IMaster NCE-FabricInsight-G

Datasheet

Product Overview

The IMaster NCE-FabricInsigh-G is an intelligent analysis platform for data center networks. Based on big data analysis technology, it provides users with ubiquitous network application analysis and visual presentation, bridging the boundary between applications and networks.

The IMaster CE-Fabricinsigh-g Telemetry collects network scene data, presents network quality in real time, collects full flow at key locations in the network/collects ERSPAN flow within the Fabric, realizes application network association analysis and one-click fault diagnosis, and protects data center applications.

Product Features

Cyber Health Assessment

• Five-layer system: Based on 5 layers of 50+ network resources modeling, see all

• Assessment ability: network Kanban + health report, build a systematic health network

Fault 1-3-5

• Network failure: 90+ typical fault analysis, mass log intelligent traceability

• Risk assessment: 40+ intelligent network risk assessment, active network operation and maintenance

Application View

• Fault diagnosis: cross-cloud cross-plant road condition hop by hop analysis, application of one-key fault diagnosis

• Business reassurance: integrated analysis of business and network to proactively ensure business experience

Technical Specification

	Peculiarity	Description
Cyber Health Assessment	A Comprehensive Cyber Health Assessment	Model the whole network based on the knowledge graph, take care of the whole network quality 7*24 hours, visualize the state of the whole network resources and analyze the performance indicators such as traffic/bandwidth/packet loss; At the same time, dynamic detection of key indicators abnormal and active report; Push health assessment reports in real time or regularly to help operation and maintenance personnel "read the network" to improve operation and maintenance efficiency and business experience quality.
	Telemetry-based Full-scenario Network Visibility	GRPC collects indicator information such as device, board, queue, port, and entry, and presents the dynamic baseline range of each indicator based on the machine learning algorithm. The system can quickly locate the moment when the baseline exception occurs, and proactively identify the problem before service interruption. At the same time, the abnormal points are automatically associated with the affected service flows, and users can view the data such as the prevalence of link establishment failures passing through the device at the abnormal time point.
	IP 360 Management	Provides IP 360 panoramic analysis to quickly understand the distribution of the current number of online VMS and TOP access VM switches, helping the network plan resources in advance. In the event of an exception, FabricInsight supports whole-network VM lifecycle management, enabling VM offline, migration, and online recording to be visible in real time. It also provides whole-network IP snapshot analysis to compare all IP changes before and after network changes and check whether anomalies such as offline exist.
	Visibility of Network Changes	Provide network snapshot management, automatically and manually synchronize 17 network snapshots of device configuration, entry, topology, capacity, and performance, automatically analyze the differences before and after changes, and the detection results are clear at a glance.

Fault 1-3-5	Malfunction 1-3-5	Telemetry based on the whole network management surface, forwarding surface and data surface data collection, abnormal problem detection 1 minute; Realize 3-minute automatic reasoning of faults and hidden causes through knowledge graph, and provide effective repair suggestions; At the same time, it can interwork with iMaster CNE-Fabric-G controller, recommended priority fault handling plan, and typical faults can be quickly recovered in 5 minutes.
	Intelligent Source Tracing of Massive Logs	Provide rapid reasoning and aggregation capabilities of logs, quickly identify root causes of faults based on knowledge graph and AI algorithm, present fault propagation path, identify influence scope, rely less on expert experience, and greatly improve analysis efficiency.
	Risk Assessment	Based on the systematic modeling of the network, the data center network reliability, consistency, performance load, capacity, stability and other dimensions of reasoning analysis, to provide systematic network risk assessment and predictive maintenance recommendations. During network health inspection, operation and maintenance personnel can use the risk assessment function to identify network risks in advance, handle the closed loop before the service is damaged, and ensure the network service quality.
	Intelligent Analysis of Network-wide Logs	Support the whole network log event visibility, L0-L6 multi-dimensional trend, distribution statistics and details at a glance; At the same time, support abnormal log noise reduction and convergence, the system presets 200+ default aggregation and clearing rules, and can also manually customize rules to improve log analysis efficiency.
Application View	Emergency Diagnosis	FabricInsight enables Fabricinsight to search the DC forwarding path of real service flows based on source and destination IP information and identify the status of devices, interfaces, links and other objects in the path by mirroring key nodes and ERSPAN feature packets. To realize the association analysis of application network and the one-click diagnosis of application on-off/quality difference faults; Provide double proof of network traffic condition and real message of application interaction, and the data can be trusted and backtracked.
	Application Reassurance	FabricInsight is based on xFlow intelligent full flow analysis and overlay network monitoring capabilities to enable integrated monitoring of application networks. More than 140 performance indicators can be monitored in real time (70+ device-centric network core indicators + 70+ flow-centric application core indicators). It can actively evaluate the application experience and network quality of a single system. For key businesses, the key business view is defined in advance -- clear the call chain in the process of business interaction, such as payment business and individual loan business, to achieve real-time monitoring of business quality from application to network end to end.

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