

IBM Tivoli software

Mazu[™]
NETWORKS



MAZU NETWORKS IBM TIVOLI NETCOOL/OMNIBUS

Many major enterprises rely on Netcool/ OMNibus to consolidate the management of networks and multiple management systems and tools under a single view. Yet companies still struggle to protect their assets and applications. **So what's missing?**

Behavior Analysis, Continuous Global Visibility, Integration with Existing Network Management Products

Behavior Analysis

Behavior analysis enables you to understand what's happening on the network and how a threat or event is affecting your system and users. Without behavior analysis, it can be difficult to take action with confidence.

Continuous Global Visibility

Continuous global visibility is critical in today's complex network environment. There are so many places to watch for so many types of threats. The more visibility you have, the more confident you can be in the protection of your network.

Integration with Existing Network Management Products

Your ability to address and recover from an event is only as good as your response capabilities. In order to ensure maximum response with minimum damage and disruption, you need integration with the network management products already available in your environment.

Mazu and IBM Tivoli Netcool/OMNibus

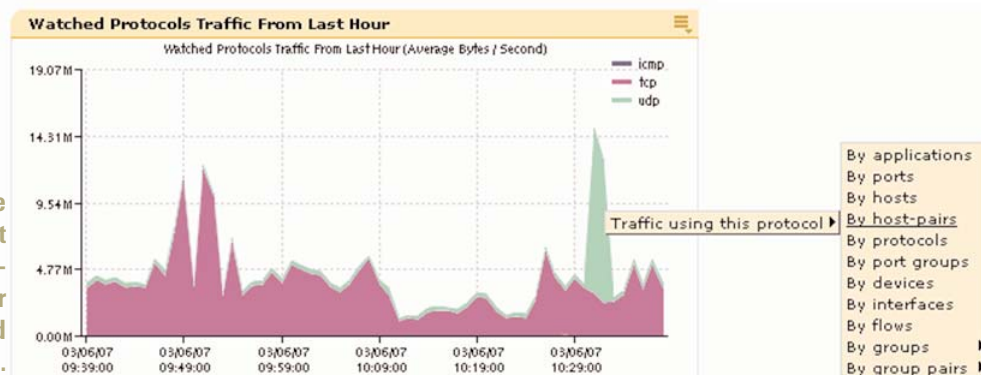
IBM Tivoli and Mazu Networks have teamed up to address this problem. Mazu's Network Behavior Analysis (NBA) system and Tivoli's Netcool/OMNibus system have been integrated to increase the behavior analysis, continuous global visibility, and integration with existing network management products.

Tivoli Netcool/OMNibus consolidates the management of networks and multiple management systems and tools in a single view. The software helps make it easier for enterprises to manage problems across large, heterogeneous networks and IT silos and, thereby, reduce costs and improve overall productivity.

Mazu provides continuous global visibility into how users, applications, hosts, and devices are behaving on a network, and detects if there are meaningful changes from their typical behavior that indicate a network performance issue, a security threat, or an application problem. Through Mazu, enterprises understand usage patterns, consumption rates and dependencies between users, applications and network infrastructure.

Mazu's behavior analysis, providing improved response effectiveness network activity information, can be accessed via the Tivoli Netcool/OMNibus user interface. This information on how an event is affecting the network and the services running on it enables enterprises to better understand the impact of event response actions.

User complaints correspond to the traffic spike (the green spike that occurred at 10:30). You can right-click on the report for host pair or or applications information to find cause of spike.



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Continuous Global Visibility

Routers and switches are ubiquitous across the network. Because Mazu monitors flows from the routers and switches, integrating Mazu with Tivoli Netcool/OMNIBUS doesn't just add one more security device, it effectively adds visibility into every application using the network as well as the behavior of those applications.

Easy, Intelligent Integration with Existing Enterprise Management Systems

Mazu delivers mitigation options making it easy to respond to an event via the network infrastructure. Impact analysis capabilities ensure that critical business processes are not needlessly disrupted by response actions.

Typical Integrated Workflow

There are two typical workflows for an integrated solution in a Network Operations Center.

In the first workflow, an alert is received by Netcool from a network device; for example, a router reports that a link is saturated. As the NOC operator views the alert, the first step is to generate a Mazu traffic report directly from the Netcool GUI for the affected router interface. The Mazu traffic report provides a comparison of the traffic before and after the potential incident to what is typical for that interface. This makes it quick and easy to identify the problematic traffic and determine its source. Mazu will provide the identity of the source to facilitate remedial action.

The second workflow is driven directly by an event generated from Mazu. Mazu will identify significant changes in the traffic mix through the network or surges in traffic before they negatively affect the network's ability to sustain normal operations. When the Mazu alert appears on the Netcool GUI, the NOC operator can, with a single mouse click, drill back down to Mazu for a complete view of the potential problem including information such as user identity, switch ports involved, protocols, applications, and traffic volume. A mitigation plan for addressing the issue is presented along with an analysis of the collateral damage to typical traffic if the mitigation plan is implemented.

More information and access to the Mazu integration for IBM Tivoli Netcool can be found at:

<http://www.ibm.com/software/tivoli/opal/ncomnibus?NavCode=1TW10NC0N>



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About Us

Mazu Networks

Mazu Networks provides continuous global visibility into how users, applications, hosts and devices are behaving on a network, and detects if there are meaningful changes from their typical behavior that indicate a network performance issue, a security threat, or an application problem. Through Mazu, enterprises understand usage patterns, consumption rates and dependencies between users, applications and network infrastructure. Only Mazu offers continuous global visibility, automatic and custom behavioral analysis benefits for network operations, and security and superior integration with network and security products. Mazu Networks' customers optimize their network operations, secure their internal networks and maximize application availability.

IBM Tivoli

Tivoli software from IBM helps organizations efficiently and effectively manage information (IT) resources, tasks and processes in order to meet ever-shifting business requirements and deliver flexible and responsive IT service management, while helping to reduce costs. The Tivoli portfolio spans software for security, compliance, storage, performance, availability, configuration, operations and IT lifecycle management, and is backed by world-class IBM services, support and research.