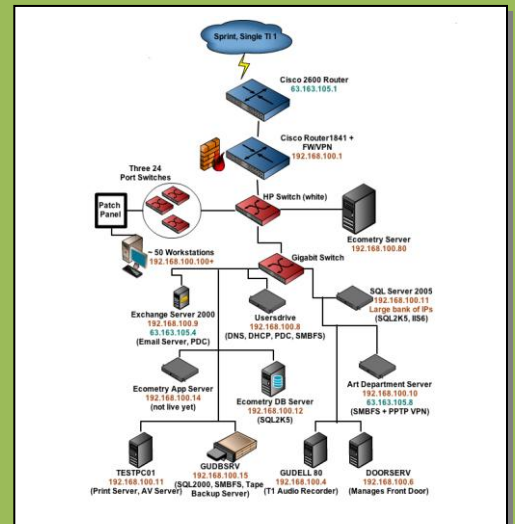


System Requirements

PacketTrap Tech Note

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INTRODUCTION

This document provides a detailed overview of the systems requirement for PacketTrap Perspective and PacketTrap MSP to ensure the best performance and efficiency from your network management solution.

SERVER SIZING

PacketTrap Perspective and PacketTrap MSP are comprehensive device, application, and traffic monitoring and troubleshooting solutions. They are capable of monitoring single and multi-site networks of all sizes, from small business LANs to large corporate networks or highly distributed environments. Basic installations perform well on Pentium-class 2GHz systems with 2GB of RAM using the default monitor settings within the Smart Policies. However, when adjusting the policies, monitoring larger networks or using the Network Traffic Flow module, additional consideration must be given to the hardware and system configuration used.

Scalability is affected in multiple ways. The first variable is the number of devices that are monitored. Performance tuning may be required when there are more than 500 devices monitored. The second variable is the amount of performance data that is collected for each device. Increasing the number of monitors on devices will cause spikes in the amount of data collected. The third variable to consider is monitoring time intervals. For example, if monitor time intervals are set to collect performance statistics every five minutes instead of the default time intervals, the server will work harder and system requirements will increase. Finally, a large number of simultaneous Studio connections accessing the system will also impact performance of the system.

When planning your installation, keep in mind CPU, memory, data monitor setting, and Network Traffic Analysis collection. In traffic analysis deployments where traffic flow is being collected from multiple routers/switches, has a large amount of 'traffic conversations', or 500 or more devices are being monitored, it is recommended to use a dedicated, high performance server. This approach offers several performance advantages. The most evident effect is that the PacketTrap server does not have to share resources with other applications.

SPECIFICATIONS

Perspective Host Server, MSP Platform, and Collection Agent

Monitored Devices	100-250 devices	500 - 2000 devices	Unlimited and MSP Version
Operating System	32-bit or 64-bit operating system: <ul style="list-style-type: none"> Windows 2003 SP2 or later Windows XP SP2 or later * Windows Vista SP1 (all versions) * 	32-bit or 64-bit operating system: <ul style="list-style-type: none"> Windows 2003 SP2 or later Windows 2008 Server 	64-bit operating system: <ul style="list-style-type: none"> Windows 2003 SP2 or later Windows 2008 Server
CPU	2.0 GHz	2.4 GHz	3.0 GHz
Memory	2 GB or more	3 GB or more	4 GB or more
Hard Drive Space	20 GB or more	50 GB or more	100 GB or more
.Net Framework	2.0 or higher		
Firewall Exceptions – Allowed Programs	Automatically configured during installation: <pre>ptserverservice ptserverconfig ptagentservice ptagentconfig ptstudio</pre>		
Ports	Firewall rule for inbound connections 5053 (TCP) = (128 AES Encrypted Host Server port) 5054 (TCP) = Agent deployment CAB file downloads 5055 (TCP) = (Encrypted Remote Control Tunnel port) 69 (UDP) - TFTP Server 514 (UDP) - Syslog Server 2055 (UDP) - NetFlow 6343 (UDP) - sFlow 9555 (UDP) - NetFlow Alternative port #2 9995 (UDP) – NetFlow Alternative port #3		
Virtual Machines	Due to intense I/O requirements and a high threshold of additional hardware specifications, PacketTrap does not recommend virtual machine installations in production environments. This ensures you and your colleagues / customers have the best user experience possible.		
NOTE: The minimum server requirements listed above assume default configurations. Significantly increasing the device monitoring intervals and network traffic collection could result in additional load on the server, which may require more RAM and CPU power.			
* Both Windows XP and Vista have TCP Connections limits that could impact the performance of monitoring when these operating systems are used for either the PacketTrap server and/or Collection Agent. It is recommended to use Windows 2003 or 2008 server whenever possible for the PacketTrap Server and Collections Agents.			

Device Agent and Studio

Operating System	32-bit or 64-bit operating system: <ul style="list-style-type: none"> Windows 2003 SP2 or later Windows XP SP2 or later Windows Vista SP1 (all versions) Windows 2008 Server Windows 7 Ubuntu Server 8 Fedora release 10 Debian 4.0 OpenSuse 11.0 MAC OS 10
.Net Framework	2.0 or higher

If you have additional questions or are experiencing performance problems, please call 1-866-697-8360 (415-348-0700) to speak with one of our system engineers or visit www.PacketTrap.com.