Research and education networks are the original "hybrid" networks — part service provider, part enterprise. With the global pandemic putting remote learning on the rise, managing the complexity of these networks is harder than ever. On top of that, students and researchers are demanding better performance, higher availability, and more bandwidth for critical applications, while the pressure remains for network teams to do more with less. Fortunately, the Kentik Network Intelligence Platform can turn the tide by leveraging data you already have to reduce network costs, increase availability and performance, and improve team efficiency.

Service Assurance

Proactively detect network performance, availability, and security issues campus-wide. Get the data to resolve incidents quickly with lightning-fast queries, months of retained details, and flexible filtering and grouping.

- Reduce MTTD / MTTR
- Increase staff productivity
- Improve network experience for students, staff, and researchers

Peering and Traffic Engineering

Identify opportunities to improve cost and performance by shifting traffic away from paid IP transit to private interconnection, exchanges, or high-performance backbones like Internet2.

- Reduce OPEX and defer CAPEX associated with capacity upgrades
- Improve performance for users and high-bandwidth research applications

Capacity Planning

Gain integrated insights into network capacity, utilization, and traffic composition across dorms, departments, and campuses. Trend changes over time to understand growth and predict future capacity needs and budget.

- Improve staff efficiency with automated planning processes
- Eliminate congestion caused by over-capacity surprises
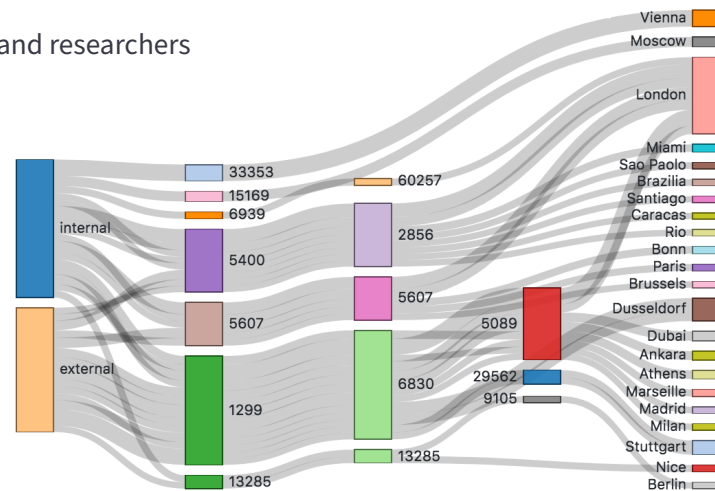
KEY DIFFERENTIATORS

Easy deployment and lower TCO with SaaS delivery model

Answers time-critical questions in seconds with unmatched query performance

Retains full detail for months without roll-ups or aggregation

Simplifies workflows for each user and role with fully customizable views and dashboards

Automatically detects traffic anomalies like spikes, outages, DDoS, and traffic shifts using a powerful streaming analytics engine

Instantly labels network data with OTT/CDN, subscriber, geo, and routing data for deep context

DDoS Detection and Mitigation

Get the industry's most accurate and automated DDoS detection and triggering, and give security and operations teams detailed forensic capability. Drive automated mitigation actions via routing policy, or trigger mitigation services.

- Reduce service impacts
- Prevent student-associated attacks from affecting critical business or research applications
- Spend less staff time on intervention

CDN and OTT Traffic Analytics

Automatic CDN and OTT service name labels provide deep understanding of per-service network utilization, regardless of where traffic originates: public or private CDNs, on-net or off-net caches.

- Understand which external services are driving network traffic growth
- Reduce costs associated with delivering commodity internet traffic to students

Cloud Visibility

When applications from e-learning to online course registration move to public cloud, the network is often an afterthought. But understanding what happens on cloud networks is still essential to understanding cost and ensuring application performance and security.

- Get a unified view of each application's network footprint across traditional and cloud infrastructure
- Manage cloud application cost, performance and security
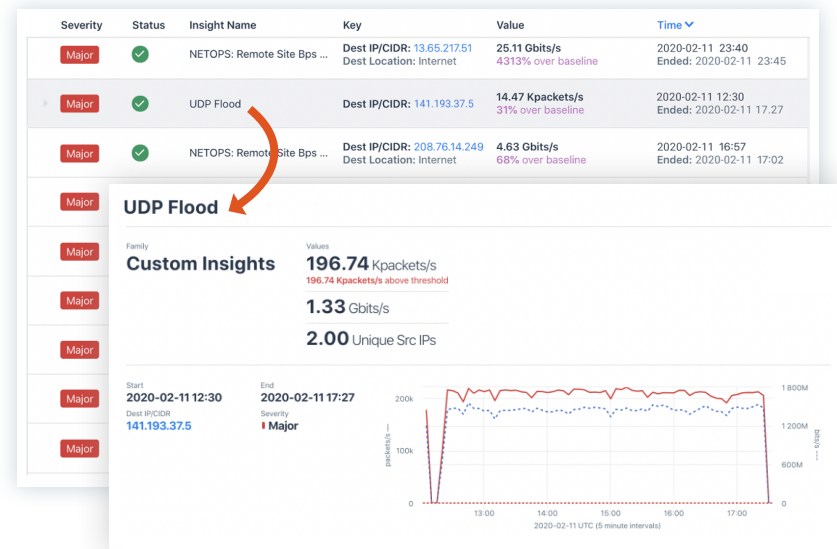
"*Kentik provides us network visibility we have never had in the past. We quickly see high-level status of network attackers with the ability to drill down to understand what response is required. Previously, we needed to already know what we were looking for in our NetFlow data, now the data informs us.*"
— *Security Manager, University of Maine*

Revised 20200803