FabricInsight

Insight into Network and Application
Heralding the DC Network Intelligent Analysis Era

Logic Diagram

Data center

FabricInsight

Network visualization

Application visualization

Flow visualization

SYN — SYN ACK — FIN — FIN ACK

Spine1

Leaf1   Leaf2

Five Highlights

Real time

- Based on the Telemetry technology, collects and displays TCP service flows and performance metrics data on the entire network in real time.

Big data

- FusionInsight big data platform + artificial intelligence engine
- Search ten billion data records in seconds.

Intelligence

- Mutual visibility between applications and networks, facilitating second-level fault identification
- Abnormal detection based on machine learning and intelligent fault identification and analysis

Mobilization

- CloudAPP Platform enables you to learn about the network health anytime anywhere.
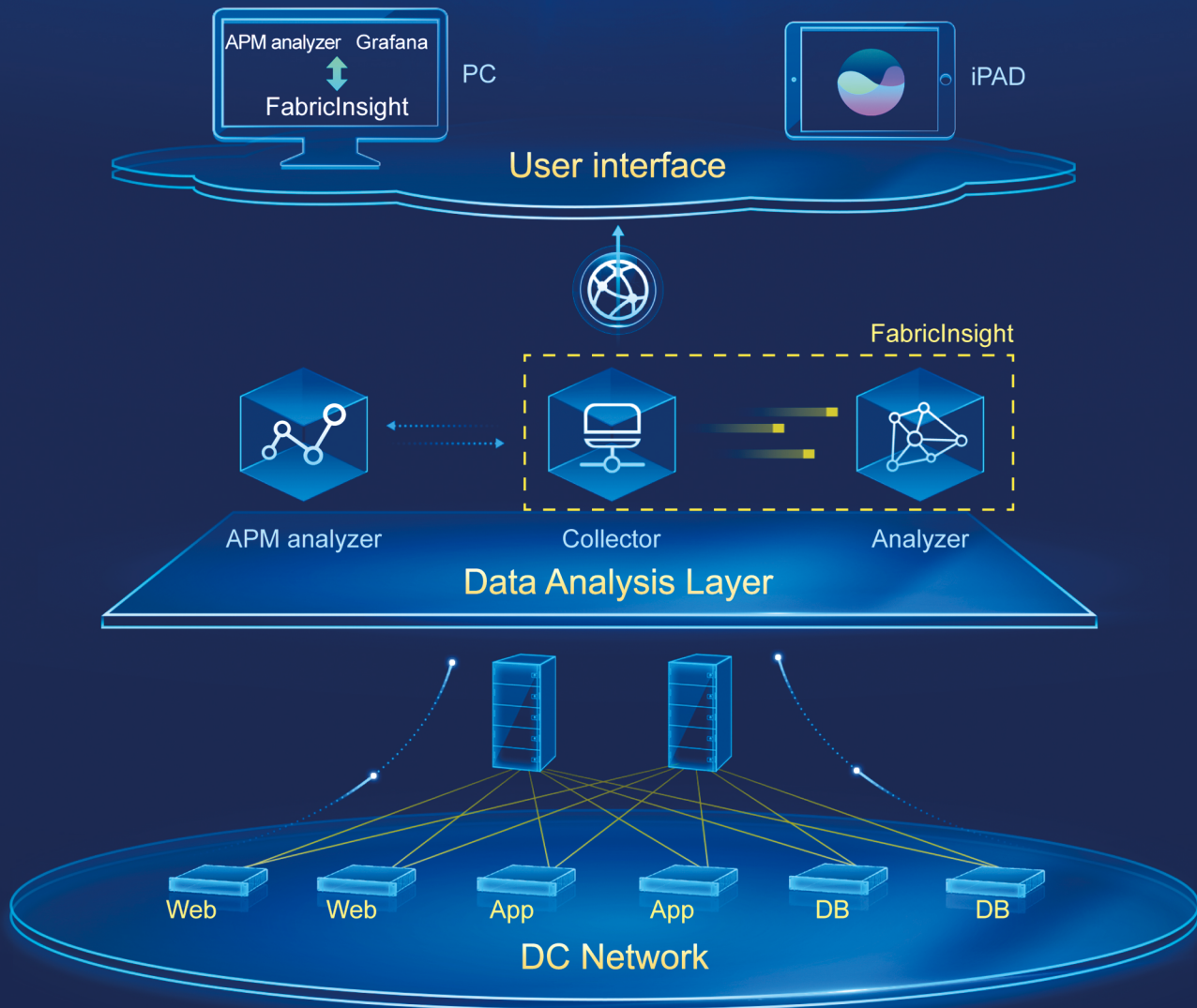
Openness

- Open architecture-based APIs support interconnection with third-party application systems in the northbound direction. The NPM and APM work together to provide E2E O&M evaluation.

Three Application Scenarios

Quick fault identification and backtracking

Network health awareness

Service change and migration

Huawei FabricInsight: Data Center Network Analyzer

Architecture

APM analyzer Grafana

FabricInsight

PC

iPAD

User interface

FabricInsight

APM analyzer

Collector

Analyzer

Data Analysis Layer

Web Web App App DB DB

DC Network

Benefits and Features

Application and Network Visualization Second-level Fault Identifying

- Intelligently draw the application map and refine network policy evaluation to the port level.
- Automatically associate abnormal applications with faulty links, implementing second-level fault identifying.

Locating Historical Fault Precisely Searching Ten Billion Data Records in Seconds

- Search ten billion data records in seconds, process millions of packets in a seconds.
- Multi-dimensional network data visualization, millisecond-level detection of historical microbursts.

Real Network Quality Evaluation Proactive Risk Prediction

- Based on Telemetry, collect network-wide real traffic, evaluate the network SLA, and identify and analyze abnormal network flows.
- Detect network exceptions based on machine learning, proactively identify service changes.
- Predict faults of devices and optical modules, rectifying risks in advance.