10 Steps to Balance Cloud Network Cost, Performance, and Security

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In today's dynamic cloud environments, balancing competing demands of cost, performance, and security challenges cloud teams. This guide outlines ten steps to achieve balance—practical strategies for managing resources efficiently, optimizing performance, and securing your cloud network.

From automating threat detection to identifying unnecessary egress traffic, these steps will help you fine-tune your cloud operations while keeping costs in check and ensuring top-notch security and performance.

COST

✓ Identify idle resources

Find idle resources that can be decommissioned or reallocated.

✓ Identify inefficient traffic patterns

Locate unnecessary egress traffic, measure tagged traffic for department chargebacks, and advise teams on reducing utilization.

✓ Monitor inter-region and inter-zone traffic

Identify and monitor traffic going in between cloud regions or availability zones to evaluate whether transit is necessary and cost efficient.

SECURITY

✓ Routinely audit security groups

Compare historical traffic to security groups to ensure compliance and close security holes.

✓ Automatically detect traffic from known threats and botnets

Use automatic public internet intelligence to catch potential security incidents before they become a problem.

✓ Review traffic from suspicious incidents

Audit traffic forensically to detect whether data was exfiltrated or infiltrated during a suspected breach.

PERFORMANCE

✓ Monitor and detect traffic bottlenecks

Identify bottlenecks caused by congestion or capacity overruns.

✓ Monitor and balance cloud traffic

Evaluate efficiency of traffic running over cloud and internet gateways to match connection types with latency requirements and expected data volumes.

✓ Identify network latency hot spots

Pinpoint precise spots where network latency occurs, slowing down the overall performance of critical applications and workloads.

✓ Identify inefficient routing

Identify shorter transit paths with higher latency, asynchronous routing causing packet drops, or out-of-order packets.

Cloud costs quickly spiral out of control without proper visibility into your infrastructure. Kentik helps you optimize cloud expenses with powerful traffic insight.

Get the infographic that explores six critical ways to reduce your cloud costs.