



NETBEEZ®

Detect problems before users do

NetBeez: Technology Overview and Benefits

Introduction

NetBeez is a distributed network monitoring solution that provides network engineers with real-time and historical performance data from the user layer to quickly detect and solve the most complex issues on LAN, WAN, and WiFi networks. NetBeez detects network connectivity and performance issues through dedicated monitoring sensors, or agents, that simulate user interaction with intranet and Internet applications across wired and wireless media.

NetBeez's primary users are network and WiFi engineers, architects, and NOC operators who must provide proactive detection of performance degradation issues and a quick response to network and application issues. IT managers and directors use this data to identify underperforming areas of the enterprise, justify network upgrades with performance reports, and plan network refreshing with quantifiable data.

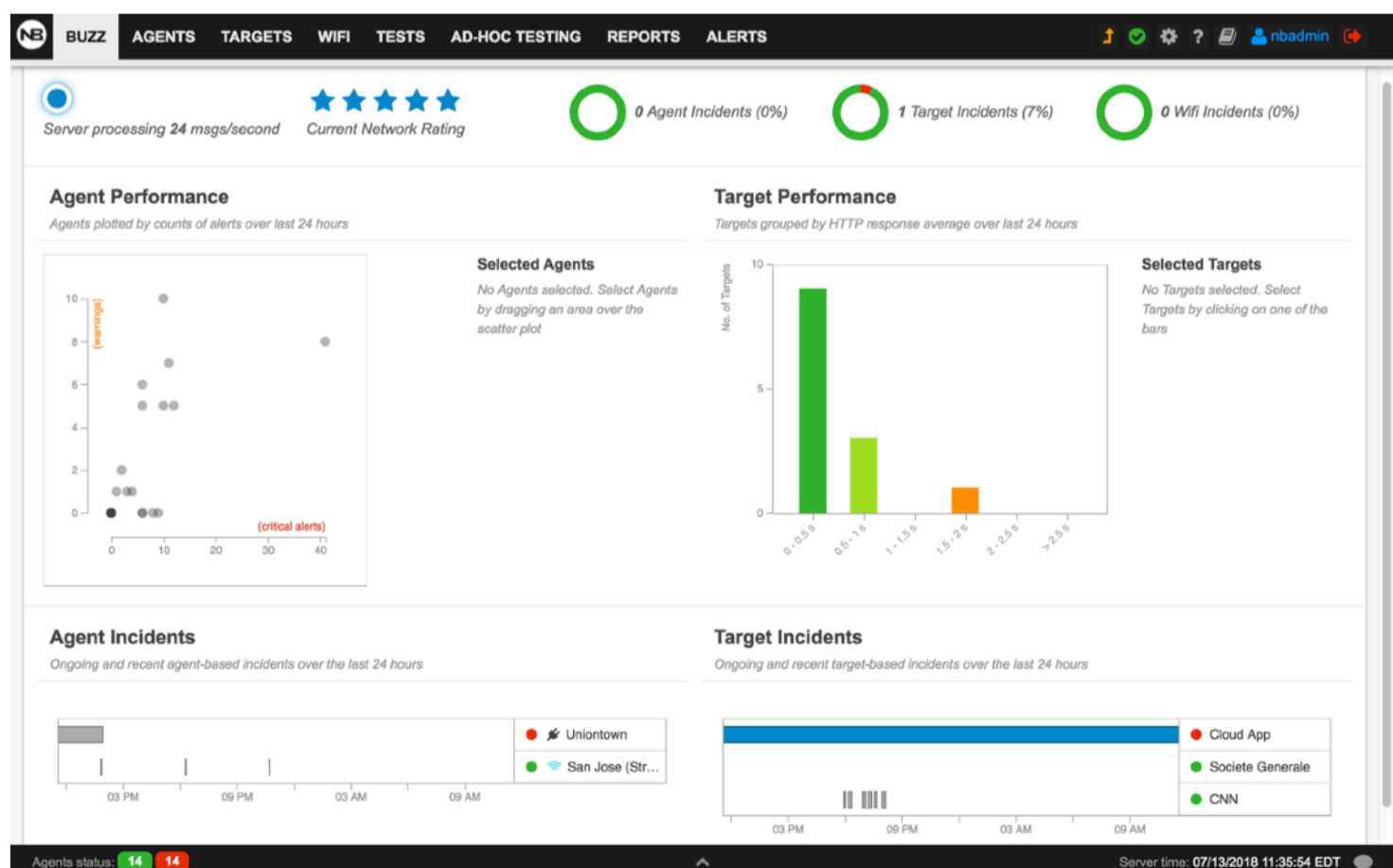


Figure 1. The NetBeez dashboard is user-friendly, multiuser, and multirole.



FastE wired
Easily deployed to remote locations



GigE wired
High throughput assessment



802.11ac
Verify WiFi performance



External
Run tests from public clouds



Virtual
Deploy it at data centers

Figure 2. The NetBeez monitoring agents support any network environment: small branch offices, large corporate locations, wireless infrastructures, data centers, and cloud networks.

Architecture

NetBeez runs on client-server architecture and is composed of plug-and-play hardware agents that are managed and controlled by a central server. The central server runs the database, the agents' controller, and the browser-based dashboard (developed with HTML5 technologies). The central server runs in the cloud or on-premise as a virtual appliance.

Use Cases

Use Case	What is it?	NetBeez Solution
Proactive Detection	Detect network problems as soon as they occur, before the users report them to the help desk.	Active monitoring tests performed by monitoring agents installed at remote locations where the users sit.
Network Troubleshooting	Simplify troubleshooting of network problems that can cause interruption of network services or applications.	Pinpoints network versus application issues by correlating alerts under agents or targets.
Performance Monitoring	Build a performance baseline of a network infrastructure to identify areas where there are problems.	Setup network telemetry tests like ping, iperf, and speed test from across a network infrastructure.
End-User Experience	Verify the overall experience of the end-users against wifi and cloud or web applications.	Simulate user interaction to web applications via WiFi and Ethernet sensors deployed at remote sites.

Benefits

NetBeez is a user-friendly solution and provides quick access to network performance data that other services are not able to provide. Benefits of using NetBeez include:

Quick ticket escalation

- Trend analysis of real-time monitoring data collected from all network locations enables quick detection and escalation of network and application performance degradation issues.
- NetBeez enables service desk and network operators to take action when network issues arise without relying on expert level engineers.
- NetBeez can be easily integrated with other existing network monitoring tools by sending SNMP traps, email alerts, or through the API.

"With NetBeez, we are able to see how traffic is routing back to our data centers from the local offices, which helps us identify latency, packet loss, and asymmetric routing problems. With over 50 targets configured in NetBeez currently, we can monitor not only resources our users connect to in our data centers, but access to resources in the cloud."

Eric Goodwin,
Systems Architect,
Veterans United Home Loans

Reduced time to detection and repair

- Dedicated monitoring agents collect information that otherwise has to be retrieved by onsite personnel or dedicated workstations.
- The high frequency tests run by the agents provide quick detection of connectivity and performance degradation issues on any wired or WiFi network.

Reduced human-driven outages

- NetBeez agents perform continuous reachability and network availability tests, providing a convenient approach for validating configuration changes.
- Real-time tests can detect network outages within 25 seconds.

Improved IT governance

- Generate network performance and availability reports that can be used to pinpoint network segments that underperform or to enforce Service Level Agreements with service providers.
- The NetBeez dashboard offers a simple and intuitive way to get a clear picture of the status of the network as seen by the end users.

Users

NetBeez's primary users are network and WiFi engineers, architects, and NOC operators who must provide proactive detection of performance degradation and a quick response to network and application issues. IT managers and directors use this data to identify underperforming areas of the enterprise, justify network upgrades with performance reports, and plan network refreshing with quantifiable data.

Why NetBeez?

Existing network monitoring tools are built upon the standard Simple Network Management Protocol (SNMP), which was designed to allow network devices to send alerts to an SNMP server when they detect a hardware failure or other conditions that require administrative attention. While this protocol is useful to get alerts from network components, it's not capable of detecting and notifying the network operator of connectivity and performance issues that affect the end user. To solve this problem, an additional end-user-centric layer of monitoring is needed to detect and immediately report outages that impact users. Such a system would not replace the role of an SNMP server, which is still needed to monitor the network hardware, but would complement its function by providing a more complete picture of the network and its services. NetBeez is designed to meet these needs, while providing enterprises with a solution that integrates well with existing network management software.

Subscriptions

NetBeez is offered as a SaaS subscription service with a variety of plans to fit your needs. Plans include software updates, online support, maintenance, and replacement of the hardware agents. The service can be fully hosted in the cloud or on-premise.