

porttracker[®] Appliance
Installation Guide

porttracker

Version: 2.2.1

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Pre-installation Checklist

Use this pre-installation checklist to gather the information you will need to install your porttracker appliance.

LICENSE KEY

Ensure you have a valid License key. If you have not received one contact your supplier. The License key sets the maximum number of ports that you can track and the number of pollers that you can deploy.

Keys are either permanent or time limited.

If you exceed the port limit or the time limit you will only be able to access the License entry screen until you enter a new License key.

If you have misconfigured your appliance for the discovery phase and accidentally exceeded the port limit by discovering a far larger network than intended, you can reset your appliance and start again. Resetting will delete any data. If you have passed the expiry time for a time limited key you will be unable to access data until an updated key is entered.

NETWORK CONFIGURATION

Before you can complete the initial configuration of your porttracker appliance you will need to gather the information below:

| Parameter | Value |
|--|-------|
| <ul style="list-style-type: none">• Hostname | • |
| <ul style="list-style-type: none">• IP Address | • |
| <ul style="list-style-type: none">• Subnet Mask | • |
| <ul style="list-style-type: none">• Default Gateway | • |
| <ul style="list-style-type: none">• NIC Speed and Duplex | • |
| <ul style="list-style-type: none">• DNS Servers | • |
| <ul style="list-style-type: none">• NTP Server | • |
| <ul style="list-style-type: none">• Time Zone | • |
| <ul style="list-style-type: none">• SNMP Community Name(s) for porttracker to query routers & switches. | • |
| <ul style="list-style-type: none">• List of summary networks to be discovered by porttracker. (e.g. 10.0.0.0/8, 192.168.64.0/20) | • |

ACCESS CONTROL LISTS

You may need to be adjust Access Control Lists to permit porttracker to use SNMP to query some or all of your switches and routers.

Appliance Platforms

porttracker ships as a either physical hardware appliance or a virtual appliance.

HARDWARE APPLIANCE

RACK SPACE

The appliance utilizes 1U of rack space and is complete with the usual keyboard, video, power, serial and network connection ports and a rail kit with fitting instructions.

POWER/THERMAL

Single power supply - 230 volt/600W with a normal load of 430W.

Heat Output - 1462 BTU/h.

NETWORK CONNECTIVITY

The appliance uses only one network connection. By default the appliance is set to auto configure the speed and duplex settings of the network interface. You can override the speed and duplex settings by the use of the porttracker management menu on the appliance, once it has booted. Consult the porttracker Appliance Administration Guide for further information

The underlying hardware platform will usually have two network interfaces present, but porttracker only uses one of them. Ensure that the network connection is made to the port labeled “Gb1”.

Note The “Gb2” port is not used.

MANAGEMENT CONSOLE

Access to the Management Console for entering the initial configuration parameters to connect the appliance to your network can be made either by connecting a monitor and keyboard or a terminal emulation program can connect through a null modem cable to the serial port.

VIRTUAL APPLIANCE

The virtual appliance is supplied as a 64 bit VMware image that can be installed and loaded directly into a VMware Server . It requires the following resources:

| Resource | Requirement |
|----------------|--|
| Disk | 80 GB Virtual Disk |
| Memory | 2GB Memory |
| NIC | Bridged Mode |
| VMware Version | The porttracker virtual appliance is compatible with 64-bit VMware version 2.0 Server, VMware workstation 6.5 or VMware ESX. |

NOTE: The host system must be 64-bit architecture running 64-bit Windows or Linux. porttracker is unable to guarantee any specific performance levels when running within a VMware environment. Performance may be reduced when running within a virtual environment by external factors outside of our direct control.

BACKGROUND INFORMATION

Consult the following VMware KB article for general hardware requirements for VMware:
<http://kb.vmware.com/kb/1901>

Intel-based platforms must support VT technology. Read the following article to see if your Intel CPU is VT capable: <http://compare.intel.com/pcc/default.aspx?familyid=5&culture=en-US>

INSTALLING THE VIRTUAL APPLIANCE

The disk has been created using VMware Server and can be used directly with VMware Server or Workstation. To install the virtual appliance, copy the “.vmdk” and associated files from the supplied CD to the location where VMware is storing its virtual machines. When using a virtual appliance on VMware Workstation or Server, the “.vmdk” file can simply be opened to start the virtual machine.

If using the VMware Infrastructure Client, a new virtual machine can be created (using custom settings) that uses the converted “.vmdk” file. When prompted for the operating system type, select “Other Linux [experimental]”. When prompted for the virtual disk, select “Use an existing virtual disk” and navigate to the vmfs volume that contains the converted “.vmdk” file (e.g. storage1).

If VMware asks whether to keep or create a new unique identifier, always select “create”.

To run the VMware appliance on the VMware ESX Server you must expand the disk to its full 80GB capacity using the “vmkfstools” tool and copy the new vmdk file over the top of the existing one.

If using VMware ESX 3 Server, the “.vmdk” file requires a one-time conversion process using the VMware ESX 3 “vmkfstools” command. This uses 80GB of hard disk space, because the “vmkfstools” utility inflates the “.vmdk” file to its uncompressed size.

To use the vmkfstools command, copy the “.vmdk” file to a temporary area (e.g. /var/tmp) on the VMware host machine. Next run vmkfstools to convert and import the “.vmdk” file into VMware ESX 3 vmfs file system using a command similar to the following:

```
vmkfstools -i /var/tmp/"Other Linux 2.6.x kernel.vmdk"  
/vmfs/volumes/storage1/ptvmware.vmdk
```

Connecting to your network

Whether the porttracker appliance is a physical or virtual one it has all software preinstalled. Once installed the next step is to use the Management Console to configure the Basic Settings that will allow the appliance to connect to and be accessible from your network as set out in the porttracker® Appliance Administration Guide