

WarpVM™ AWS Quickstart Guide

STEP 1

Launch an instance from the *WarpVM* AMI

- Select the c4.2xlarge instance type, as this is the only type supported.
- Select the desired VPC and subnet for your instance. Note that the eth0 interface will be your dedicated management interface.
- Create/select a security group that allows TCP ports 80 and 443 for your management interface.
- Review your choices and launch the instance.

STEP 3

Attach an elastic IP to your management interface (eth0)

- Navigate to that address in your browser
- You will be redirected to `https://<public_ip>/index.html`
- You may get a security warning from your browser, this is because we use a self-signed certificate. You can safely add an exception for this site.
- You will then be prompted to log in. Default user is admin, default password is your instance id.

STEP 2

Once the instance boots, you will need to attach 3 additional network interfaces (for a total of 4)

- Create each network interface in a different subnet
- Note that eth1 is not currently used, but it needs to be present
- eth2 and eth3 will be the proxied interfaces. eth2 is client side, eth3 is server side
- Disable Source/Dest. check on the eth2 and eth3 interfaces
- Attach the interfaces in the proper order, i.e, eth1, eth2, eth3

The screenshot shows the configuration interface for the WarpEngine Proxy. It is titled "WarpEngine Proxy" and has a "Bridged Gateway" dropdown menu. The interface is divided into three main sections: "Downstream Gateway", "WarpEngine Proxy", and "Upstream Gateway".

- Downstream Gateway:** Contains fields for IP Address, Netmask, and VLAN ID.
- WarpEngine Proxy:** Contains fields for Interface: eth2, Gateway, Pair Name (Ip_0), MSS, VLAN Name, VLAN ID, and VLAN Priority. It also has checkboxes for Enable GTP, GTP Seq Num, and Spoof Mac Addresses.
- Upstream Gateway:** Contains fields for IP Address, Netmask, and VLAN ID.

At the bottom of the interface, there are buttons for "Verify Configuration" and "Notes". There are also expandable sections for "Selective Bypass Configuration" and "Redirect Configuration (Beta)".

STEP 4

Configure instance

- a. Click on the Interfaces tab, then click on the eth2 <-> eth3 subtab
- b. Gateway mode will already be selected. Enter the private IP addresses for the respective interfaces (these should match what was assigned when the network interfaces were created in AWS)
- c. Specify your gateways for both the client and server sides. These may be the subnet gateway, or it may be the IP of another instance in the corresponding subnet.
- d. (Optional) Add any desired bypass rules in the Selective Bypass Configuration
- e. (Optional) Add one or more redirect rules in the Redirect Configuration (should only apply when using SNAT)
- f. Click the Save button to reboot and apply changes



STEP 5

License Software

- a. Click on the System tab, then click on the Administration subtab.
- b. Click on License Request button and a license request file will be downloaded.
- c. Navigate to license.badunetworks.com and log in to your account.
- d. Upload the license request file and you will be given a license file to download. Note that requesting this license will use a credit from your account.
- e. Go back to the administration page and click on the Apply License button. Upload the .lic file that you received from license.badunetworks.com
- f. Software should now show Licensed in the top right corner of the administration page.



STEP 6

Verify routing

- a. Make sure that your VPC and subnet routes are set correctly and then you should be able to begin proxying traffic through *WarpVM*.

The screenshot shows the BADU Networks Administration interface. At the top, there is a navigation bar with tabs for Status, Interfaces, System, Diagnostics, and Help. The 'System' tab is active, and the 'Administration' subtab is selected. The 'Proxy State' is shown as 'Licensed' in the top right corner. Below the navigation bar, there is an 'Alarms' section with a table of system messages. The table has columns for Device, AI ID (12), Start, End, and Msg. Three messages are listed, all with 'START SUCCESSFUL' status. Below the Alarms section, there are tabs for Proxy Information, Utilities, System Metrics, and Administration. The Administration subtab is active, showing sections for Access Control (with buttons for WarpAdmin Admin Password, Generate New SSH Key, and Cancel SSH Key), Badu Networks Website (with buttons for License Request, Apply License, and Upload Firmware), and Report Problems (with a button for Generate SOS File). The footer of the interface contains the copyright notice: © Copyright BADU Networks Inc; 2014-2016; All rights reserved.