NETSCOUT

Service Assurance for Cloud Services

The increased dependence on hybrid cloud technologies and the risk that these initiatives may slow down or end up failing is an obvious concern. Rapid resolution of problems impacting services running through the cloud is a high priority for any enterprise or government agency. The large, complex, hybrid IT systems, consisting of legacy, private cloud and public cloud infrastructure, present significant challenges for IT teams tasked with discovering the root cause of a slowdown or degradation. Specific challenges include:

- Lack of wire-data service assurance solutions that work in public cloud environments.
- Inefficiencies with backhauling copies of packets from the public cloud to on-premises tools that consume excessive network resources and may be cost prohibitive.
- Business concerns related to moving services to the public cloud due to fear of extended performance degradations, outages and costly mistakes in cloud resource allocation exacerbated by the gap in protection of wire data service assurance analysis.
- Hurdles in gaining visibility to the wire-data in virtualized environments.

NETSCOUT is a visionary and committed partner, who has the experience and resources to dramatically accelerate these migrations and technology initiatives to help maintain business continuity and leadership.

The NETSCOUT Approach

Extending your service assurance methodologies and workflows into your cloud environment is easy and predictable with NETSCOUT®, your trusted and committed partner for Cloud Migration and server farm application assurance. NETSCOUT's approach to service assurance is built on a foundation of Smart Data and Superior Analytics. Based on wire traffic, using NETSCOUT's patented Adaptive Service Intelligence™ (ASI) technology, provides the most robust data source available to monitor and analyze service delivery of applications throughout the modern IT landscape. NETSCOUT's newly introduced Software application vScout, provides for the seamless extension of your nGenius® architecture into your Cloud environment, and at new lower cost of ownership enhancing and ensuring the success of your cloud migration initiatives.

Dramatically accelerate your Migration and Technology initiatives in the Cloud while maintaining your business continuity and corporate leadership

Challenges

As many as 85 percent of corporate enterprises have a multi-cloud strategy and up to 95 percent of enterprises are running applications or experimenting with infrastructure-as-a-services, according to Rightscale's 2017 State of the Cloud Survey and report. Many enterprises are migrating to cloud-based services for more agility, retirement of legacy systems, capital cost savings, and as a way to deliver powerful solutions for their businesses and customers.

Top Cloud outages of last several years have impacted CRM, e-mail, revenue, and DNS services for minutes to hours. Impact $$$$$!
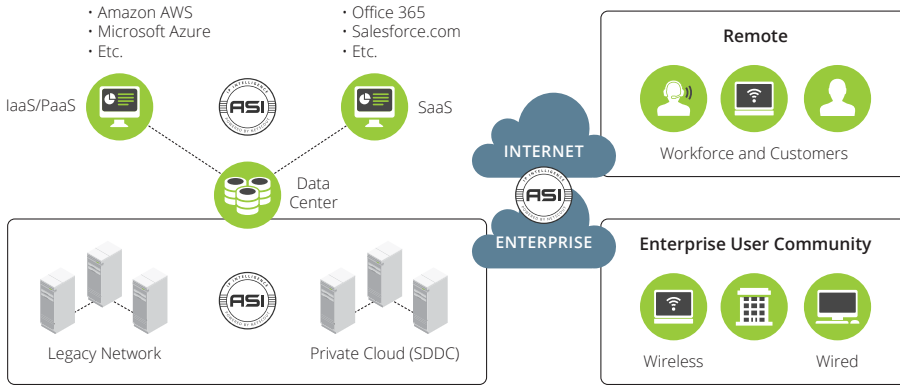
Figure 1: NETSCOUT extends the power of wire data and ASI directly into the heart of an enterprise's mission-critical applications – on- or off-premises; on bare metal, in private or public cloud.

- Meet business objectives and migrate to the cloud with confidence, using smart data and analytics from nGeniusONE, vScout and vStream

- Solve problems rapidly and economically with more complete visibility into East-West as well as North-South traffic by using vScout to monitor packets flowing into and out of the application servers, including those in a micro-services architecture application

- Extend the value of the nGeniusONE Service Assurance solution with vStream, a platform for extending the many ways that wire data can be used

- Reduce MTTR with true visibility into the health of application components, their interdependencies and interactions with the broader IT infrastructure

- Achieve comprehensive coverage of application services and vulnerabilities, on- or off-premises; on bare metal, in private or public cloud, today and into the future

Our Solution

The nGeniusONE® Service Assurance platform provides unrivaled visibility into IP-based business services, along with contextual workflows to speed problem resolution, making the solution both easy for a Level 1 responder to use and powerful for an expert to operate. Rather than looking at individual elements in isolation, nGeniusONE provides an overarching view into the performance characteristics of the components, micro services, and / or containers associated with service delivery of applications. In conjunction with NETSCOUT's proven nGeniusONE platform, vScout

and vStream software makes all of this possible by extending the power of wire data and ASI directly into the heart of an enterprise's mission critical applications, whether they are on-premises or off-premises; on bare metal, in a private cloud or in a public cloud. This view exposes underlying service dependencies that help IT teams to more effectively manage health, availability, and user experience issues.

Only NETSCOUT's nGeniusONE with vScout and vStream empowers enterprises to confidently migrate applications and services to both public and private clouds. Leveraging wire data, vScout and vStream create Smart Data by using ASI to analyze the rich information available from the flows of application traffic. This makes vScout ideal for monitoring hybrid cloud deployments and for managing the migration of applications into the public cloud.

Delivering Value to Enterprises Migrating to and Using the Cloud

IT must support the hybrid environment of public and private cloud with the legacy environment to deliver services. NETSCOUT's Service Assurance solutions help enterprises ensure successful rollouts and ongoing service performance for Public Cloud, Private Cloud and Legacy Infrastructure. NetOps and AppOps alike can collaboratively use ASI-based wire data to provide a complete view of application flows for service triage, proactive monitoring and deployment readiness before, during and after migrating to the cloud. This offers significant benefits enabling enterprises to:

Only NETSCOUT extends the power of wire data and ASI directly into the heart of an enterprise's mission critical applications – on- or off-premises; on bare metal, in private or public cloud.

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