



# NETBEEZ<sup>®</sup>

Detect network problems before users do

## Specifications

BeezKeeper (central server)

Server minimum requirements

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

Deployment options

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

Beez (monitoring sensors)

**CPU:** 1.2 GHz quad-core ARMv8

**RAM:** 1 GB

**Disk Drive:** 8GB

**FastE**

**Ethernet NIC:** 10/100 Mbps (RJ-45)

**Power consumption:** 3W AC 110V and 220V

**Power supply:** External PSU or Reverse-PoE injector

**Dimensions (WxDxH):** 2.5" x 3.7" x 1.2"



**CPU:** Dual-core 1.0 GHz

**RAM:** 2 GB

**Disk Drive:** 8GB

**GigE**

**Ethernet NIC:** 10/100/1000 Mbps (RJ-45)

**Power consumption:** 4W to 8W AC 110V and 220V

**Power supply:** External PSU

**Dimensions (WxDxH):** 5" x 4" x 1"



**CPU:** 1.2 GHz quad-core ARMv8

**RAM:** 1 GB

**Disk Drive:** 8GB

**WiFi**

**Ethernet NIC:** 10/100 Mbps (RJ-45)

**Power consumption:** 3W AC 110V and 220V

**Power supply:** External PSU or Reverse-PoE injector

**Dimensions (WxDxH):** 2.5" x 3.7" x 1.2"

**WiFi Card:** 802.11ac based on ASUS AC56



Self-contained virtual machine

**Virtual**

- Format: OVA, OVF, KVM
- Platforms: vSphere, Cisco UCS, vBox, KVM

Cloud-based instance

## External

- Amazon Web Services AMI
- Google Compute Engine instance
- Other cloud services (Azure, RackSpace, ...)

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**Software** Gnu/Linux operating system

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## Features

### End-to-End Measurements

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

#### PING

- End-to-End connectivity
- Packet Loss
- Round-Trip Time
- DSCP marking
- MTU and DF setting

#### TCP-based PING test

- Round-Trip Time
- Packet Loss
- Custom port
- DSCP marking
- MTU and DF setting

#### DNS

- Availability
- Query time

#### HTTP

- Availability
- Response time

### Traceroute

- Number of hops
- TCP/UDP/ICMP protocol
- Path-MTU
- Hop-by-Hop RTT
- DSCP marking
- 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
- G.711, G729, G723, G.726, G.728

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### Alerts

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.

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

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### 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 on

- Agents availability
- Agents uptime
- Monthly

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### 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

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### Wireless Monitoring

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

#### Wireless authentication

- Open
- WEP
- WPA2
- EAP Methods
- Guest Internet Access

#### Wireless metrics

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