



# ADVANTECH SSH Client Router App User Guide

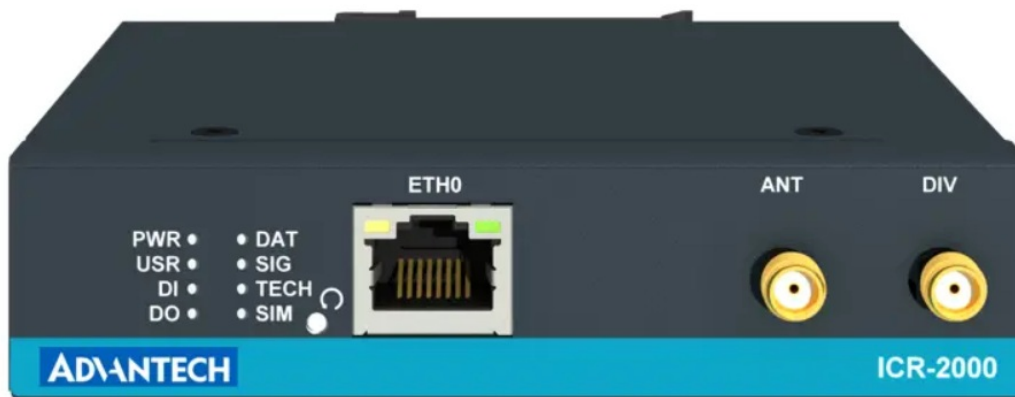
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# ADVANTECH

## ADVANTECH SSH Client Router App



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## Used symbols

- Danger – Information regarding user safety or potential damage to the router.
- Attention – Problems that can arise in specific situations.
- Information – Useful tips or information of special interest.
- Example – Example of function, command or script.

## Changelog

### 1.1 SSH Client Changelog v1.0.1 (29.4.2014)

- First release.

## Description of router app

Router app is not contained in the standard router firmware. Uploading of this router app is described in the Configuration manual (see Chapter Related Documents). The router app is not v4 platform compatible. This module extends the portfolio of Advantech router functions by the ability to use it as an SSH client. This means that the module allows to establish the SSH connection to the remote router and execute commands on it. Due to the fact the SSH server is a standard part of the firmware, it is possible to connect to any Conel router. SSH can be understood (from the administrator's perspective) as an encrypted tunnel between two devices based on client/server. In essence it is secure encrypted communications between two untrusted devices. Using SSH it is possible to access to shell of a remote device, create encrypted tunnels for remote access to a service which is behind a firewall, etc.

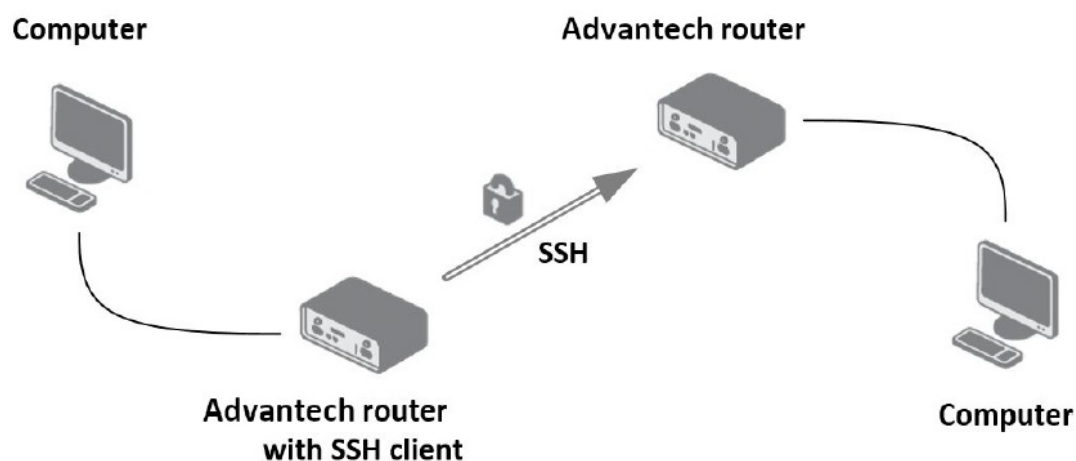
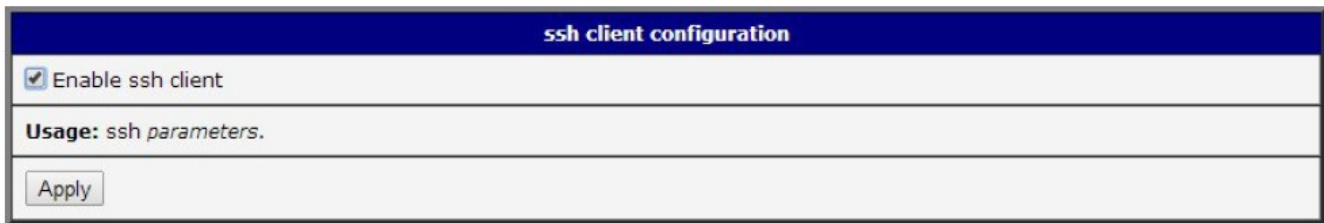


Figure 1: Model situation

For configuration SSH client router app is available web interface, which is invoked by pressing the module name on the Router Apps page of the router web interface. The left part of the web interface contains the menu with pages for monitoring (Status), configuration (Configuration) and customization (Customization) of the module. Customization block contains only the Return item, which switches this web interface to the interface of the router.

## Configuration

The actual configuration of the SSH client router app configuration only consist in activation or deactivation of SSH client. For this purpose Enable ssh client item on SSH client page is meant for. If the module is activated, there is also displayed a line which informs about usage (Usage: ssh parameters). Basically, this is only information relaying to user that it is necessary to use a command line and ssh command with the appropriate parameters after activation. Activation or deactivation of SSH client module must be confirm by pressing the Apply button.



The image shows a web-based configuration window titled "ssh client configuration". It has a blue header bar with the title. Below the header, there is a checkbox labeled "Enable ssh client" which is checked. Underneath the checkbox, it says "Usage: ssh parameters.". At the bottom of the window, there is an "Apply" button.

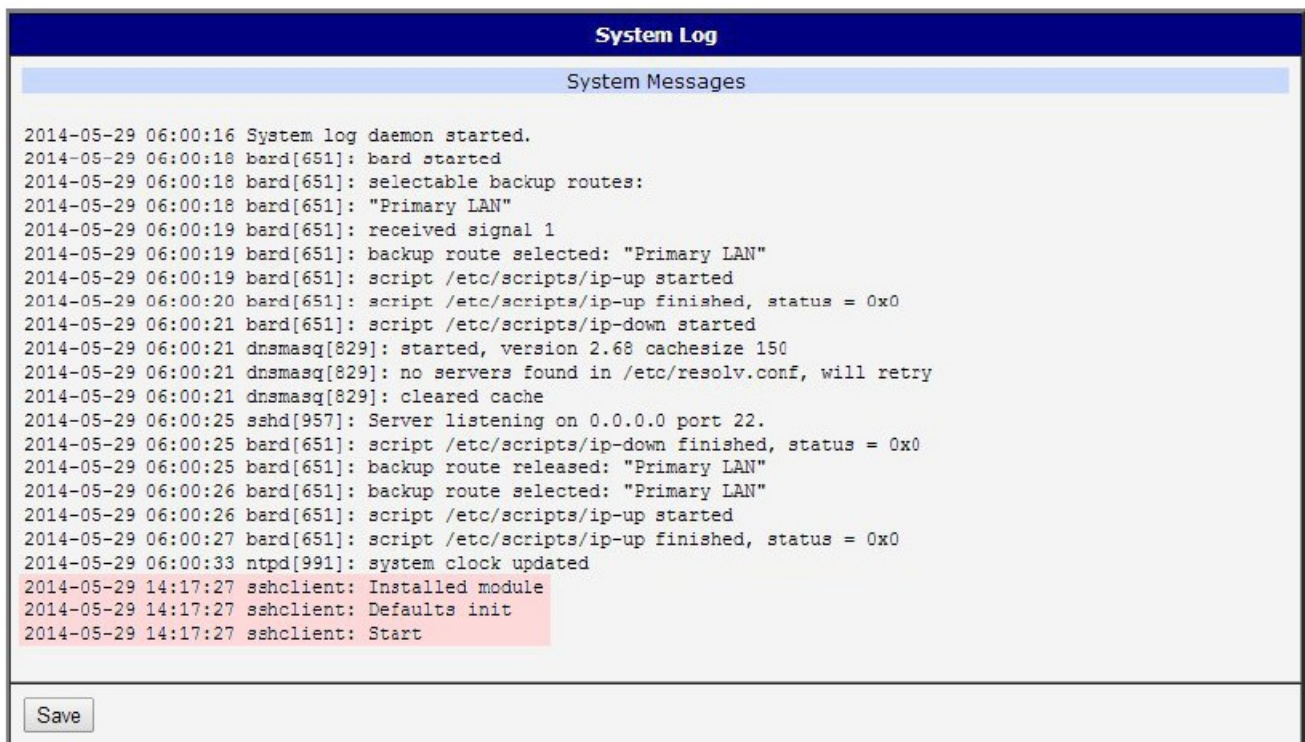
Figure 2: SSH client

If we want to connect from one router to another router via SSH (ie. log in to the remote shell), it is needed to enter to command line the following command (please note the -p parameter which allows to select other than the standard port 22 on the destination server): **ssh -p port\_number user@server**

In the event that it is necessary to enter only one command and access to the remote shell is not required, the command can be called directly: **ssh -p port\_number user@server** command Detailed description of all parameters of ssh command can be found in the man page for this command (see for example [3]). SSH

### System log

In case of any problems it is possible to view the system log by pressing the System Log menu item. In the window are displayed detailed reports from individual applications running in the router including possible reports relating to the SSH client module. The highlighted lines in the figure illustrate a situation where the system log displays information about running this module (ie. about running SSH client).



The image shows a web-based "System Log" window. It has a blue header bar with the title "System Log". Below the header, there is a sub-header "System Messages". The main area contains a list of system messages with timestamps. The last three messages are highlighted in red: "2014-05-29 14:17:27 sshclient: Installed module", "2014-05-29 14:17:27 sshclient: Defaults init", and "2014-05-29 14:17:27 sshclient: Start". At the bottom of the window, there is a "Save" button.


Figure 3: System log

### Related Documents

1. Internet: [http://linux.about.com/od/commands/l/blcmdl1\\_ssh.htm](http://linux.about.com/od/commands/l/blcmdl1_ssh.htm)

You can obtain product-related documents on Engineering Portal at [icr.advantech.cz](http://icr.advantech.cz) address. To get your router's Quick Start Guide, User Manual, Configuration Manual, or Firmware go to the Router Models page, find the required model, and switch to the Manuals or Firmware tab, respectively. The Router Apps installation packages and manuals are available on the Router Apps page. For the Development Documents, go to the DevZone page.

## Documents / Resources

	<p><a href="#">ADVANTECH SSH Client Router App</a> [pdf] User Guide SSH Client Router App, SSH, Client Router App, Router App, App</p>
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## References

- [A Advantech 4G, 5G Cellular Routers & Gateways for IoT applications - Engineering Portal](#)
- [W How to Connect to a Server](#)
- [A Advantech 4G, 5G Cellular Routers & Gateways for IoT applications - Engineering Portal](#)
- [A DevZone - Cellular Routers Engineering Portal](#)
- [A Router Apps - Cellular Routers Engineering Portal](#)
- [A Router Models - Cellular Routers Engineering Portal](#)
- [User Manual](#)

Manuals+.