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Technical specifications

IT Insight

Monitoring and management platform
SNMP- based networks

Product:	IT-Insight
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IT-INSIGHT

TECHNICAL SPECIFICATIONS

Network monitoring and management platform

IT- Insight is an SNMP-based network monitoring and management platform designed to offer automatic discovery, intuitive visualization, historical metrics, and support for a wide range of devices.

Product:	IT Insight
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1. GENERAL DESCRIPTION

IT- Insight is an SNMP-based network monitoring and management platform designed to offer automatic discovery, intuitive visualization, historical metrics, and support for a wide range of devices. It is designed to be stable, low-maintenance, and suitable for enterprise environments, ISPs , and distributed networks.

2. MAIN CAPABILITIES

2.1 Automatic Discovery

Discovery via	Automatic identification of:
SNMP	Devices
CDP, FDP	Interfaces
LLDP, EDP	VLANs
ARP, OSPF	VRFs
BGP	Services
VRRP	Network topologies

2.2 Monitoring and Metrics

- Performance graphs based on RRDtool

Metrics of:
CPU, RAM, disk
Interfaces (traffic, errors, saturation)
Environmental sensors (temperature, voltage, fans)
BGP sessions
VRFs, VLANs
Storage and filesystems
Latency and availability (fping)

2.3 Alerts and Notifications

- Rule-based alerting engine
- Complex conditions (thresholds , states, logical combinations)

Notifications by:
E-mail
Syslog
Webhooks

2.4 Visualization and Maps

- Automatic topology maps (requires GraphViz)

Views by:
Device
Port
VLAN
BGP
VRF
Services
Customizable Dashboards

2.5 Inventory and Management

Automatic hardware and software inventory
Firmware versions
Serial numbers
Modules, transceivers , sensors
Export capacity (according to edition)

2.6 Integrations and Extensions

IPMI for server monitoring (requires ipmitool)
Libvirt for monitoring virtual machines
WMIC for Windows Hosts
APIs for automation (Professional/Enterprise editions)

3. Compatibility with Devices and Systems

IT- Insight supports hundreds of platforms, including:

Network Manufacturers

Cisco
Juniper
HP / Aruba
Dell
Brocade
Extreme Networks
Mikro TikTok
Ubiquiti
Netgear

Servers and Operating Systems

Linux (all major distros)
Windows Server (via SNMP + WMIC)
NetApp
Netscaler
VMware ESXi (partial via SNMP)
KVM/ libvirt

Supported Protocols

SNMP v1/v2c/v3
ICMP (fping)
BGP, OSPF, VRRP
LLDP, CDP, FDP, EDP
IPMI
Libvirt

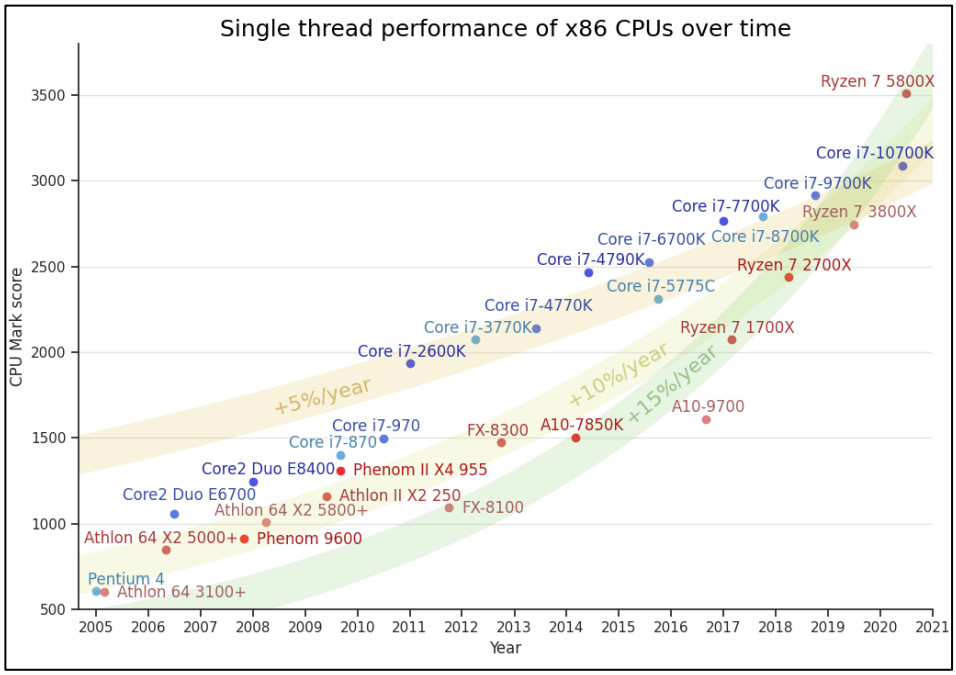
4. TECHNICAL REQUIREMENTS

Insight documentation .

Operating System

- Linux (recommended):
- Ubuntu / Debian (Main Distro)
- RHEL / CentOS / AlmaLinux / Rocky Linux
- It is recommended to use the latest version of the distribution.

Hardware



Basic requirements

For a small installation, we recommend at least 512 MB of RAM, 4 CPU cores, and 128 GB of hard drive per system for a basic installation of up to 50 devices to monitor, although the capacity calculation for extensive monitoring should be based on the following performance metrics data.

Processor (Web)

To avoid wasting CPU cycles, try to run approximately 2 polls per core.

Memory

The memory usage of the polling process is usually negligible and adjusts slightly based on the number of ports or other entities on each device. The memory usage of the web interface adjusts based on the overall size of the installation but rarely exceeds a few tens of MB per page load.

Storage capacity

The storage capacity required depends on the amount of data generated by your installation.

Each device or port may require a different amount of storage (for example, 3 MB per port and between 5 and 50 MB per host, depending on the operating system and the number of ports).

Calculate the total storage capacity needed for your specific use case (for example, 8 GB for 5000 ports or 23 GB for 11,000 ports).

Storage I/O performance

A single 7200 RPM drive can handle the I/O requirements of approximately 5000 ports. This capacity can be increased using RAID-0 or faster drives (10k, 15k).

We highly recommend using SSD-based storage, as it offers significantly higher I/O performance and lower latency. Opt for high-quality SSDs with excellent endurance and IOPS performance.