VONETS_VNET-AD Serial 300Mbps Advertising Router Configuration Instruction

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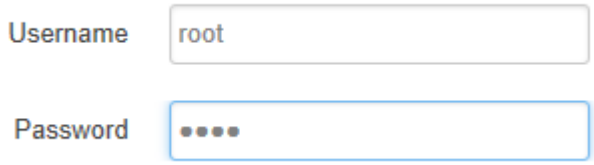
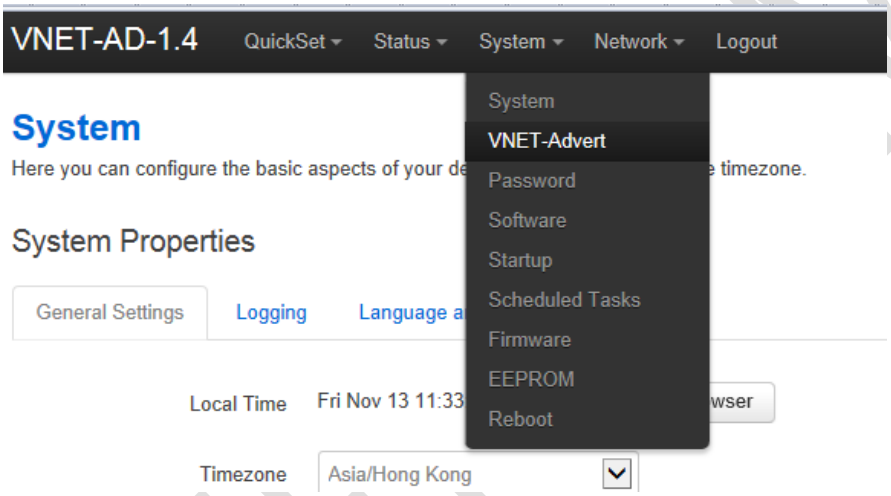
VNET-AD Function Configuration Description

1. VNET-AD configuration page log in:

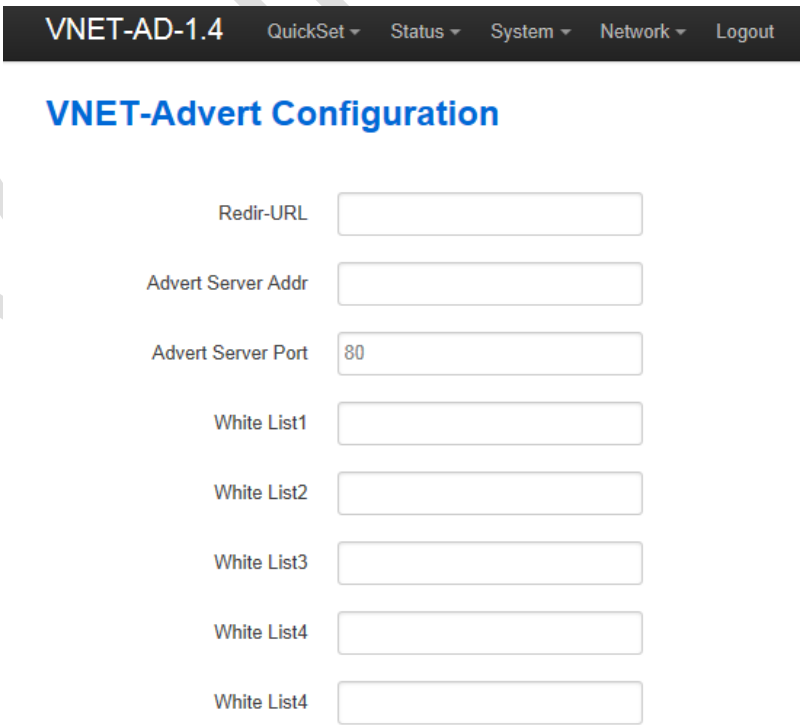
- Browser address bar input: http://vonets.cfg:81
- Input user ID: root, password: root



- Choose VNET-ADVERT Sub menu :

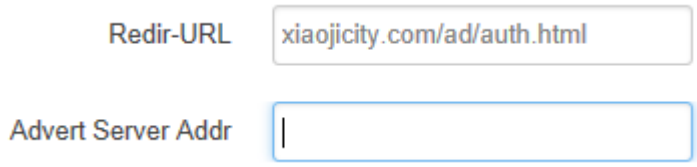


- VNET-AD configuration page as below:



2. VNET-AD method of using no authentication server

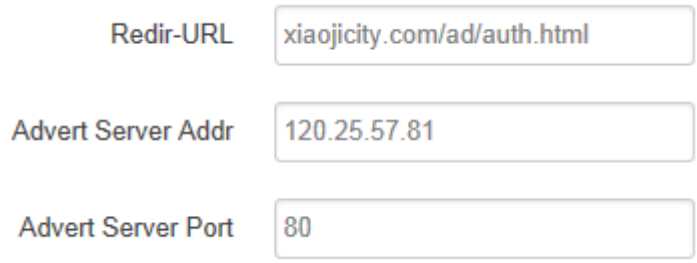
- Fill Redir-URL（Redirect page address);
- Don't Advert Server Addr; see the drawing below:



- The redirect page must contain a POST form with VNET-Advert protocol, for the details, please check VNET-Advert protocol;
- No authentication server is used, after users finish visiting the redirect page, and submit post form, users can access the internet;

3. The using method of enable authentication server:

- Fill Redir-URL;
- Fill Advert Server Addr（Protocol authentication server address);
- Fill Advert Server Port (Protocol authentication service port); please see the drawing below:



- After enabling authentication server, users must follow the VNET-Advert protocol when accessing the internet;
- After enabling authentication server, if you want to use this machine as a HTTP server, the redirection page must contain a POST form that is in compliance with the VNET-Advert protocol, and the form's submit address is the authentication server, not the machine.

4. The use method of enabling redirection to this machine HTTP service

- Fill Redir-URL (Redirect page address) as this machine IP or this machine domain name;
- Don't fill Advert Server Addr, see the drawing below:

- Under this configuration, there are two cases, the analysis is as follows
  1.internet is offline, all DNS requests are are intercepted by the kernel (all packets sent to the machine), and resolved to 101.12.30.56,
  1. Internet offline state, all DNS requests are intercepted by the kernel (all packets sent to the machine), and resolved 101.12.30.56, then all get HTTP requests sent to the IP are redirected to the address of the machine (Redir-URL), this redirection by advert - portal in the IP provides Visual HTTP service, then provided by this machine IP ngnix HTTP service;
  2. Internet connection state, all DNS normal analysis, kernel block forwarding packet (not all packets sent to this machine), to all GET request of HTTP, reply redirection response, all GET requests are also being redirected to this machine (Redir-URL), then HTTP services of this machine provided by ngnix;
- In this case, the Advert server will automatically invalid, all requests are pointing to the HTTP service, users can not access the Internet.

5. The use method of stopping the function of VNET-AD advertising

- Don't fill the contents of redir_url column, will automatically disable the VNET-AD function

- After SSH log in, use the stop #advert command to disable the VNET-AD function;

Annex 1：VONETS_VNET-AD Serial Configuration parameters
Annex 2：vonets_openwrt software function description

Annex 1

VONETS_VNET-AD Serial Configuration Parameter

Parameter / Product item	Memory（MB）	Flash(MB)	T card（GB）	Support POE
VOPWRT	128	16	8	No
VOPWRT-1	128	32	8	No
VOPWRT-2	256	32	8	No
VOPWRT-P	64	16	8	Yes
VOPWRT-1P	128	32	8	Yes
VOPWRT-2P	256	32	8	Yes
MINIOP	128	16	8	No
MINIOP-1	128	32	8	No
MINIOP-2	256	32	8	No
MINIOP-P	64	16	8	Yes
MINIOP-1P	128	32	8	Yes
MINIOP-2P	256	32	8	Yes

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Annex 2

vonets_openwrt Software function description

1. Support auto mount T-card (EXT2), Mount Directory: /data;
2. Support VNET-AD 1.4 Advertising router protocol, see the file VNET-AD configuration description and protocol documents;
3. Support PORTAL Authentication of IPhone;
4. Automatically start the web service of nginx , service configuration file: /etc/nginx/nginx.conf;
5. Automatically start PHP service, service configuration should be set up, the configuration file is the same as nginx;
6. Automatically start dnsmasq (DNS agent)
7. Automatically start ntp client (Automatically time)
8. The web configure address of openwrt: http//:vonets.cfg:81
9. After reset to the factory status, support automatic formatting method (T card without OK mark)
10. Support SSH log in (user name: root, password: root)
11. Support luci script
12. Support python2.7, python-openssl

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This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

-- Reorient or relocate the receiving antenna.

-- Increase the separation between the equipment and receiver.

-- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

-- Consult the dealer or an experienced radio/TV technician for help.

The distance between user and products should be no less than 20cm