

Test and monitor everything. Investigate what matters.

Many businesses today are blind to the digital experiences of their customers and employees until a performance issue occurs. Network teams use synthetic monitoring to proactively test for performance elements, but traditional tools cannot auto-configure or adapt to ever-changing internet traffic and paths. Without providing actual network context, these tests result in time-consuming, manual configurations and guesswork that can negatively affect network performance.

Test type by network layer

WEB/APP	DNS
<ul style="list-style-type: none"> ▶ Browser Page Load ▶ HTTP/API ▶ Transaction Testing 	<ul style="list-style-type: none"> ▶ DNS Server Monitor ▶ DNS Grid
ROUTING	NETWORK
<ul style="list-style-type: none"> ▶ BGP Event Tracking ▶ AS Path Viz ▶ Prefix Reachability Tracking ▶ AS Path Change Tracking 	<ul style="list-style-type: none"> ▶ IP/Hostname ▶ Mesh/Grid ▶ Agent to Agent ▶ Trace/Path ▶ Autonomous (ASN, CDN, Country, Region, City)

Agent types

PUBLIC • Kentik Hosted/Managed		
Cloud	Non-cloud	Broadband
PRIVATE • Customer Hosted/Managed		
Debian	RPM	Docker
Deploy on-prem or in cloud instances		
Lightweight – can run on Raspberry Pi or similar		

Monitor essential infrastructure, applications and services

SaaS solutions

Applications hosted in the public cloud

Internal applications

Transit and peer networks

Content delivery networks

Streaming video, social, gaming, and other content providers

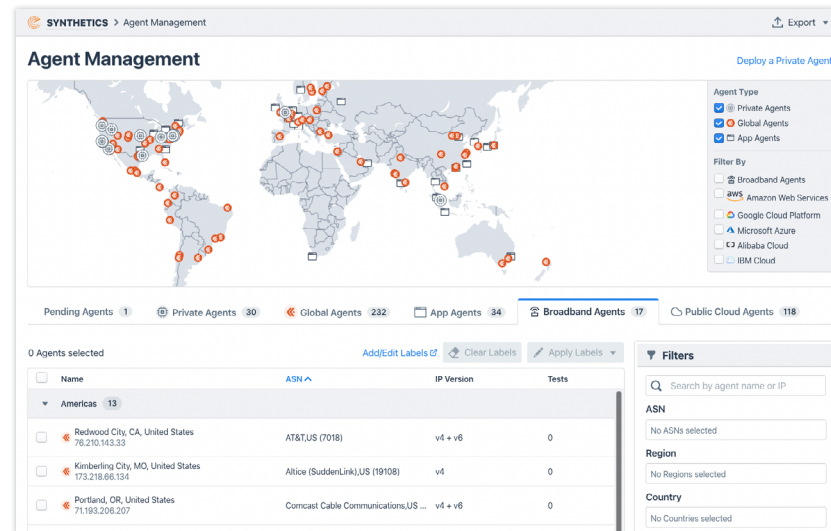
Site-to-site performance across traditional WAN and SD-WANs

Service provider connectivity and customer SLAs

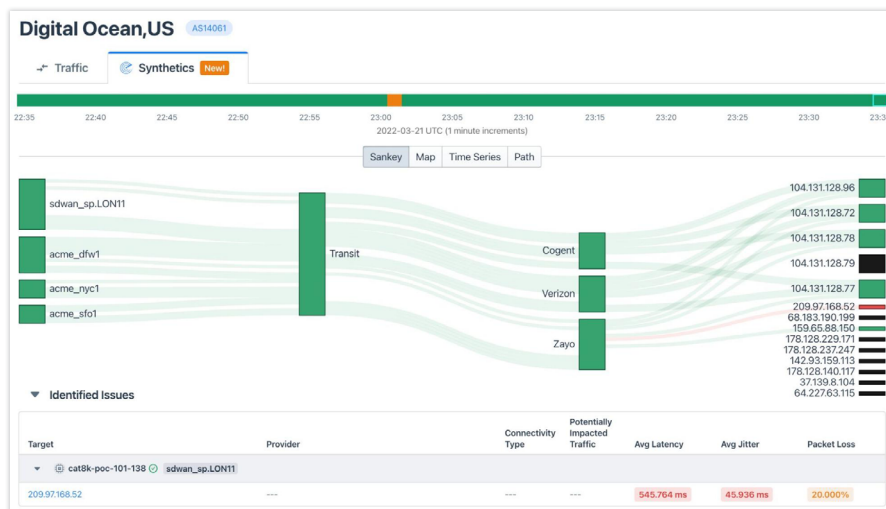
With Kentik Synthetics, part of the Kentik Network Observability Cloud, network teams now have a solution that integrates performance monitoring with full network context. Network pros can automate test creation and get the context needed to make the test results actionable.

Test to/from anywhere

Emulate the performance of applications for your global users. Test from any region in public cloud providers. Use our public agents and augment with private agents in your own network. Test web applications using app agents. Manage agents, tests and data with an API. The Kentik Global Synthetic Network includes 200+ strategically positioned global agents in internet cities around the world and in every cloud region within AWS, Google Cloud, Microsoft Azure and IBM Cloud.



▲ Kentik agents are placed globally in hundreds of strategic locations and are accessible by any user.



Autonomous tests

Autonomous tests allow testing towards a higher-level entity (ASN, CDN, country, region or city) without having to specify individual IP addresses. IP addresses are determined automatically, based on actual network traffic, and are kept up to date via periodic refreshes.

◀ Sankey view of an ASN autonomous testing

Key capabilities

Autonomous testing

Instant site-mesh test setup

Network and application layer testing

Correlation of synthetic performance metrics with real traffic

200+ global agents covering all major cloud providers and regions

Private agents for x86 and ARM

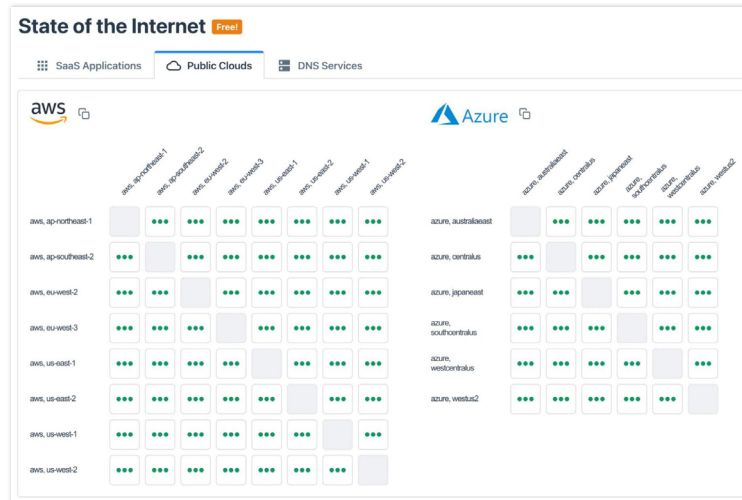
Configurable test frequency down to sub-minute

Intelligent alerting and diagnostics

The State of the Internet at a glance

Monitor the state of SaaS applications, in and between public clouds and DNS service providers. Access hundreds of our agents across the globe or easily deploy your own so that you can monitor what's important to you. Quickly identify whether your infrastructure, the cloud, or an application is the root cause of an issue. At no additional cost, you can see all of our results on the state of the internet.

Kentik provides critical state of the internet views for SaaS apps, public clouds and DNS services on individual tabs. ▶



Key innovations

Richest BGP data set with real time updates and alerting

Easy mesh setup for large scale PoP-to-PoP performance monitoring

Correlation of synthetic performance metrics with real traffic

Autonomous, scenario-based testing

Kubernetes monitoring

Deep (traceroute driven) path visualization (infused with SNMP and traffic data)

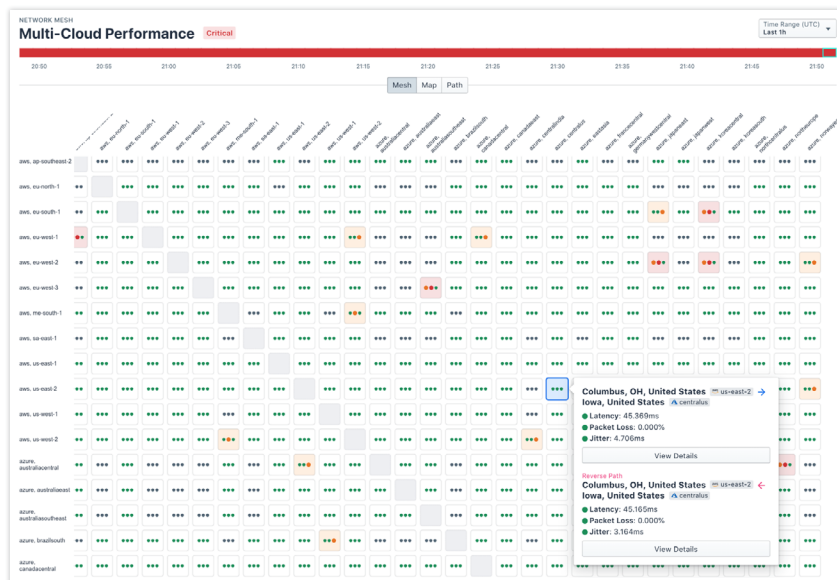
Alerts plus investigation integrated with traffic and full network context

Simple and affordable pricing

Mesh tests

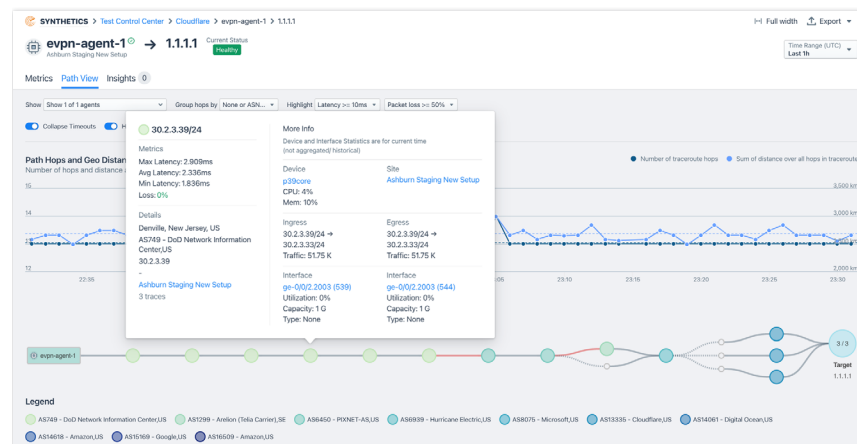
Kentik Synthetics curates test results for quick and easy assessment. Complex, multi-site mesh tests can be set up with just a couple of clicks and the matrix style view helps identify problems at a glance so you can quickly drill down to the root of the issue. Test between any combination of PoPs, data centers, public and private clouds, and/or private network sites.

◀ Monitor thousands of test paths in one view. Share views internally and externally. See problems immediately and drill in.

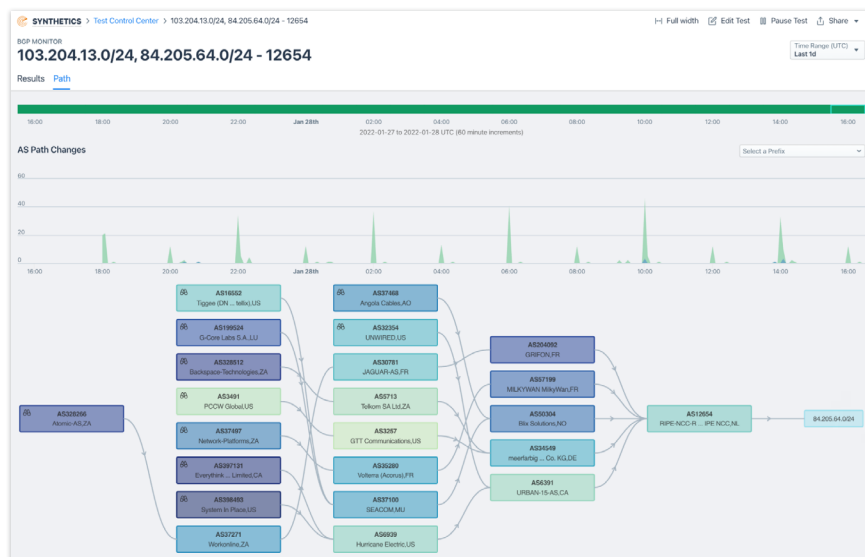


The Path View

The Path View allows you to get to the root of a network issue quickly. It shows the multiple paths taken by your traffic and identifies ASNs traversed along the way, highlighting nodes and links with high latency and loss as well as changes to AS paths over time.



▲ Path View of test results showing the various paths taken from origin to destination



▲ Path Visualization is a part of the BGP Monitor. You can see the AS paths currently and at any point in time.

Pricing

Kentik Synthetics enables network teams to test everything that matters — frequently and autonomously — with simple pricing that offers more testing at a lower cost. The management console automatically calculates the number of credits needed per test and warns you ahead of time if you may be running out of credits. Kentik Pro customers receive 2.5M credits per month. Kentik Premier customers receive 5M credits per month. Additional credits are available through the purchase of a SyntheticPak.

BGP monitoring

Kentik collects and monitors all BGP data relevant to your network. See your BGP announcements and withdrawal events, paths taken, and get alerted to hijacks, reachability issues and path changes. Receive notifications of unexpected origins and invalid RPKI status via your chosen channel (Slack, email, PagerDuty, and more).

ABOUT KENTIK | Kentik is the network observability company. Our platform is a must-have for the network front line, whether digital business, corporate IT or service provider. Network professionals turn to the Kentik Network Observability Cloud to plan, run and fix any network, relying on our infinite granularity, AI-driven insights and ridiculously fast search. Visit us at kentik.com and follow us at [@kentikinc](https://twitter.com/kentikinc).

Revised 20220512