? ? ??, ?????????? ?? ? ?????? ?????? ?????????? ? ?? ?????? ?? ???.

1. ?????????????????? ?????????????? ?????????? ? 192.168.1.1, port 9000, ?? ?????? ?????????? ?????????? putty.exe
<telnet://192.168.1.1:9000> ? ? ??? ? ?????? ?????????????? ?????????? ?????????? ??????

connect1.bat

rem echo off

:start

ping 192.168.1.1 -n 1 -w 1 > NULL

IF ERRORLEVEL 1 goto start

????????????????????? ?????????????? ??????????????

break

putty.exe telnet://192.168.1.1:9000 -m redboot.txt

????? ???? ?????????? ???? ???? ?????????? ???? ?

connect20.bat

rem echo off

:start

ping 192.168.20.81 -n 1 -w 1 > NULL

IF ERRORLEVEL 1 goto start

break

putty.exe telnet://192.168.20.81:9000 -m redboot.txt

???? redboot.txt, ??? ? ? ?????? ??????? DD-WRT ??????? ???? ??????? - ^C

?????? ?? ?????? ?????????? ? ??????????????? ?????????????? ?????????? - ?????????? ?? ? LAN ?????? - ??????
???????? ???? ?????????? - ?????????? connect1.bat

????? ?????????? ?????? ?????????? ??????????????

DD-WRT> **ip_address -h 192.168.1.2**

Default server: **192.168.1.2**

DD-WRT> **fis init**

About to initialize [format] FLASH image system ? continue (y/n)? **y**

- ◆ ◇ Initialize FLASH Image System

? Erase from 0xbffe0000-0xbfff0000: .

? Program from 0x80ff0000-0x81000000 at 0xbffe0000: .

DD-WRT> **load -r -b % {FREEMEMLO} dir300redboot.rom**

Using default protocol (TFTP)

Raw file loaded 0x80040800-0x800607ff, assumed entry at 0x80040800

DD-WRT> **fis create -l 0x30000 -e 0xbfc00000 RedBoot**

An image named ?RedBoot? exists ? continue (y/n)? **y**

????????????????? ?????????? ??????????

? Erase from 0xbfc00000-0xbfc30000: ?

? Program from 0x80040800-0x80060800 at 0xbfc00000: ..

? Erase from 0xbffe0000-0xbfff0000: .

? Program from 0x80ff0000-0x81000000 at 0xbffe0000: .

DD-WRT> reset

????? ?????????? ?????????? ?????????????? ?????? 30 ?? ? ? ?????????????? ????????????

????????????? ?????? ? ??? WAN, ?????? ?????????? ? ?????????? connect20.bat ??? ??????????? ? ?????????????? ?
?????????????

RedBoot> load -r -b %{FREEMEMLO} shadowandy_board_config.bin

Using default protocol (TFTP)

Raw file loaded 0x80036400-0x800463ff, assumed entry at 0x80036400

RedBoot> fwrite -f 0xbfff0000 -b 0x80036400 -l 0x10000 -e 0x80036400

About to write image into flash ? continue (y/n)? y

? Erase from 0xbfff0000-0xc0000000: .

? Program from 0x80036400-0x80046400 at 0xbfff0000: .

update image info..

Update RedBoot non-volatile configuration ? continue (y/n)? y

RedBoot> reset

????? ? ??? ??????? ? ?????????????? ?????? ?????????? D-link, ??? ??????? ? ? ? ? ? ???????, ??????????
????????????? ??????????? ? ?????????? ????

????? ?????? ??? ?????????? ? ??? WAN. ?????? ??????? ? ? ???????????, ?????????? ??? ? ? ??????????? ?
?????????????? WEB ?????????? ? ?????? <http://192.168.20.81> ? ? ??????? ???????????;
Image:Http://www.shadowandy.net/wp/wp-content/uploads/dir300originalfirmware01small.gif ?????????? ???
????? ?????????????? ?????????????? ?????????? ?????????????? ? ??????? ??

????? ??????????? ??????????? ??????????, ??????????? ??????? ?????????????? ???????.

- ?????? ? 30 ?? ?????? ?????? ??????????????

- ??????????? connect20.bat

- ??????????? ?????????????? ? ??????????? ???????????

RedBoot> **fconfig img_entry_addr 0x80040000**

img_entry_addr: Setting to 0x80040000

Update RedBoot non-volatile configuration ? continue (y/n)? y

? Erase from 0xbfff0000-0xbfffffff: .

? Program from 0x80036400-0x80046400 at 0xbfff0000: .

RedBoot> **fconfig img_flash_addr 0xbfc20000**

img_flash_addr: Setting to 0xbfc20000

Update RedBoot non-volatile configuration ? continue (y/n)? y

? Erase from 0xbfff0000-0xbfffffff: .

? Program from 0x80036400-0x80046400 at 0xbfff0000: .

RedBoot> **fconfig img_length 0x003c0000**

img_length: Setting to 0x003c0000

Update RedBoot non-volatile configuration ? continue (y/n)? y

? Erase from 0xbfff0000-0xbfffffff: .

? Program from 0x80036400-0x80046400 at 0xbfff0000: .

???? ???? ? ???? ????????? ???????, ?????????? ????? ? ???? ? LAN ?????. ????? ?????? ?
????????? ? ??????????? ? ??? ????? ??????? ? ????? 192.168.0.1 ? ?????? ??????????

[Image:Http://www.shadowandy.net/wp/wp-content/uploads/dir300originalfirmware03small.gif](http://www.shadowandy.net/wp/wp-content/uploads/dir300originalfirmware03small.gif)

???? ???? ????????? ????????????? ????????? ??????? ? ?????????? (???????? ????????? ? ???? ??????????) ?
????? ????????? ??????. ?????????? ?????????? ? ?????? ?????????????????? ???.

????? ???!

P.S. ??????? ?????????????? ?????????? ? ?????????????? ?????????, ??? ?????????????, ?? ?????????? ?????????
????????? ?????? 2.2. ? ?????? ??? MAC ????? ??????????? ? ? ? ?????????????? :(??????? ? ? ???????
????? ?????? ??? ??????.