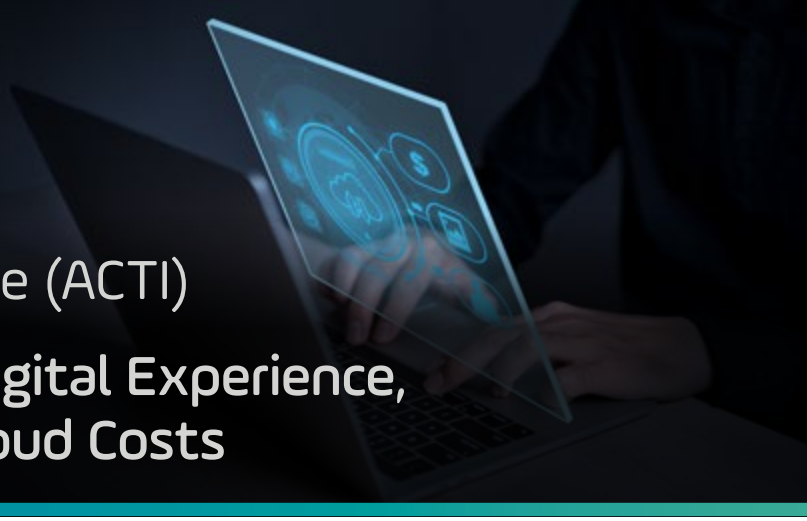
allot
See. Control. Secure.



Allot Cloud Traffic Intelligence (ACTI)

Optimize the Public Cloud Digital Experience, Assure SLAs, and Control Cloud Costs

Cloud transition – the unexpected syndrome

Organizations and enterprises are migrating to the public cloud due to various compelling reasons, including the swift deployment of new services, enhanced scalability and performance, cost efficiencies, and a sharpened focus on core business activities. Many embark on this transition with the belief that it will streamline IT efforts, reduce costs, and enable a greater allocation of resources toward business-centric endeavors.

However, the reality may not always align with these expectations. Are IT managers truly equipped with comprehensive insights into the performance and utilization of mission-critical applications migrated to the cloud? Can they confidently ascertain whether all requests pertaining to these applications are promptly addressed while adhering to SLA commitments?

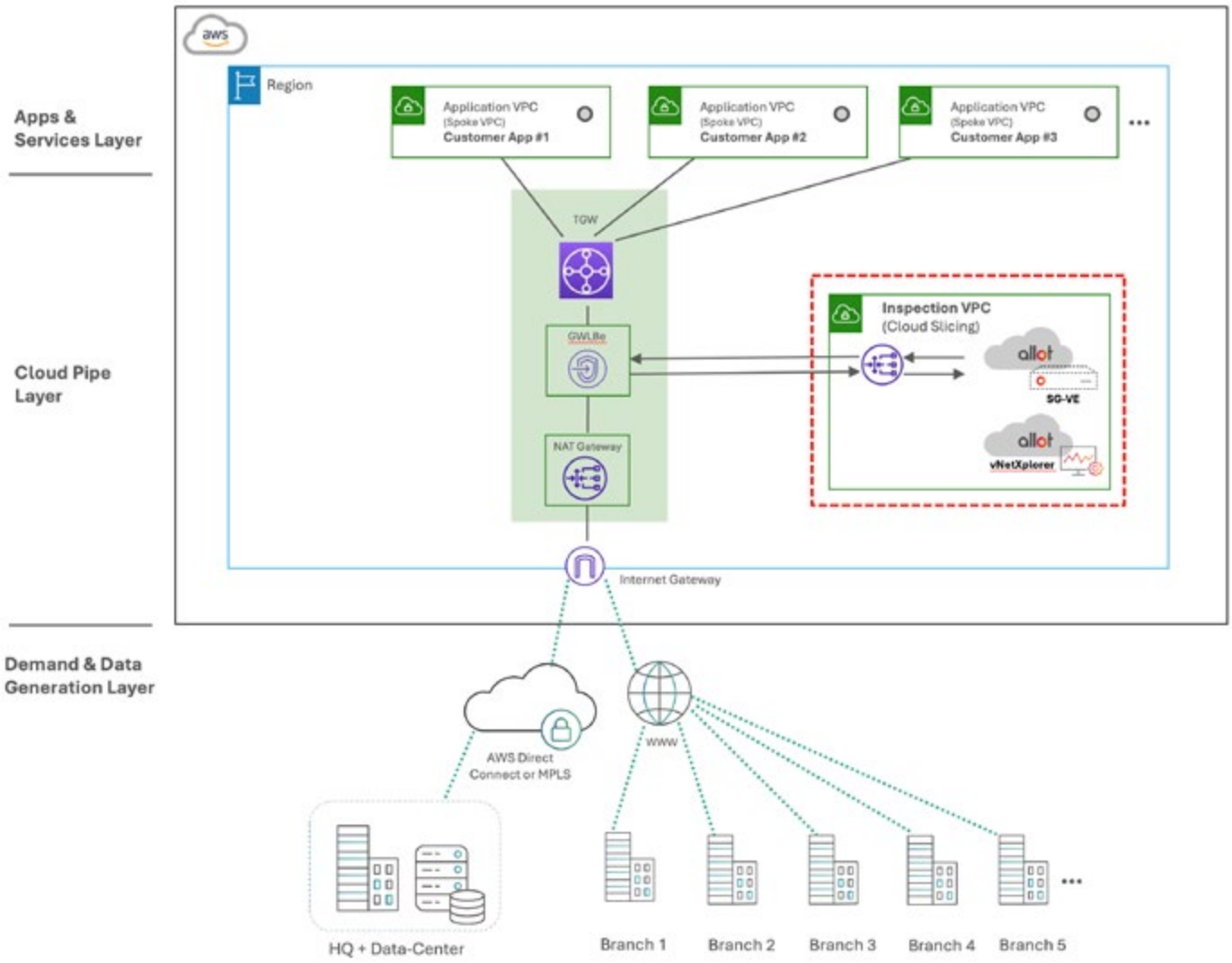
The public cloud inherently offers elasticity, allowing it to seamlessly adjust its capacity in response to ad hoc workloads and evolving business needs. In practice, organizations have stringent budgets, hence, they cap their cloud elastic capacity to avoid over-spending, and they often adopt cloud-spending control strategies, also known as "FinOps" (waste management, right-sizing, spot instances, and more) to optimize their cost management, wherein they leverage the cloud's elasticity to receive on-demand allocations of resources and pay based on actual usage. However, even within this framework, organizations are unable to optimize on their Cloud Networking costs, and they inevitably sacrifice a degree of visibility and control over their digital assets and applications.

Regrettably, the lack of real-time and granular traffic visibility into the public cloud environment presents a significant obstacle to ensuring an optimized end-user experience. Without robust monitoring and management capabilities, IT professionals often find themselves coping with the complexities of maintaining optimal performance and reliability across cloud-based applications and services.

Gain control of your transition to the cloud with Allot Cloud Traffic Intelligence (ACTI)

Allot Cloud Traffic Intelligence (ACTI) provides detailed visibility and implements a technique tagged Public Cloud Slicing – which delivers granular control ("slices") over the public Cloud Pipe that serves the applications and the services that have migrated to the cloud. Public Cloud Slicing transforms the unmanaged Cloud Pipe into a set of "managed Pipes", which allow IT personnel to control the bandwidth and priority delivered to each migrated workload, and application in use. Coupled with a centralized console for real-time visibility of cloud-based applications and their performance, ACTI provides advanced cloud-based control capabilities to ensure end-users' optimized digital experience and SLAs' fulfillment.

Backed with 20+ years of domain expertise, Allot Traffic Intelligence solutions maintain awareness of everything that goes in and out of the enterprise network. Allot Cloud Traffic Intelligence (ACTI) solutions extend these capabilities into the public cloud environment.



ACTI deployment example on AWS cloud within an organization's cloud slicing

Benefits

Digital Experience Management: Brand & Business Responsiveness

- Remove the "Cloud Fog": get a granular view of your "Cloud-pipe" (your internal Cloud Traffic) - analyze each Application's QoE, get real-time alarms on mission-critical services sub-par SLA, and get a granular visibility into how each branch consumes your "Cloud-Pipe".
- Cloud Troubleshooting: Uncover which of your cloud-migrated applications suffers, drill down on who are the impacted users, and start setting your corrective course of action: Cloud Slicing implementation.

Deliver on Cloud Promises: Safeguard Business Continuity, and SLA on a granular level

- Cloud Slicing is a protective measure that assures that applications are allocated with a proper amount of the cloud pipeline. With Allot, implementing cloud slicing is as simple as defining a specific cloud-pipe policy to be enforced per application.
- While cloud slicing is foundational to optimal cloud experience, business uptime and applications SLA assurance – it is also used as an advanced technique to shape the ratio between incoming and outgoing traffic, and to create branch-aware and users-aware policies.

Cloud-Slicing: Optimizing your cloud assets-related costs

- Granular visibility enables you to track how your defined policies are optimizing the Cloud Pipe utilization, and to configure the ACTI Scheduler to control time-based policy triggering on your Cloud Pipe.
- Automatically deploy the Allot "Inspection VPC" to run over cost-efficient AWS Spot instances - instead of running over the regular expensive AWS EC2 Reserved Instances (RI) - in order to increase control over your Public Cloud Networking costs.

Key capabilities

Cloud-slicing implementation & monitoring

- ACTI virtual edition appliance (SG-VE) is deployed in its own Appliance VPC and integrated either with the cloud provider's GWLB Load-Balancer, or with the TGW (Transit Gateway), allowing all internal, ingress, and egress traffic to be inspected, classified, and monitored.

Granular Visibility into cloud workloads, services, and Cloud Pipe traffic

- ACTI provides granular visibility into the cloud workloads, applications, resources used, and their Key Performance Indicators (KPIs) – it is serving the Allot DEM (Digital Experience Mgt).
- Graphical dashboards highlight SLA-based applications and services that do not meet their SLA commitments in terms of performance and expected digital experience.
- Dedicated dashboards show your cloud-slicing computing resource use over time, enabling you to understand if you need to extend your slice or free some of your assigned resources.

Advanced cloud-based traffic control

- In light of the advanced visibility capabilities, IT professionals are looking for a centralized control pane where they can define their Cloud Pipe policies and ensure that SLA-based services and applications get the required priorities accordingly. Allot has developed an HTML-based intuitive UI-based console, also programmable via CLI, that enables IT professionals to monitor the Cloud Pipe status and enforce the required Cloud Slicing priorities.

Dashboards that facilitate decision-making

- Graphical, intuitive UI-controls, provide IT professionals with access to the ACTI Policy Scheduler, where they can set timers to trigger Cloud Pipes policies timeslots and changes. The Policy Scheduler allows for optimization of the Cloud Slicing capabilities (and policies), and triggering "softer" Cloud Pipes policies (e.g. Weighted Fair Queues) – this is typically achieved, only when the IT Professionals have obtained a clear understanding of how their cloud-slicing resources are used, what are the financial implications, and how to optimize cloud resource usage.

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