NETBEEZ®

Detect problems before users do

Specifications

BeezKeeper (Central Server)

Server Minimum Requirements:

- **RAM:** 8 GB
- **CPU:** 2 Cores
- **NIC:** 1000 Mbps
- **Disk Drive:** 100 GB

Deployment Options:

- **On-premise virtual appliance**
  - **Format:** OVA/OVF/KVM
  - **Platforms:** vSphere, Cisco UCS, vBox, KVM
- **Cloud-based instance**
  - Amazon Web Service AMI
  - Google Compute Engine instance
  - Other cloud services (Azure, RackSpace)

Beez (Monitoring Sensors)

FastE

CPU: 1.2 GHz quad-core (ARMv8)
RAM: 1 GB
Disk Drive: 8 GB
Ethernet NIC: 10/100 Mbps (RJ-45)
Power Consumption: 3W AC 110V and 220V
Power Supply: External PSU or PoE
Dimensions (WxDxH): 2.5” x 3.7” x 1.2”

GigE

CPU: 1.91 GHz quad-core (Intel Atom)
RAM: 2 GB
Disk Drive: 8 GB
Ethernet NIC: 10/100/1000 Mbps (RJ-45)
Power Consumption: 4W to 8W AC 110V and 220V
Power Supply: External PSU or PoE
Dimensions (WxDxH): 2.4” x 3.5” x 1.2”

WiFi

CPU: 1.2 GHz quad-core (ARMv8)
RAM: 1 GB
Disk Drive: 8 GB
Ethernet NIC: 10/100 Mbps (RJ-45)
Power Consumption: 3W AC 110V and 220V
Power Supply: External PSU or PoE
Dimensions (WxDxH): 2.5” x 3.7” x 1.2”
WiFi Card: 802.11 AC based on ASUS AC56

Virtual	Self-contained virtual machine Format**:** OVA, OVF, KVM Platforms: vSphere, Cisco ISR, UCS, vBox, KVM
External	Cloud-based instance • Amazon Web Services AMI • Google Compute Engine instance • Other cloud services (Azure, RackSpace,….)
Software	Gnu/Linux Operating System

Features

End-to-End Measurements

Run tests between agents and other network hosts. Automated tests deliver real-time data about network and application performance, enabling NetBeez to detect problems before the end-users do.

PING:
- End-to-End connectivity
- Packet Loss
- Round-Trip Time
- DSCP marketing
- MTU and DF setting

TCP-based PING test:
- Packet Loss
- Round-Trip Time
- DSCP marketing
- MTU and DF setting
- Custom Port

DNS:
- Availability
- Query time

HTTP:
- Availability
- Response Time
- Proxy support

Traceroute:
- Number of hops
- TCP/UDP/ICMP protocol
- Path-MTU
- Hop-by-Hop RTT
- DSCP marketing
- Destination TCP/IP port

iPerf:
- TCP/UDP Bandwidth
- Custom TCP/IP ports
- Multicast
- QoS
- Jitter
- Packet Loss
- DSCP marking

Speedtest:
- Download speed
- Upload speed
- Custom server

VoIP Testing:
- Mean Opinion Score
- Packet Loss
- Jitter
- G711, G729, G723, G726, G728

Alerts

Discover which locations underperform with interactive reports. Compare performance among different locations and discover why some suffer more than others. Collected data that can be saved and accessed for years.

- Up-Down
- Performance degradation
- Support for historical baseline
- Service Level Agreement alerts
- SNMP traps support
- SMTP email alerts
- Syslog alerts

Integrations

NetBeez users can receive notification of alerts or incidents via third-party applications.

- Slack
- PagerDuty
- Splunk
- PathSolutions

Reports and Statistics

Discover which locations underperform with interactive reports. Compare performance among different locations and discover why some suffer more than others. Collected data can be saved and accessed for years.

Reports:

- Daily
- Weekly
- Monthly
- Custom

Statistics:

- Agents' availability
- Agents' uptime
- Monthly

Historical Data

The NetBeez central server can hold unlimited amount of data based on user requirements. The dashboard calculates the amount of disk space required based the number and frequency of tests.

Data retention schema:

- Raw data
- 1-min average
- 1-hour average
- 1-day average

WiFi Monitoring

The NetBeez WiFi agent can run end-to-end measurements, retrieve wireless metrics, and discover local SSID.

WiFi Authentication:

- Open
- WEP
- WPA/WPA2
- EAP Methods

WiFi Metrics:

- Agents' availability
- Signal strength
- Link quality
- Channel selected
- Bitrate set by AP
- BSSID
- Available SSID

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