

How Active Network Performance Monitoring can be Applied to Hybrid Cloud

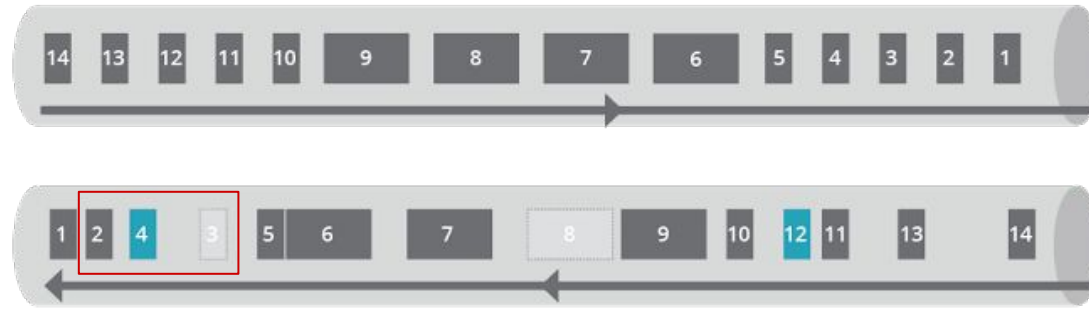
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Methods

Single Ended



ICMP packets →

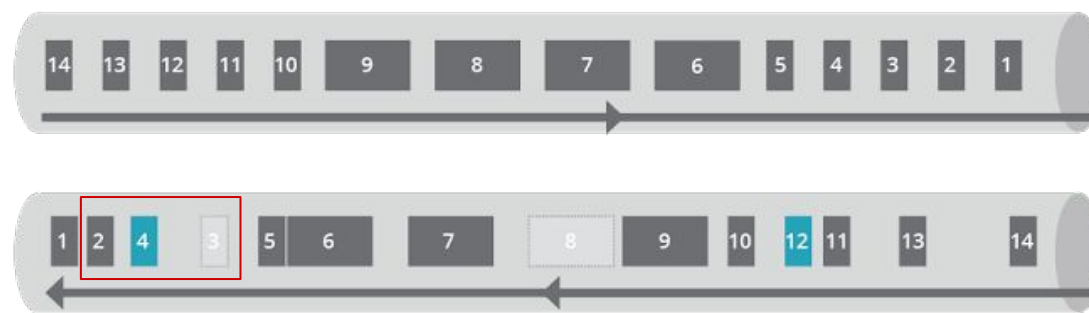


Performance metrics derived from distortion on the returned packets

Dual Ended



UDP packets →



← UDP packets

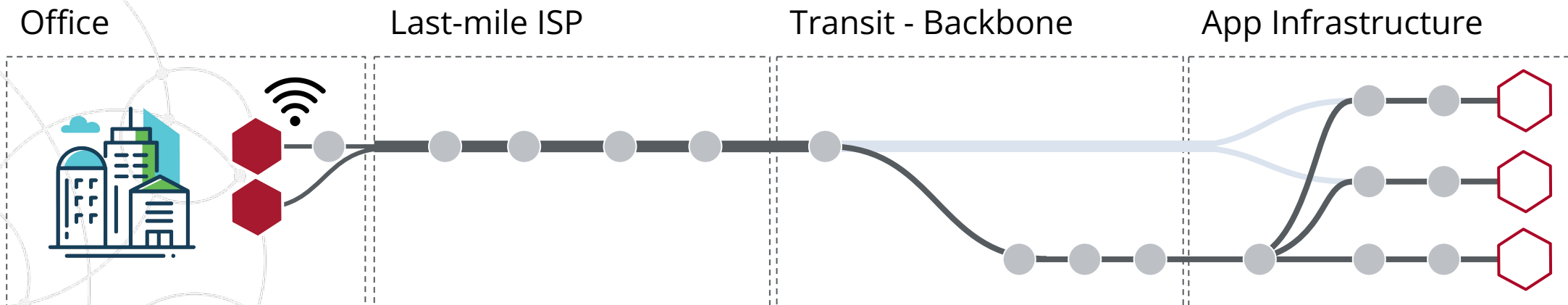
Methods

Owned Infrastructure

- Topology - WHERE is the problem
- Device metrics
- Access - WHO can solve the problem
- Permanent
- App metrics

Cloud & SaaS Apps

- No knowledge of topology
- No access to device metrics
- Can't access devices
- Ephemeral
- App metrics



Key Value of Active Monitoring

Continuous Testing

Performance monitoring from the user perspective allows for early detection and proactive mitigation as well as SLA validation

Business Reporting

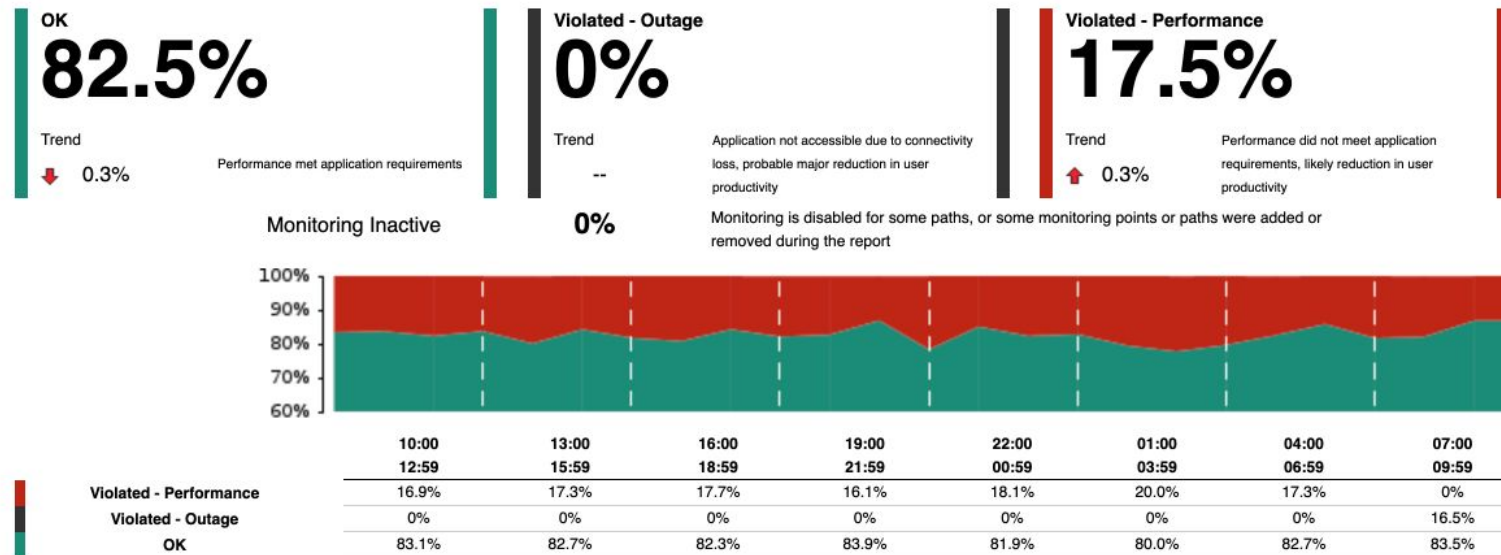
Take performance reports to the next level by providing service-owners with visibility

Prove Innocence

Last-in blame is a real phenomenon so protect your hard work with root cause metrics

Key Metrics | Service Quality

- Focus on end-user experience, not just uptime/availability
- Report on key apps
- Dive into details for triage when necessary



Top 3 Best Practices

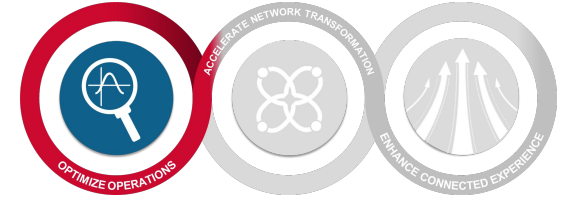
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The “WHAT”
Know your
business-critical
apps

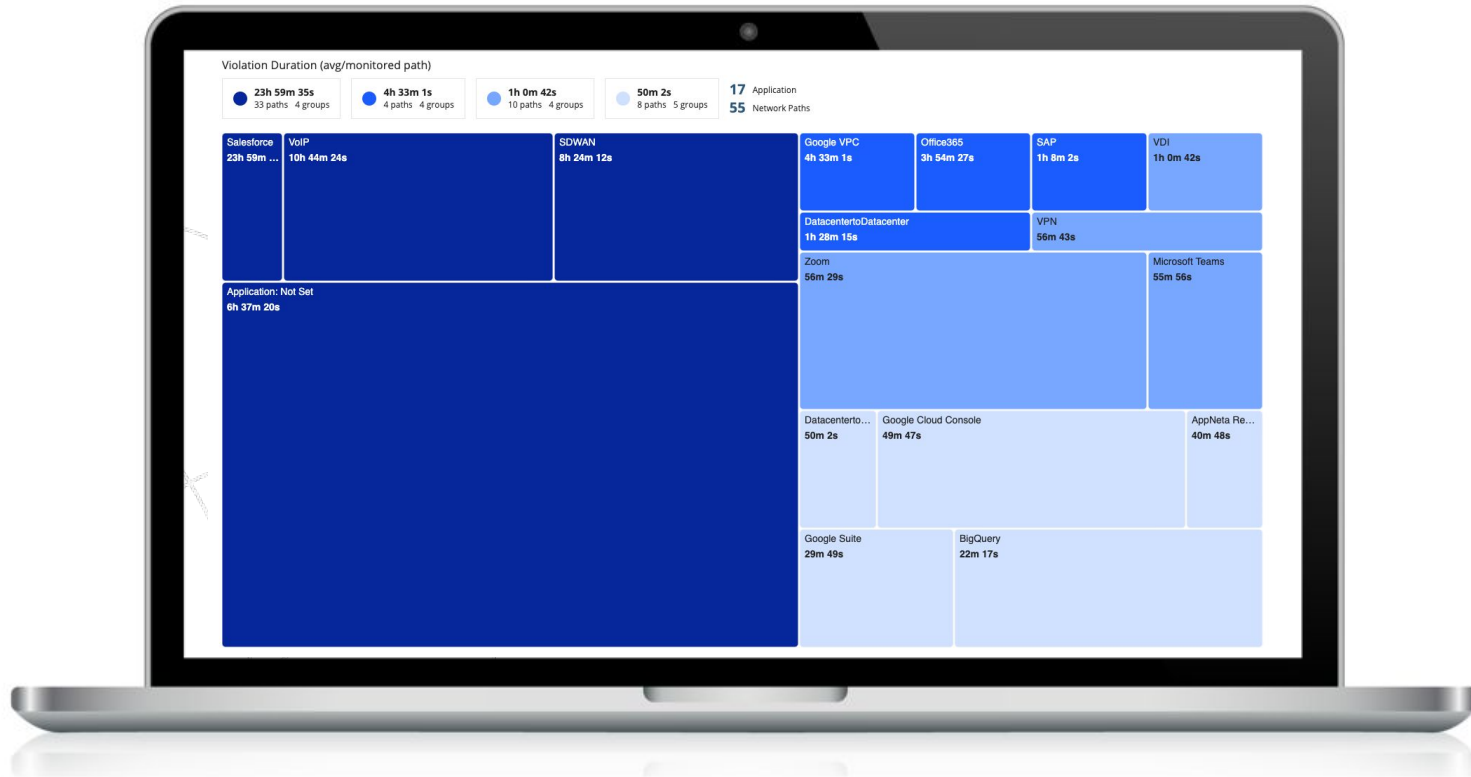
The “WHERE”
Isolate the
networks that
support you

The “WHEN”
Baseline your
performance
over time

Critical Application Coverage

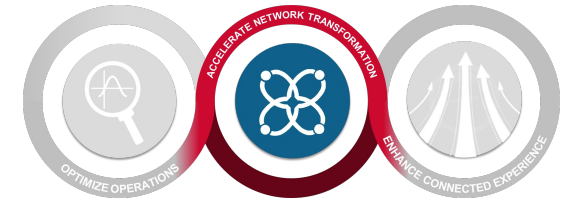


Key experience and capacity metrics from end-user experience locations

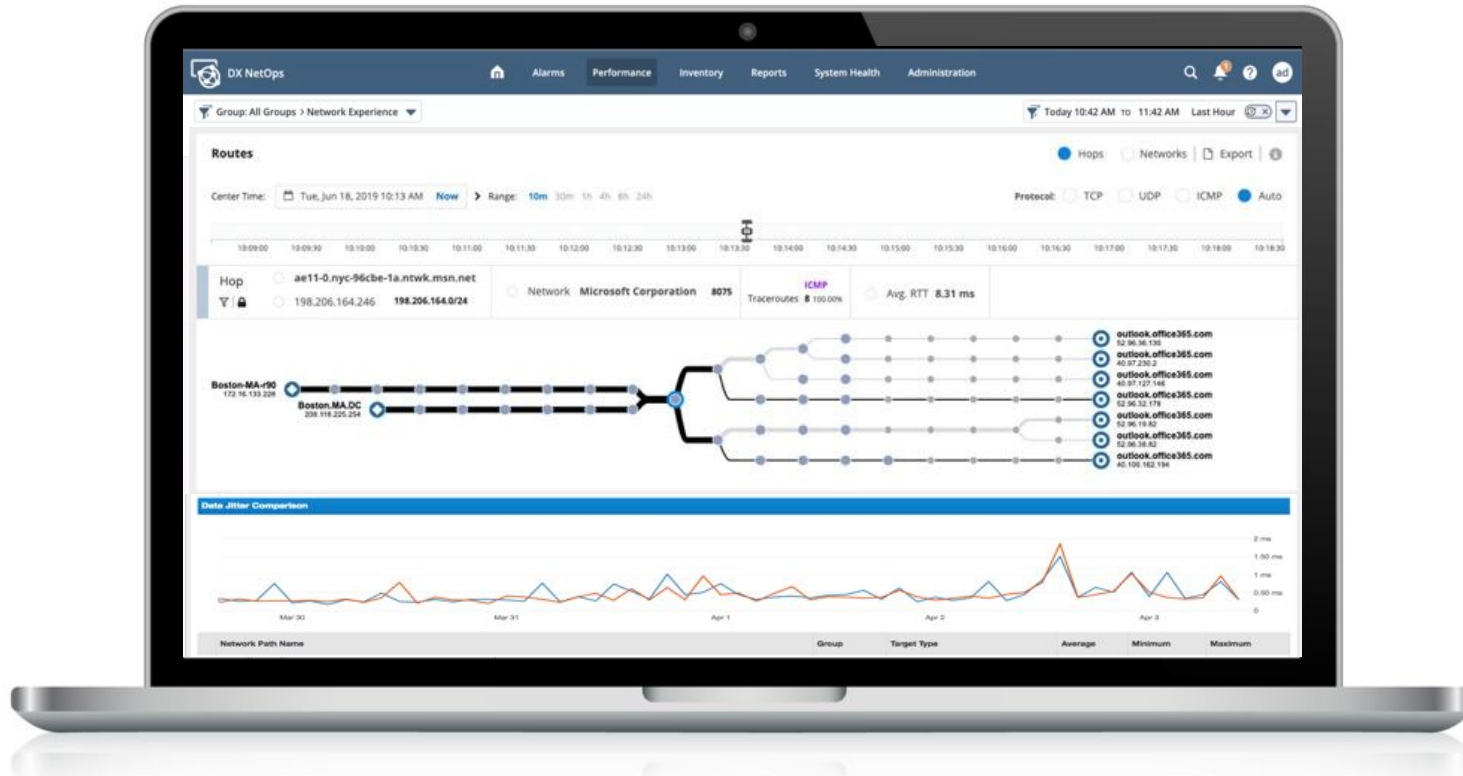


- High-level troubleshooting dashboards to isolate where to allocate IT resources
- Deep Packet Inspection to identify key apps
- Per-app, per-location, per-user visibility
- Hop by hop latency, packet loss and jitter
- Unified alarm to performance triage workflows simplifies access to key metrics

Identify Dynamic Network Routing

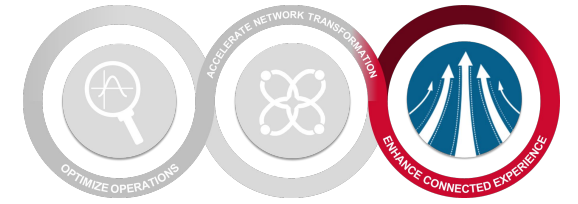


Real-time status and performance of routing through ISPs and Cloud networks



- Real-time status and performance of routing
- Overlay and underlay granular insights
- Visualized ISP network path/segment topology
- Route and BGP AS path change visibility
- Benchmark & compare your services for SLA validation, issue mitigation and proactive alerting
- Hold ISPs accountable for performance

Baseline Application Performance



Continuous visibility into end-user experience of business-critical applications



- User experience metrics correlated to network performance
- Route and BGP path change visibility
- Layer 3 topology discovery of all ISP network paths
- Network segment visualization for granular insights
- Data loss, capacity violations across entire network path
- Set thresholds for 24/7 proactive alerting

Demo

