CORESTACK®

Synopsys Harnesses Multi–Cloud Spend with CoreStack FinOps

This tech giant achieved 100% compliance across mapped tags for 100,000+ cloud resources

Synopsys delivers trusted and comprehensive silicon to systems design solutions, from electronic design automation to silicon IP and system verification and validation. They partner closely with customers across a wide range of industries to maximize their R&D capability and productivity. After more than 35 years in business, Synopsys now has nearly 20,000 employees in over 100 offices scattered across the globe.

Cloud technology plays a huge part in the operation of a large organization serving such ambitious needs. And in this case, it's multi-cloud technology, as Synopsys runs a combination of Microsoft Azure, AWS, and Google Cloud to better meet the needs of a wide range of customers running design simulations in the cloud. Wrangling cloud spend in a complex, multi-cloud environment like this one can often be a challenge.

At a Glance

Challenge

- Managing cost allocation, cost visibility, and cost optimization across AWS, Azure, and GCP

CoreStack Solution

- CoreStack FinOps

Results

- Achieved 100% compliance across mapped tags for more than 100,000 cloud resources, enabling new levels of insight into cloud spend across multiple cloud platforms

From Multiple Tools to One

In the past, Synopsys used the tagging capabilities provided natively with each cloud platform to manage cloud spend, but that strategy essentially required 3x the effort of a single solution. The company set out to find an easier way to implement tagging governance across all three of their hyperscalers.

"We have multiple clouds, with multiple projects in each cloud, with each project used by multiple users," says Ranjitha Thota, Enterprise Solution Architect at Synopsys. "We needed cost tags and project name tags and business unit tags for us to understand how much we were spending on each project as well as how much each business unit was spending – so that spend could be cross-charged to the correct cost center."

Synopsys found the solution they were looking for in CoreStack FinOps, a CoreStack NextGen Cloud Governance module that provides comprehensive tagging governance capabilities, among other FinOps features. "With the cloud-native tagging tools requiring so much effort, I actually considered trying to write scripts to do it for multi-cloud," Thota adds. "But when we saw the CoreStack FinOps solution, we knew it was the best approach for our tagging needs."

Over the course of two months, Thota implemented CoreStack tagging across 300+ cloud accounts representing more than 100,000 cloud resources across Azure, AWS, and GCP. And she says working closely with CoreStack was key to the implementation's timeline and success. "Whenever I needed help or had an issue, they were always there."

Better Tagging, Better Governance

Cloud users often use metadata to organize and manage different resources, and tagging can help significantly. In CoreStack, tags are added to existing cloud metadata in key-value pair format with keys and values defined by users. Custom tags can be created at three levels: Account Master, Tenant, and Cloud Account.

For Synopsys, tagging is an approach taken primarily to streamline FinOps activities. But implementing tagging governance gives users the ability to pull or filter cloud resource details based on tags defined for a wide range of purposes, including operational support, security and compliance, access control, and resource discovery. In large and complex multi-cloud environments, a well-crafted resource tagging policy – along with good tag hygiene – is essential to robust cloud governance.

Results You Can See

Now that Synopsys has centralized multi-cloud spend using tagging governance from CoreStack, insights into multi-cloud costs are accessible to more people, cost optimization recommendations can be applied across cloud platforms, and cost allocation takes a fraction of the time.

"Tagging governance is critical for us," says Thota. "It enables our billing teams to see cloud spend, whether by project or by business unit, enabling us to cross-charge properly. And thanks to reports that are available directly from CoreStack, it also provides upper management with visibility into spend data across each project, each business unit, and each cloud, as well as visibility into cloud spend overall."

Learn More

CoreStack FinOps is part of CoreStack Governance, a suite of NextGen Cloud Governance modules that leverage AI to provide continuous and autonomous governance for FinOps, SecOps, and CloudOps across multi-cloud. CoreStack Governance gives enterprises the capabilities and confidence to accelerate their digital ambitions, enabling them to more quickly and easily capitalize on the opportunities that matter.

To learn more about CoreStack NextGen Cloud Governance or to schedule a demo, visit corestack.io or reach out to us at contact@corestack.io. To learn more about Synopsys, visit synopsys.com.

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– Ranjitha Thota, Enterprise Solution Architect, Synopsys

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