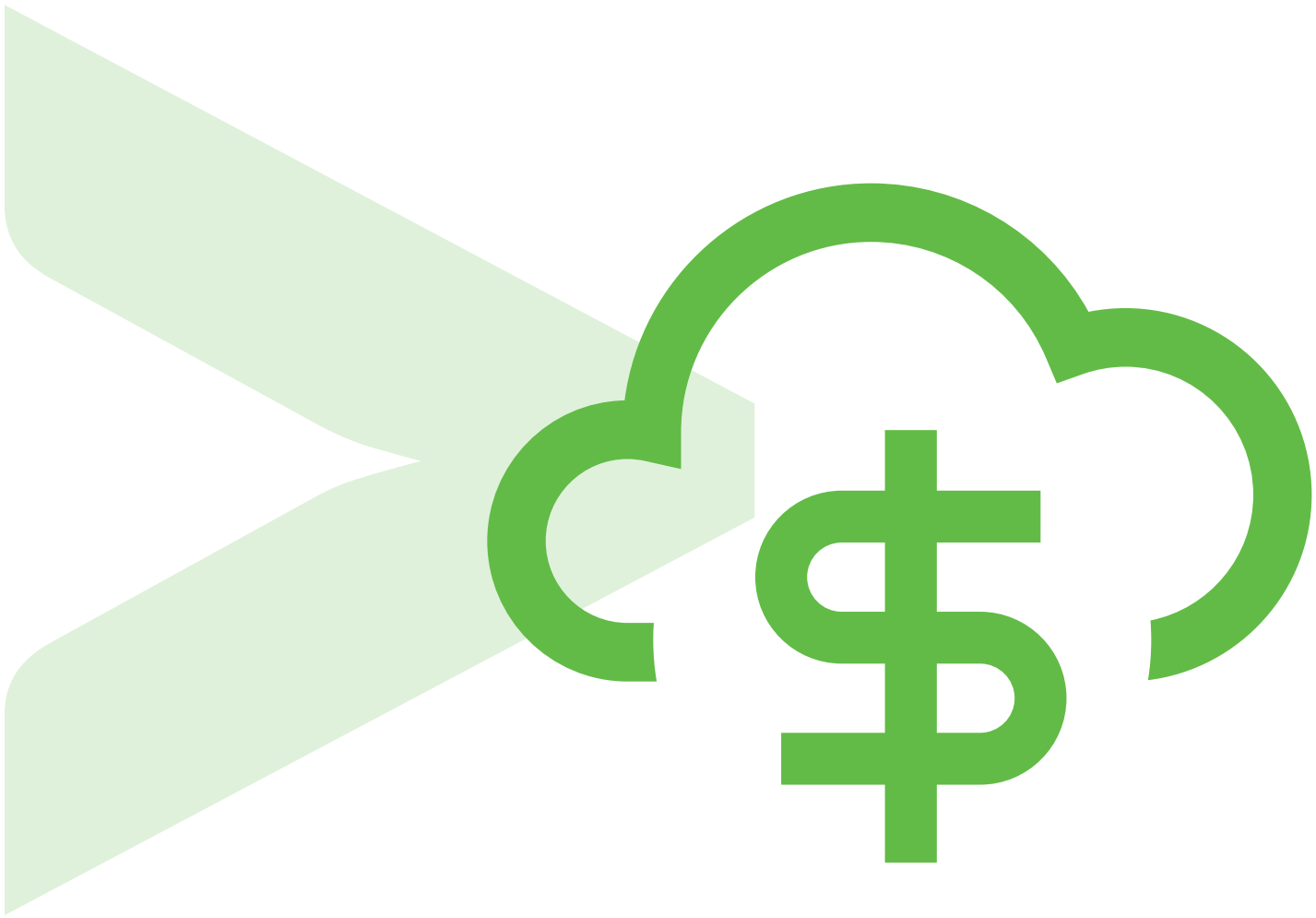




Cloud Cost Optimization: High-ROI Boosters for Scale-Ups

Executive Summary 3

FinOps Fundamentals 4

2.1 Who is FinOps Core? 5

2.2 Phases of the Cloud Cost Optimization Cycle 6

2.3 Cloud Cost Management Tools by Major Vendors 6

Cloud Cost Optimization: The State of the Industry 8

3.1 Cloud Adoption and FinOps Statistics 9

3.2 Cloud Cost Management: Average Savings and Use Cases 11

Cloud Cost Optimization Methods 12

4.1 Feasibility Analysis 13

4.2 Vendor Selection 13

4.3 Subscription Plans and License Reviews 13

4.4 Cloud Services Consumption Monitoring and Management 13

4.5 Right-sizing 14

4.6 Right-costing 14

4.7 Hybrid Benefits Rights 14

4.8 Cloud Storage Management 14

4.9 Cloud-Native Architecture for Future Software Expansion 15

Cloud Cost Management Strategies for Scale-ups 16

5.1 Algorithm for Internal Cloud Cost Management Team Roll-Out 17

5.2 Algorithm for Hiring a Cloud Cost Management Company 18

Endnotes 19

Executive Summary

Cloud Cost Optimization, or FinOps, is the evolutionary offshoot of cloud computing that will help shape the software development industry in the near future.

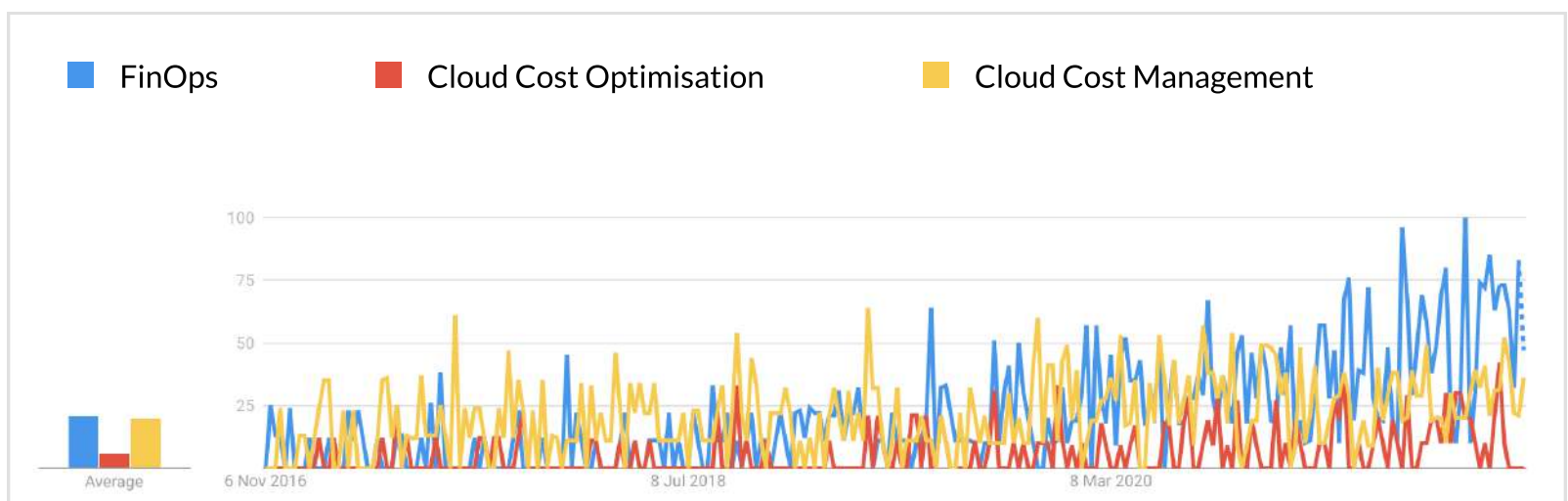
Most corporate IT infrastructures have transitioned from on-premise deployment to cloud, hybrid, and multi-cloud environments. But as companies increase spending on cloud services, right-sizing and right-costing have become increasingly important. It is for that reason that businesses need to incorporate FinOps best practices into its overall strategy.

The [2021 State of FinOps Report](#) sums it up neatly: “The higher the [cloud] spend, the greater the need [for optimization].”. Larger enterprises spend millions of dollars on cloud expenses. With FinOps, these costs can be reduced drastically. Studies have shown that cloud spend on Amazon EC2 instance usage can be reduced by 72%, while the implementation of Amazon EC2 Spot can reduce bills by 90% due to the presence of a sizable bottom line catalyst. Companies that fail to implement FinOps will face significant financial losses and a build up of inefficient architectures.

While [regional cloud ecosystems](#) will define the sector in countries outside of the USA and Europe, cloud users in developed countries benefit from global competition among major cloud storage providers: AWS, Microsoft Azure, and GCP. Third-party cloud cost management software vendors like Apptio, Flexera, VMware, and CloudCheckr offer additional flexibility for users, bridging the gaps in multi-cloud and hybrid environments while reducing vendor lock-in risks.

FinOps engineers need to instill a culture of cloud cost optimization by implementing agile forecasting, introducing regular technical and financial reviews, and chairing monthly governance committees.

This cloud cost management white paper provides an in-depth synopsis of the status quo in CCMO [Cloud Cost Monitoring and Optimization], as well as an overview of the major tools and techniques.



Source: Google Trends report illustrates the early stage of FinOps genesis.



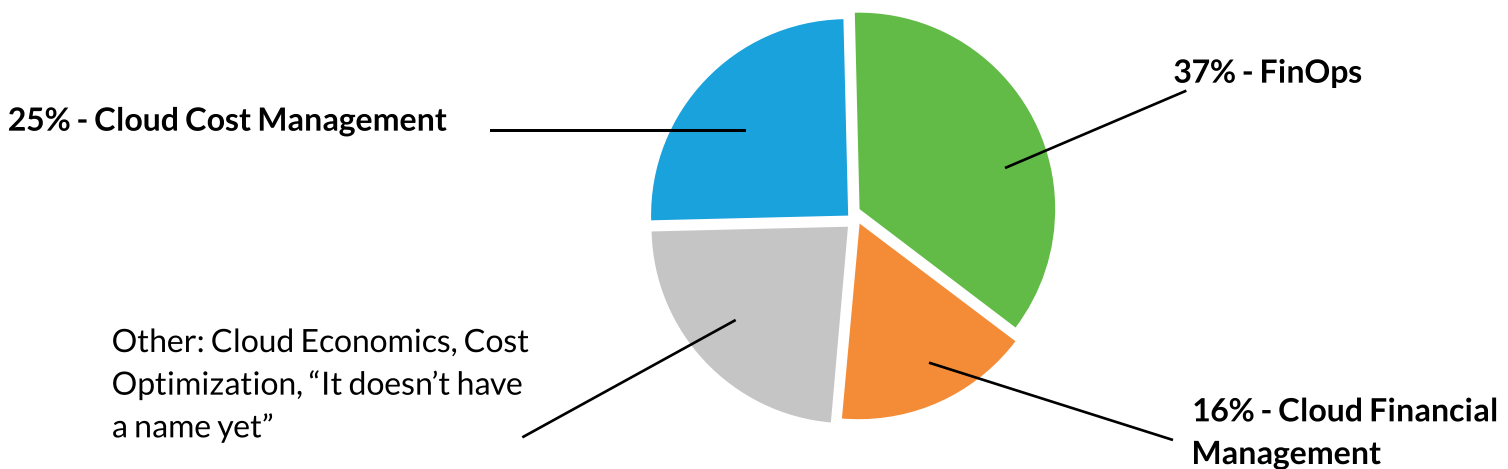
FinOps Fundamentals

Cloud Cost Optimization, or FinOps, is a new, fast-growing field. Before we dive into the details, we will first examine the field of FinOps, the major process stakeholders, the phases of the process, and tools used to streamline and control cloud expenditures.

What is FinOps?

While the concept of FinOps is still relatively new, different terms are used to describe it, most commonly: FinOps, CCMO, Cloud Cost Management, Cloud Economics, Cloud Cost Optimization.

Organizations use different names for the practice:



Source: State of FinOps Report 2021

2.1 Who is FinOps Core?

This whitepaper might be of interest to these participants in the FinOps structure of any company. Such a list of stakeholders ensures the involvement of all concerned departments at all levels: from system architecture design to procurement and rate negotiations.

Technical: Engineers, Ops, Lead Software Engineer, Cloud Architect

Executives: Head of Infrastructure, CTO, CIO

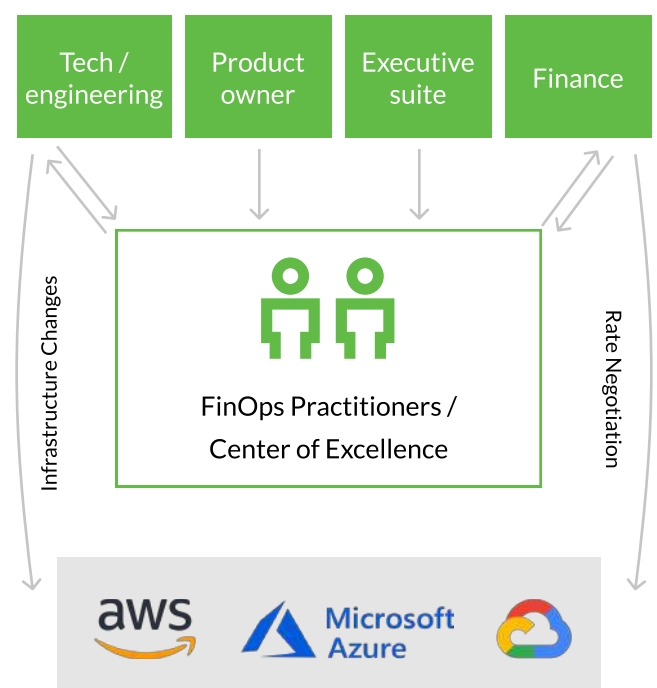
Business: Product Owner

Legal: Chief Legal Executive

Financial Reps: CFO, Financial Planning

Procurement: Global Technology Procurement

FinOps Practitioners: FinOps Analyst, Director of Cloud Optimization



2.2 Phases of Cloud Cost Optimization Cycle

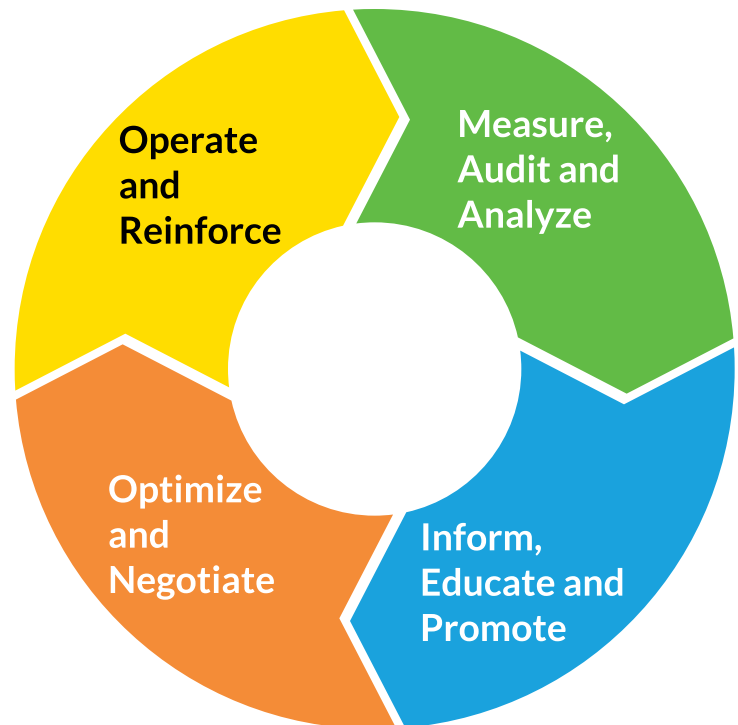
FinOps is an operational model for a company's entire cloud-based infrastructure. As a result, cloud cost optimization requires continuous monitoring, regular reviews, and the simultaneous involvement of many stakeholders.

There are four main stages of the FinOps cycle that all companies involved in cloud cost awareness undergo on a regular basis.

They are:

- Measure, Audit and Analyze
- Inform, Educate and Promote
- Optimize and Negotiate
- Operate and Reinforce

All of these stages involve revisiting a company's tools, subscriptions, consumption, and structure on a recurring schedule.



2.3 Cloud Cost Management Tools by Major Vendors:

FinOps tools are designed by cloud service providers, as well as third-party companies. These software solutions let users monitor actual consumption of cloud storage, schedule instances, choose subscription plans, and monitor bills for anomalies.

The landscape for FinOps tools is highly competitive, leading major vendors to develop tools that are suitable for multi-cloud usage. Third-party tools are also compatible across all platforms. The major Cloud Cost Optimization tools are:



AWS Cloud Optimization Tools

- AWS Cost Explorer
- AWS Pricing Calculator
- AWS Cost Anomaly Detection
- AWS Cost and Usage Report
- AWS Service Catalog
- EC2 Auto Scaling
- AWS Compute Optimizer
- AWS Operations Conductor
- AWS Savings Plan
- AWS Instance Scheduler



Azure Cloud Cost Management and Billing

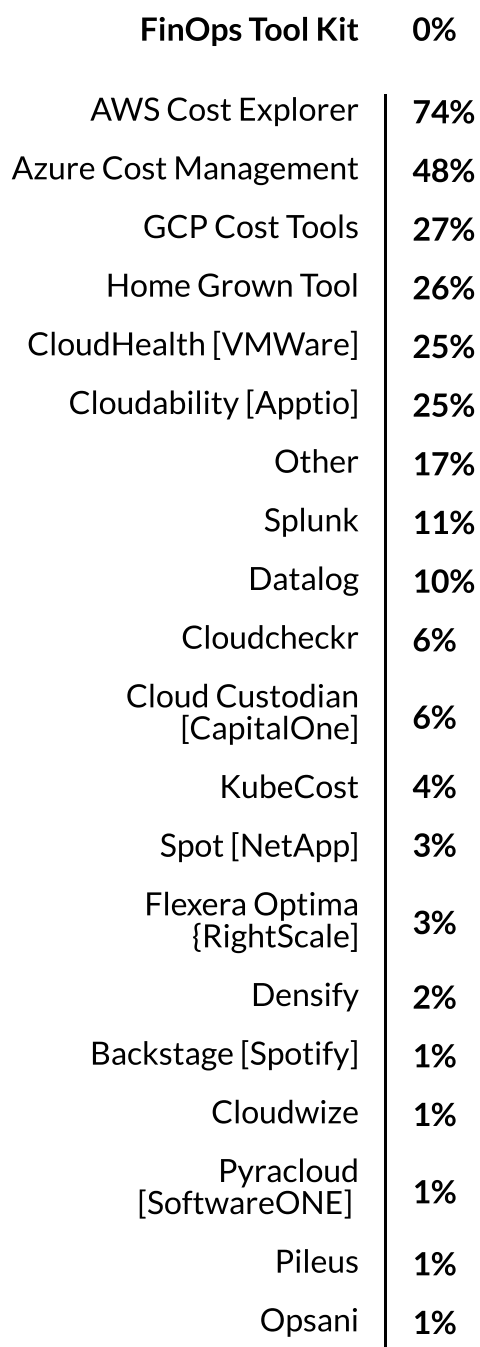
- Azure Pricing Calculator
- Total Cost of Ownership (Tco) Calculator
- Azure VMware Solution
- Azure Hybrid Benefit
- Visual Studio



Google Cloud Cost Management

- IT Cost Assessment Program
- Google Cloud Console
- Google Data Studio
- Billing APIs

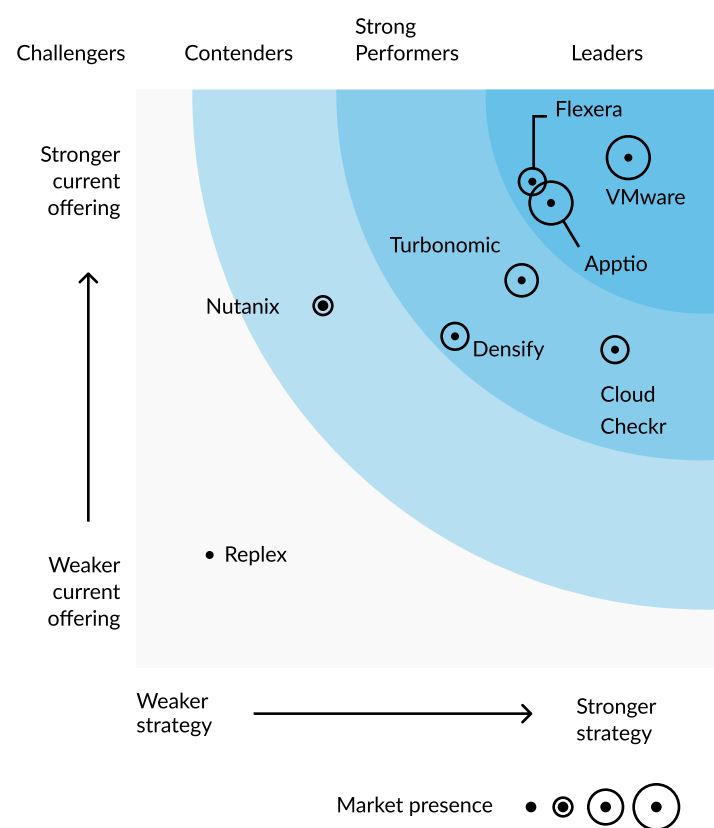
FinOps Platforms and Tools Used



Source: State of FinOps Report 2021

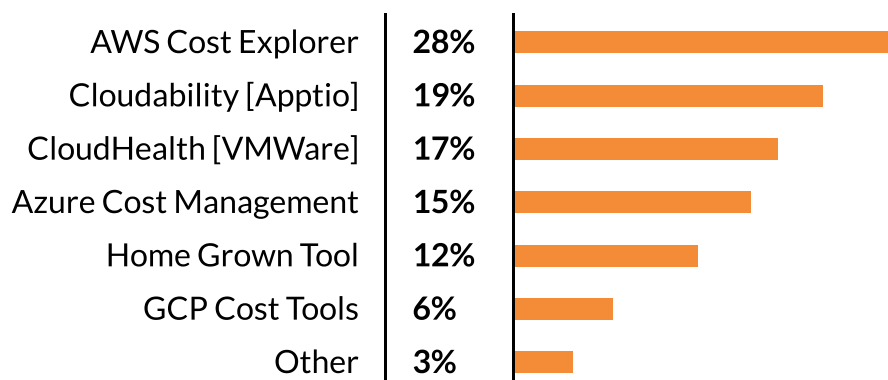
Third-Party Cloud Optimization Tools

- Cloudability by Aptio
- Snow Commander by Snow Software
- Flexera One by Flexera
- CloudHealth by VMware



Source: Forrester Wave TM

Primary Tools of the Trade



Source: State of FinOps Report 2021



Cloud Cost Optimization: The State of the Industry

3.1 Cloud Adoption and FinOps Statistics

With over 92% of IT organizations using some form of cloud computing environment, on-premise deployment is on the brink of extinction. The growth of cloud services has also led to growing cloud-related costs for companies. A survey from IDG found that [40%](#) of the respondents said their biggest cloud challenge was controlling cost. .

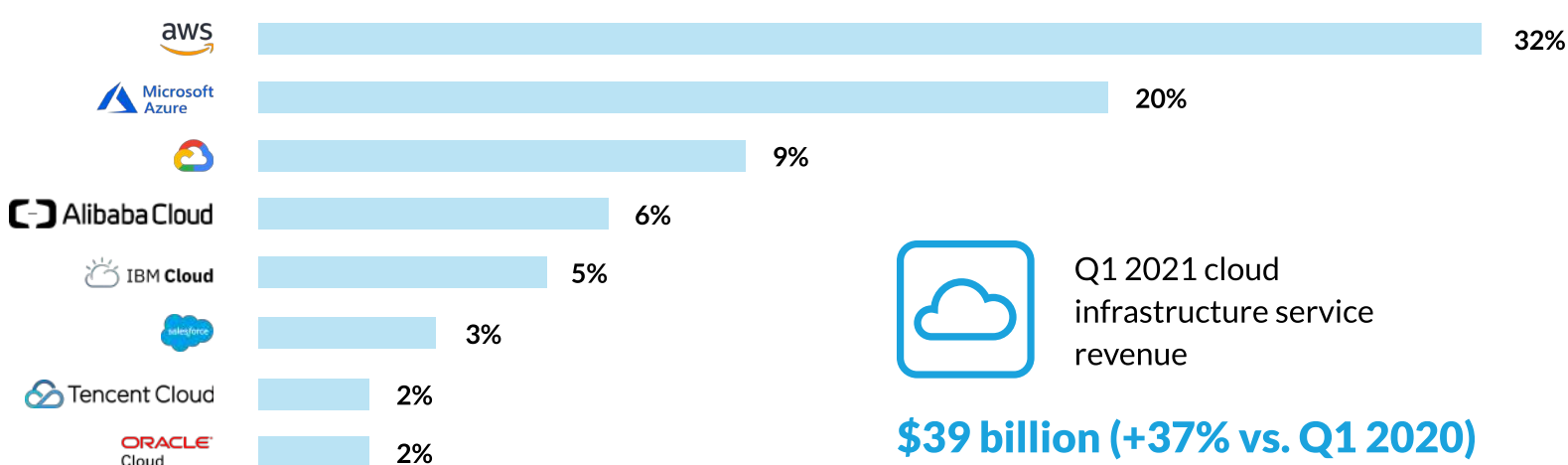
As a result, Cloud Cost Optimization is becoming increasingly important for IT companies.

These graphs offer a quick snapshot of the state of FinOps in 2021.

1 Global Cloud Market share by provider, Q1 2021 [Synergy Research Group]

Amazon Leads \$150-Billion Cloud Market

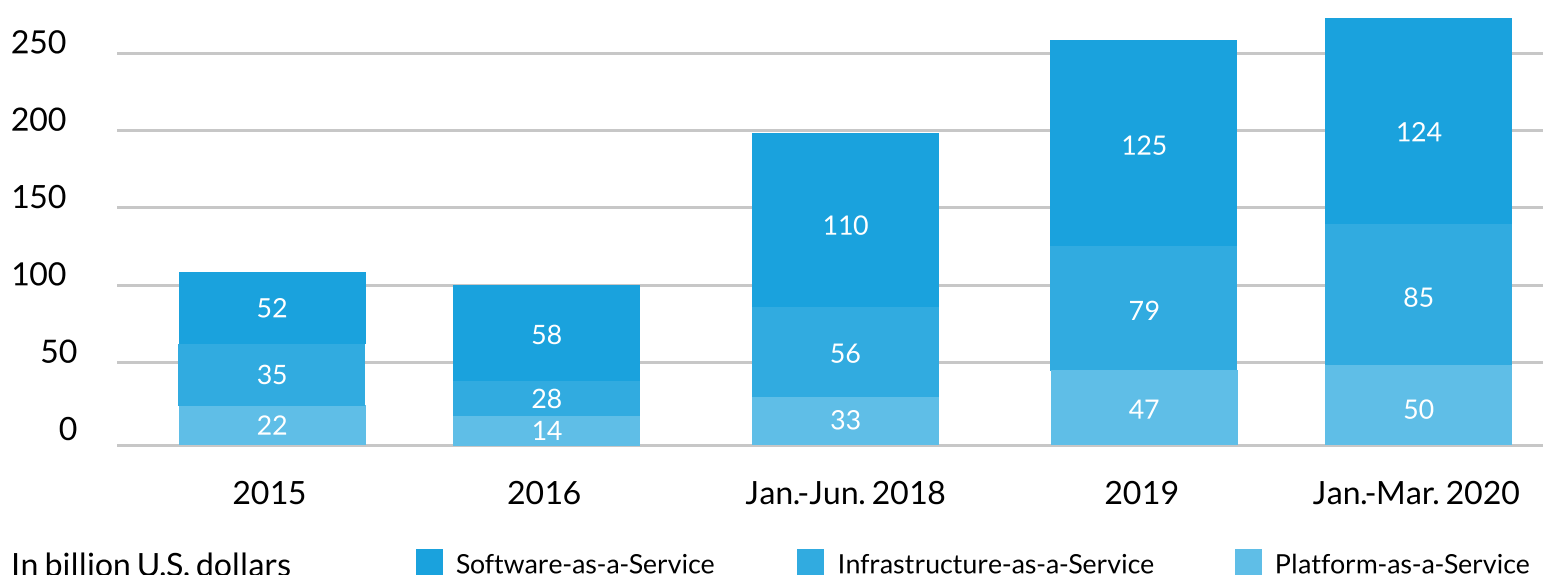
Worldwide market share of leading cloud infrastructure service providers in Q1 2021*



*Includes platform as a service (Paas) and infrastructure as a service (IaaS) as well as hosted private cloud services

Sources: statista.com

2 Global cloud services market spending by segment, 2015-2020 [IT Candor]

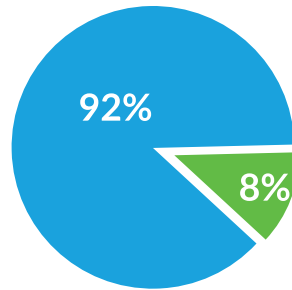


Sources: <https://financesonline.com/>

3 Cloud computing technology adoption [IDG]

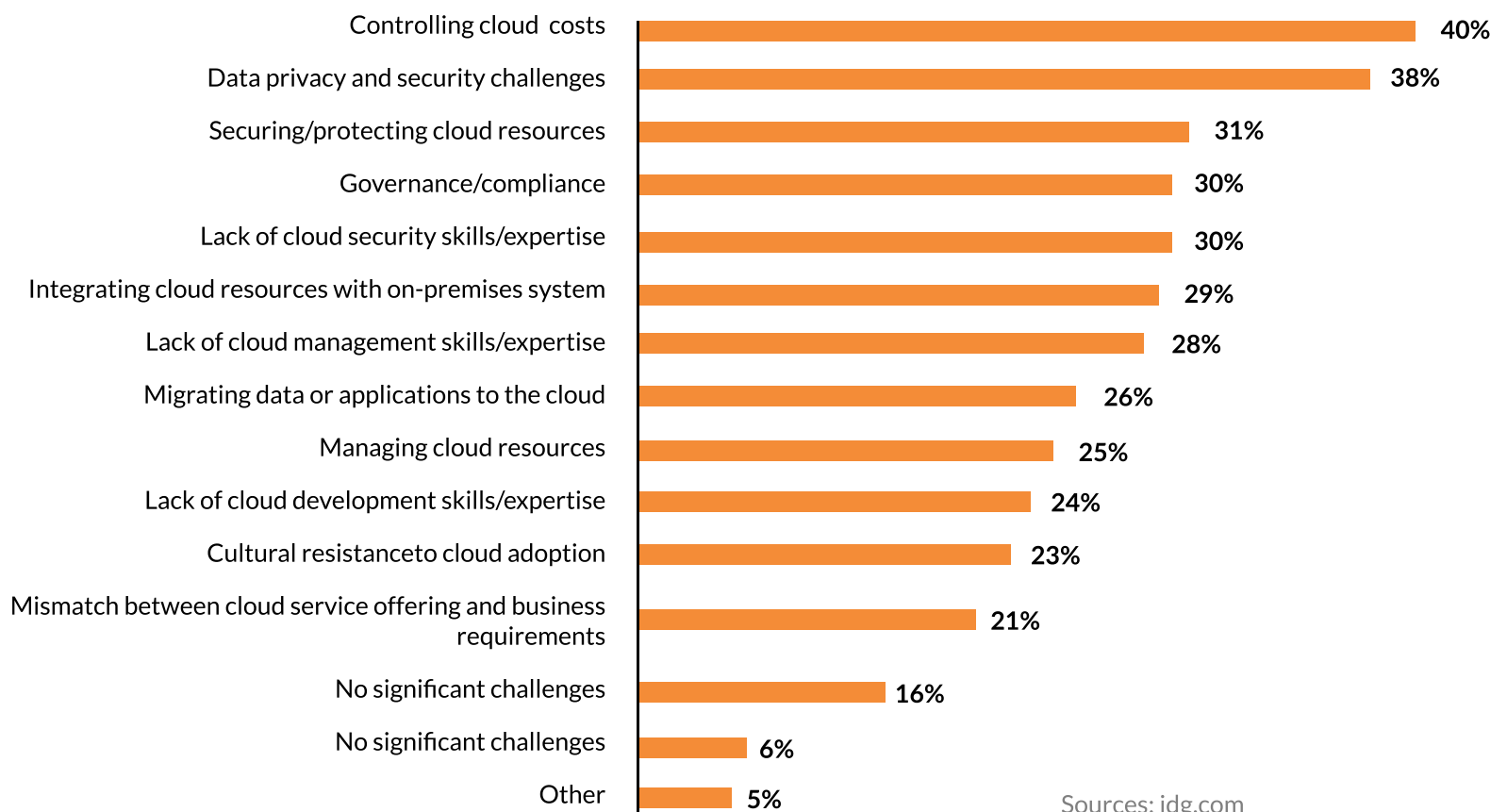
92% of IT organization have some cloud computing and storage environments

8% use on premise deployment



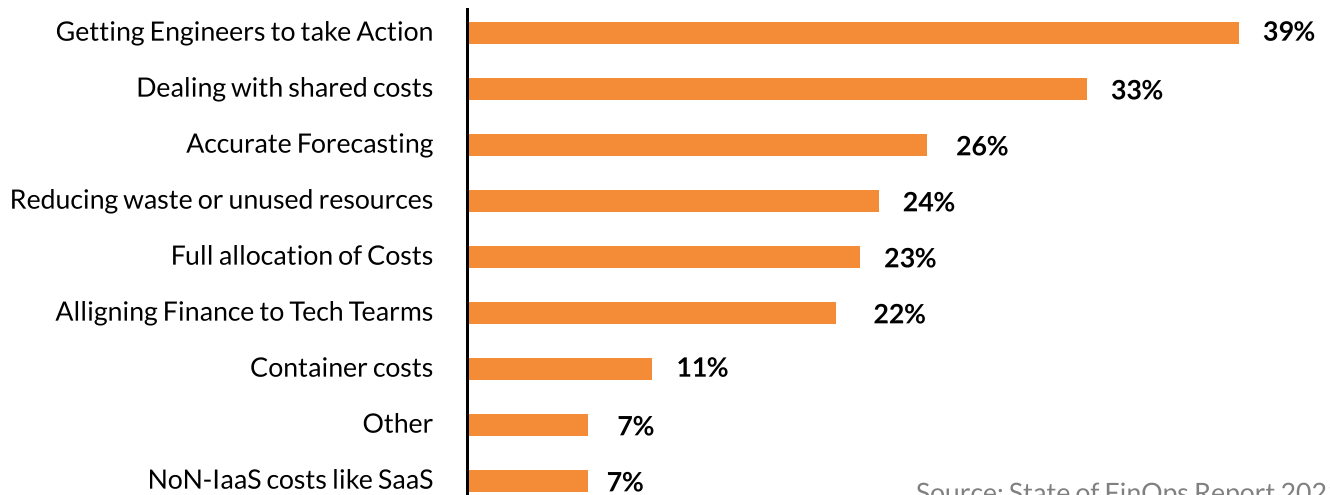
Sources: idg.com

4 Cost and Security: Top Public Cloud Challenges [IDG]



Sources: idg.com

5 What challenges do FinOps teams face? [FinOps Foundation]



Source: State of FinOps Report 2021

3.2 Cloud Cost Management: Average Savings and Use Cases

The AWS Instance Scheduler tool usage can help companies cut cloud costs by as much as [70%](#). The tool works by optimizing scheduling so that you pay for capacity only when it's being used, not during idle periods.

[Looker](#), a Google Cloud Platform suite BI tool, helps companies increase sales revenue by an average of 26% and reduce churn rate by 7%, according to a report from Forrester.

With dozens of methods and best practices on how to save on cloud spend, the use cases below illustrate the scale of the potential savings.

WildLife Studios saved millions of dollars annually after reducing AWS spend by 45%

WildLife Studios, a Brazilian mobile gaming company, saw its [cloud costs skyrocket](#) due to a growing number of mobile games under development, increasing Monthly Active Users [MAU], and a spike in global target geographies.

The AWS Cost & Usage Report helped WildLife Studios understand how it was using individual AWS services, how much those services cost, and which business units were spending the most.

The AWS Cost Explorer tool was coupled with a custom analytical software solution designed by the company, which helped WildLife Studio better understand its Amazon EC2 Reserved Instances usage.

Ultimately, the company reduced AWS spending by 45%, which translated to several million dollars annually.

Arup saved \$4.4 million over 3 years thanks to cost avoidance practices using Snow

[Arup](#), a multinational architecture and engineering firm with over 16,000 employees and a complex ecosystem of cloud services used across multiple departments and branches. The company used Snow Commander software to manage its licencing and measure cloud computing consumption.

The business managed to save \$4.4 million in the first three years of using Snow Commander. Further savings accrued as FinOps became a bigger part of the company ethos.

Sky Group saved \$3.8 million in just one year

Sky Group, a large European media company, had been using cloud computing services for several years when it started to consider [cloud finance management](#) due to mounting bills.

The newly formed FinOps team used Google Cloud's Billing Tool to analyze, monitor, and review cloud spending. Almost instantly, the team found optimization opportunities in BigQuery, Compute Engine and Cloud Storage that were worth \$1.5 million.

Further investigation and FinOps activities lead to \$3.8 million in cost reductions across different cloud service vendors.

XALT Energy saved 26% on its Microsoft EA Renewal license

XALT Energy, a global leader in energy storage tech, used Crayon optimization services to compile an assessment of its needs. From there, XALT reviewed several subscription scenarios, aligning its business needs with the subscription options.

The company ultimately signed a three year licensing agreement with Microsoft at a rate that was [26%](#) lower than its previous provider.

Global semiconductor manufacturer saved 22% in licensing fees with Snow Optimizer

A global semiconductor manufacturer [inherited](#) a 20 year old SAP system from a multi-stage string of acquisitions. The system came with exorbitant licensing costs.

Using Snow, the company audited its users permissions and utilization, as well as performed a deep-dive into licensing fees and their consumption. As a result, the company was able to right-size and right-cost its package of SAP products, saving several million Euros in license cost avoidance and another €600,000 in maintenance fees.



Cloud Cost Optimization Methods

The IT domain has yet to overcome the stigma associated with cost cutting, which can make cloud cost optimization difficult to implement.

FinOps practitioners often need to fight an uphill battle, encouraging everyone from DevOps to Legal to understand and incorporate the principles of cloud cost management at every stage of the process.

These methods can be used on an ongoing basis during quarterly FinOps committee meetings, annual self-audit or reviews, or as part of an initial FinOps strategy design process.

FinOps cloud cost monitoring and optimization techniques revolve around three major pillars:

- 1. Only pay for what you actually use at any second based on actual consumption reports**
- 2. Negotiate the best price for the right product with the right vendor**
- 3. Build new architectures and maintain them with cloud cost awareness and mindset**

While right-sizing and right-costing are two major methods used to manage cloud costs, the techniques below are part of a larger arsenal of cloud finance management tools.

4.1 Feasibility Analysis

The first phase of any FinOps consultancy service is a needs assessment. This is an in-depth audit that helps companies understand the status quo in terms of cloud vendors currently used, subscription plans, actual utilization levels, and their alignment with their stated business objectives.

The FinOps Foundation investigated that companies with larger cloud computing capacities also have a greater potential for cloud spend savings. Moreover, as cloud computing and storage needs grow, it becomes more feasible to launch a FinOps team or hire independent Cloud Cost Management experts.

A quick feasibility study can take up to a week, while a detailed analysis may require a month or more of research.

4.2 Vendor Selection

AWS, Google GCP, Microsoft Azure, Oracle, and Alibaba are just a few of the cloud vendors with extensive assortment of services and tools. Apart from them, newcomers like Cloudability, Snow Commander, and Flexera have emerged on the market.

When choosing the cloud vendor, it's important to consider factors like current verifiable consumption, scaling ambitions, cloud services mix, business units, location, and usage frequency.

Also, the same service from the same provider can vary in cost significantly depending on where the servers are based. If latency is of no significance [e.g. the cloud is used for deep archiving purposes], a company can choose the cheapest option, regardless of the location.

However, production-related processes should be allocated to nearby centers to ensure fast response times.

4.3 Subscription Plans and License Reviews

Asset management solutions offer a complete overview of all software products, their licensing plans, users, and utilization.

An audit of current subscription plans and licenses can identify invalid, idle, or outdated users, consolidate prices and align the actual software consumption with up-to-the-minute business needs.

4.4 Cloud Services Consumption Monitoring and Management

Both right-sizing and right-costing require a company to understand its actual cloud computing consumption before it can resize its cloud service or renegotiate its contract with a cloud services provider.

All major cloud suppliers, as well as some third-party solutions, offer an extensive suite of proprietary insight tools — these include Amazon CloudWatch, Microsoft Cloud Monitoring, Google Cloud Monitoring, AppDynamics, SolarWinds etc.

These dashboards offer visibility into logging possibilities, alerts and metrics that can help reduce MTR [Mean Time to Recover], identify and prevent issues, and optimize resources.

4.5 Right-sizing

Right-sizing is a Cloud Cost Optimization technique that matches cloud computing power to actual consumed capacity, as opposed to assumed capacity.

Overprovisioning is the opposite of right-sizing. It occurs when companies buy plans with too much capacity and end up overpaying for an idle workload.

Right-sizing is one of the major FinOps methods. It helps companies resize cloud plans to better match workload requirements, using the following steps:

1. Identification of the actually consumed memory, CPU [Central Processing Unit], disk, and network performance based on real-life data over a sustained period of time.
2. Research, evaluation and selection of available compute instance families and types with provider of choice across multiple parameters.
3. Aligning workload with the most optimal compute instance.

Some examples of AWS right-sizing techniques include:

- For the users of the market-leader Amazon cloud services, choosing Reserved Instances instead of on-demand capacity is one of the methods of right-sizing. AWS Cost Explorer offers data on real consumption across services to estimate the correct required capacity.
- Elasticity as a characteristic of a cloud environment is another leverage used to match demand and capacity. AWS Instance Scheduler helps cut actual consumption on weekends, out-of-office hours, and public holidays to avoid overprovisioning.
- Using an auto-scaling feature for scaling DB usage. This is based on CloudWatch reports on consumed read and write capacity units and helps reduce costs for DataBase products.
- Removing Idle Load Balancers is another common right-sizing method. Users identify the load balancers with Request Counts of <100 in a week and delete them

4.6 Right-costing

Right-costing is the second-most impactful FinOps method. It involves a company taking proactive measures to streamline licensing and subscription plan costs through vendor negotiations, as well as thorough pricing plan research and license mergers.

This method has a myriad of subtechniques, ranging from simply requesting a discount to selecting a plan based on location, idle user deletion, volume-based discounts, and reserved instances services.

Right-costing is best done after right-sizing, when the plan itself is based on actual consumption, not assumed consumption.

4.7 Hybrid Benefits Rights

Hybrid benefits rights is a cloud spend optimization technique within right-costing. This approach suggests that companies may use their on-premise license for cloud purposes. Some [hybrid benefit rights plans](#) will also have dual-use rights that enable a smooth transfer from on-prem to the cloud deployment.

4.8 Cloud Storage Management

Cloud services are designed to cater to a specific task requirement and are priced accordingly. Putting a correct estimate on your storage needs parameters will lead to significant monthly savings, as deep-archiving and production-intensive storage are priced differently.

It's often best to select the optimal cloud service based on access frequency [production-hot vs. archive-cold], data API cost and transfer price. For example, S3 standard is used for backup and recovery, while S3 Glacier Archive is designed for deep, long-term archiving.

4.9 Cloud-Native Architecture for Future Software Expansion

One of the main purposes of introducing Cloud Cost Optimization as an operating framework into an enterprise is to instill a FinOps-minded culture. It's only natural that all future applications and software solutions would be built in a cloud-native framework.

When elasticity and multi-tenancy characteristics are embedded in new cloud-native architecture, the possibilities for cost savings on cloud spend increase notably.



Cloud Cost Management Strategies for Scale-ups

Any company with cloud infrastructure should be aware of Cloud Cost Management and the need for a FinOps audit. The more cloud services, subscriptions, and subsidiaries a company has, the more urgent the need.

For enterprises, it's essential to create an internal FinOps department. For scale-ups, the need for a dedicated FinOps team grows as cloud consumption increases. Smaller firms might be able to manage with a once-a-year audit and implementation plan.

For those looking to establish an internal CCMO department or opting to outsource FinOps to a qualified managed IT service provider, here are some steps to follow.

5.1 Algorithm for Internal Cloud Cost Management Team Roll-Out

Due to the novelty of the realm, there are not many Cloud Cost Management best practices. However, these milestone actions can help set up a successful FinOps team:

1. Define a person or group of colleagues with enough knowledge of the cloud services infrastructure and company finance to chair the project.
2. Hold a meeting that includes representatives of the DevOps, Finances, purchasing, business owners, and legal department to openly discuss trends, status quo of cloud spend, and future plans.
3. Assign an internal audit of the cloud expenses, licenses, subscription plans, and consumption to the newly-formed DevOps practitioners. Provide tools necessary to perform the audit — be it a trial period for a third-party tool or vendor cost calculators or explorers.
4. Upon audit completion, review right-sizing saving opportunities first, followed by right-costing techniques. These may include contract renegotiations, license regrouping, and subscription plan streamlining.
5. Estimate if the savings arising from the optimization efforts are worth establishing a permanent FinOps department or if one-time outsourcing is the best path forward for the enterprise with your cloud needs.
6. Establish an internal FinOps team with regular meetings and a c-suite-level FinOps committee. Ensure ongoing education for all interested team members, which may include free courses offered by the FinOps Foundation. Alternatively, look for a vendor that provides Cloud Cost Optimization services or a FinOps extension team.
7. Develop a roadmap that prioritizes quick-to-implement optimization steps and allows enough time and resources for a smooth employment of less actionable, yet high-ROI, measures.
8. Start actioning a plan with regular reviews and adjustments as business requirements change.
9. Roll out a company-wide CCMO awareness plan with incentives for interdepartmental collaboration and cost-saving initiatives.
10. Set up a FinOps center of excellence that will be responsible for advancing the culture of mindful cloud cost management in your company.

5.2 Algorithm for Hiring a Cloud Cost Management Company

The complexity of cloud services and their pricing, as well as the potential savings that arise from implementing stringent FinOps operational models, may prompt larger businesses to commission a Cloud Cost Management from an expert vendor. The following steps will help companies select a high-quality supplier for this critical mission:

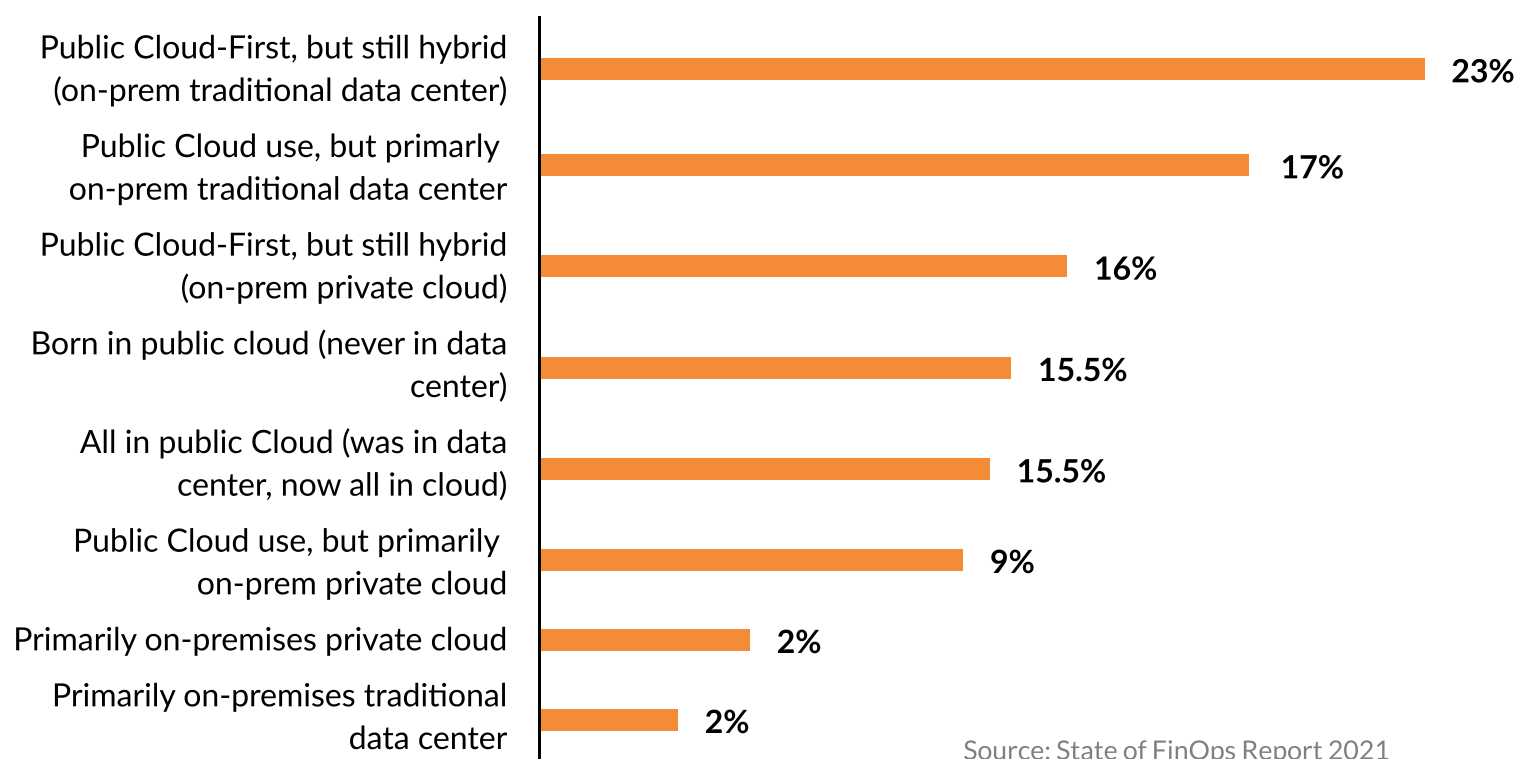
1. Appoint the person in charge of the FinOps project internally based on the skills, experience, and willingness to evolve in the field.
2. Use vendor-developed tools to conduct a basic internal audit of cloud costs. This will help you speak knowledgeably about your requirements with potential suppliers.
3. Compile a shortlist of 5-7 vendors from different locations for a diverse budget offering.
4. Send out an RFP to the pre-selected pool of vendors with basic information about your tech stack so they can reply with commercial estimates as well as potential savings they discern from the initial information.
5. Provide equal access to actual consumption reports and dashboards to shortlisted candidates for preparatory work.
6. Inquire about use cases and relevant portfolio experience to align the final decision based on proven expertise as well as commercial estimate and RFP responses.
7. Conduct a final video interview with the top two companies to select a vendor by a group of internal FinOps enthusiasts and concerned C-level executives.



Endnotes

Only 4% of FinOps Report respondents said they used primarily on-prem deployment, while 31% reported being fully cloud deployed [either cloud-born or fully transitioned to it]. The majority [65%] used some form of a hybrid environment.

- 39% public cloud-first
- 26% public cloud use with primarily on-prem deployment
- 15.5% all in cloud
- 15.5% born in cloud
- 4% primarily on-prem deployment



Source: State of FinOps Report 2021

Spurred by unsparing competition on both global and regional levels, cloud service vendors continuously develop new instruments enabling users to better control, optimize, plan and build their software ecosystems. Vendor lock-in risks are no longer a major concern, while hybrid and multi-cloud environments are ubiquitous.

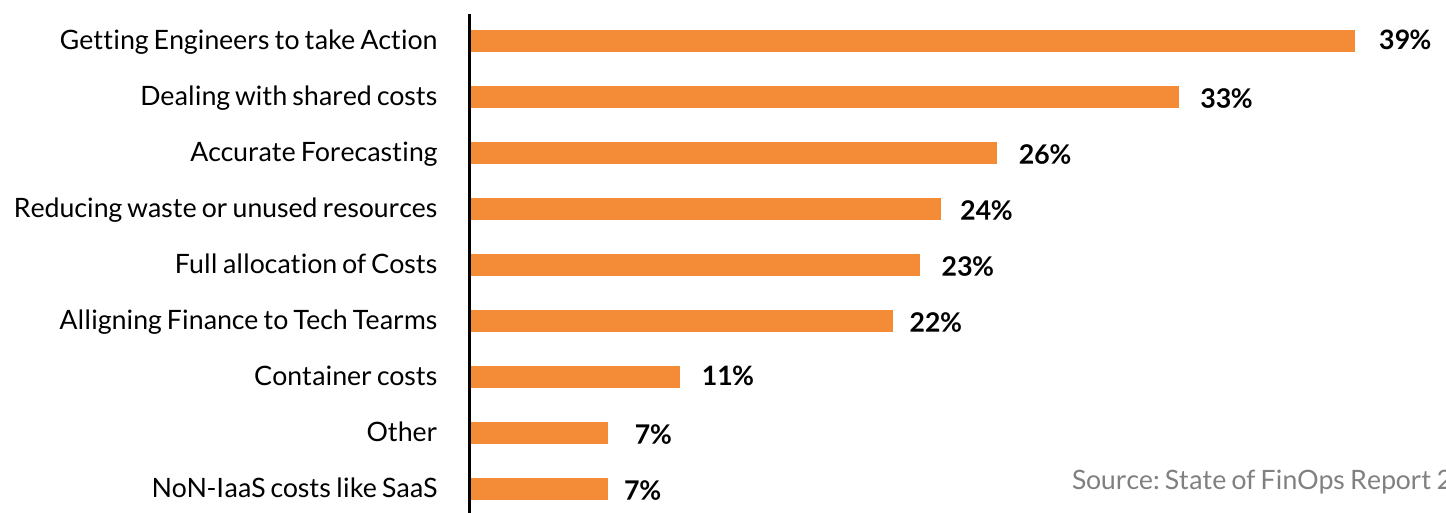
Furthermore, third-party vendors provide additional support to the Cloud Cost Optimization domain by developing new cross-vendor products that enable coverage of the multi-cloud, multi-platform and hybrid environments.

This expansive array of tools available for Cloud Cost Monitoring and Management is further supplemented by the foundational work of FinOps Foundation, which offers framework educational and networking resources for the industry.

This highly competitive terrain serves as the powerful vehicle and catalyst, helping companies around the world drive cloud costs down through various cost saving, cost avoidance, and cost reduction techniques.

However, companies need to proactively recognize and embrace opportunities preemptively provided by suppliers. It's up to users to start saving on cloud costs and avoid bills from piling up.

Overprovisioning, deficient communication between teams, poor monitoring, low observability, discordant purchasing of multiple teams, substandard Cloud Finance Management awareness, and a dire lack of FinOps expertise are only a few of the challenges faced by pioneers in Cloud Cost Optimization.



Source: State of FinOps Report 2021

FinOps teams usually evolve on the cross-roads of DevOps, finance, purchasing or cloud analytics. Once the understanding of the significant weight of the issue is realized, company leadership can appoint an appropriate candidate to drive a FinOps transformation.

Just like DevOps has evolved to become a norm in the matter of a decade, FinOps will likely rapidly speed toward mass adoption.

Early adopters that embrace a cloud cost conscious culture will gain a competitive advantage that will define and shape tomorrow's leaders.

Sources used:

1. FinOps Foundation State of FinOps report 2021: <https://data.finops.org/>
2. Cloud Zero: <https://www.cloudzero.com/webinar/cloud-cost-metrics>
3. FinOps Training: Strategies for a Successful Cloud Cost Management Practice <https://www.youtube.com/watch?v=o5Ak13zCG9s>
4. Amazon EC2 Instance Types: <https://aws.amazon.com/ec2/instance-types/>
5. Amazon Cost Management Tools: <https://aws.amazon.com/aws-cost-management/>
6. Google Cost Management: <https://cloud.google.com/cost-management>
7. Microsoft Azure: <https://docs.microsoft.com/en-us/azure/cost-management-billing/cost-management-billing-overview>
8. Densify: <https://www.densify.com/solutions/roles/finance>
9. TechRadar: <https://www.techradar.com/best/best-cloud-storage-management-service>
10. Snow Commander: <https://www.snowsoftware.com/products/snow-spend-optimizer>
11. Crayon: <https://www.crayon.com/cost-optimization>
12. Apptio: <https://www.apptio.com/solutions/cloud-cost-optimization/>
13. Google: <https://cloud.google.com/blog/topics/cost-management/principles-of-cloud-cost-optimization>
14. Gartner: <https://www.gartner.com/en/newsroom/press-releases/2021-06-28-gartner-says-worldwide-iaas-public-cloud-services-market-grew-40-7-percent-in-2020>
15. Deloitte: <https://www2.deloitte.com/content/dam/Deloitte/us/Documents/about-deloitte/us-cloud-value-calculator-infographic.pdf>
16. Finance Online: <https://financesonline.com/cloud-computing-statistics/>
17. Forrester: <https://reprints2.forrester.com/#/assets/2/82/RES157473/report>
18. VMware: <https://www.vmware.com/be/cloud-solutions/multi-cloud-ops/optimize.html>
19. Amazon: <https://docs.aws.amazon.com/wellarchitected/latest/cost-optimization-pillar/cloud-budgets-and-forecasts.html>
20. Deloitte: https://d1.awsstatic.com/WWPS/pdf/AWS_MAD_Deloitte_TCO_paper.pdf
21. Opsani: <https://opsani.com/resources/finops-101/>
22. Data Center Knowledge: <https://www.datacenterknowledge.com/cloud/survey-most-companies-are-failing-cloud-cost-management>

About DevPro



Dev.Pro is a software engineering services firm that helps technology companies meet their growth ambitions through talent outsourcing.

Dev.Pro can execute complete projects according to client specifications, or create teams working under your direction. With a pool of more than 600 highly skilled specialists, Dev.Pro can build engineering units with nearly any skillset. Most of the company's work focuses on cloud, DevOps, and test automation services. Dev.Pro also offers UI design, analytics, and systems integration services.

Dev.Pro engages with clients in a transparent and collaborative manner, offering daily real-time interactions and full visibility into our progress and deliverables. Our mission is to help our clients build their products faster and capture market share from the competition. Over 90% of Dev.Pro's business comes from existing clients and referrals, a strong indicator of how our company consistently delivers high-quality results.

Dev.Pro Capabilities:

- Cloud Computing
- DevOps
- QA and Testing
- Reporting and Analytics
- System Integration
- UI/UX
- Digital Transformation
- Digital Commerce
- Blockchain

Dev.Pro in Numbers:

- 600+ highly skilled specialists
- 10 years of reliable service and growth
- 90% of clients are repeat customers or referrals from satisfied clients
- 150+ projects delivered successfully
- 4 development centers in Ukraine and the U.S.

About Author:



Sergii Sinienok
Head of Delivery Practices
sergii.sinienok@dev.pro

Dev.Pro Offices:

KHARKIV

 Nauky Ave. 45/3, build. 1
(Monte-Plaza building)

Email: info@dev.pro

KYIV

 Klovs'kyi uzviz 7, Business Center
"Carnegie Center"

DNIPRO

 Voznesenska St. 50

CHARLOTTE, NC

 3420 Toringdon way, Suite 340,
Charlotte, NC, 28277, USA



Disclaimer: While the information was provided based on the expertise available at a time, it may evolve and should not be taken as a single source of truth for purposes of commercial or business intent. Please verify the best course of action with a professional cloud optimization service provider.

Publication date: 1 November 2021