



Virtualization Specification Sheet

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The DHCPatriot™ is a broadband subscriber authentication system designed to give network administrators the same visibility on DHCP networks they once had on dial networks.

Introduction

The DHCPatriot™ has recently made the jump to the virtual space. The system currently supports two virtual environments. KVM, Linux® kernel based virtualization, support was the first to be added. This is the method used by Red Hat, Inc. in their Red Hat Enterprise Linux (RHEL) and Red Hat Enterprise Virtualization (RHEV) implementations. The DHCPatriot system supports running on these platforms and can be shutdown by external command structure, because the method used by Red Hat mimics a power button press.

Support for VMware® virtualization has recently been added to the DHCPatriot system as well. The system will run within VMware, but advanced features, such as automated shutdown, provided by VMware tools, are not supported. The VMware method for distributing their Linux client-side tools involves compiling the tools on the host as each new revision is released. Since the DHCPatriot has no compiler available, the tools are not available. Our VMware version of the DHCPatriot system was created in the VMware 5.5 environment. It is also known to run in version 6.0 of VMware which is the latest as of this writing.

Requirements

For both supported virtualization platforms, certain minimum requirements should be met. These requirements mimic the hardware based version of the DHCPatriot system to ensure at least a minimum level of performance. The virtual installation should consist of at least the following:

- There will be two separate virtual machines (primary and secondary).
- These two separate virtual machines should run on physically separate hosts (ie: Both should not run on the same virtual host).
- Two virtual networks are required:
 - Main server network used to communicate to the rest of your network
 - Dedicated private network used for synchronization between DHCPatriot units
- Each virtual should have at least four CPUs configured.
- Each virtual should have at least 8 GB of RAM configured.
- Each virtual should have enough space available to support a 500 GB and a 16 GB virtual disk as they will come pre-configured in this manner.

Performance

Virtual environments can vary greatly in the hardware that they are deployed on. The CPUs may vary in performance. The disk I/O available is probably the biggest area of difference in virtual environments. The DHCPatriot system is an I/O intensive application.

We cannot predict the level of performance that will be available on any given virtual platform as the possible combinations of CPU + RAM + Storage are large. We also cannot predict the amount of resources that other virtual machines may be consuming. Therefore, we cannot provide any performance guarantee. We also cannot predict what range of DHCP Queries per second would be supported or recommended.

If performance difficulties are encountered, making more I/O available will likely resolve the issue.

How to Purchase

The DHCPatriot™ may be purchased direct, or through one of our reseller partners. If purchased direct, no discount from MSRP will be available.

To purchase through a reseller, please contact your reseller of choice. For a current list of resellers, with contact information, please visit <http://www.network1.net/products/dhcpatriot/>, email DHCPatriot@network1.net or call 800-578-6381 opt.3 (419-739-9240 if outside the United States of America) with your request.

To purchase direct or receive pre-sale support, please use the following contact information:

DHCPatriot@network1.net

800-578-6381 opt.3 (419-739-9240 opt.3 if outside the United States of America)

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