

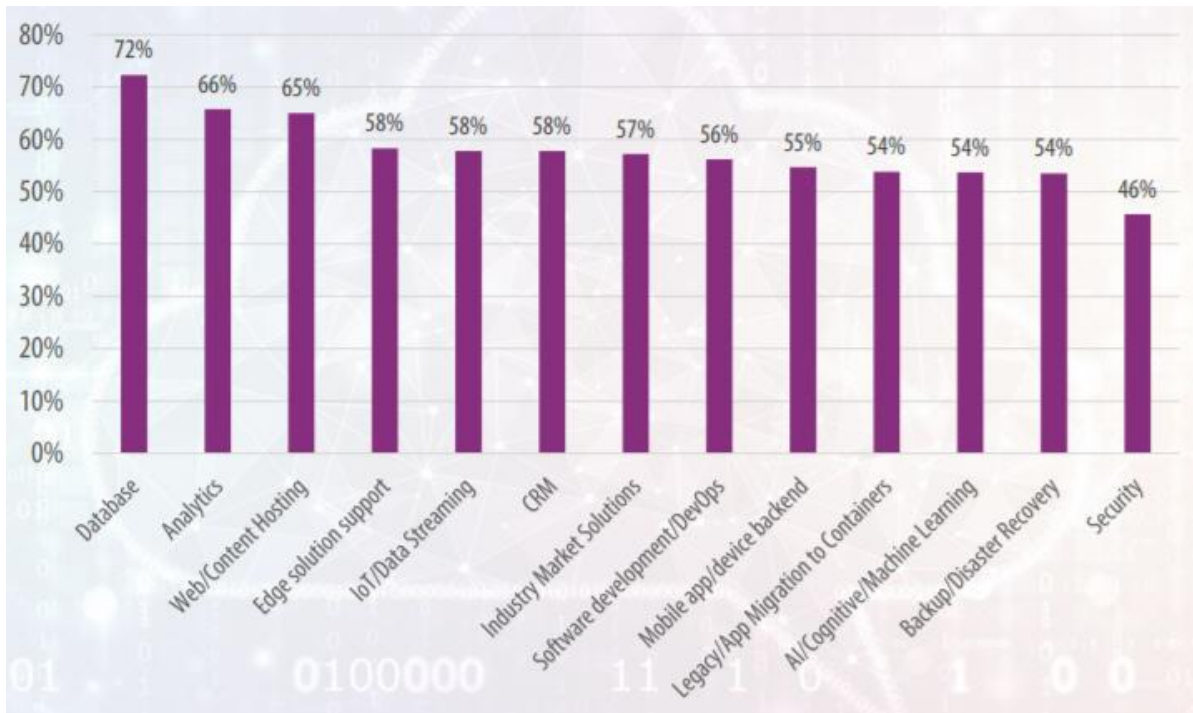
What workloads run best on which clouds?

- BY DAVID RAMEL
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Cloud computing workloads are spread relatively evenly across public, private and private platforms from the major players – Amazon Web Service, Microsoft Azure and Google Cloud Platform (GCP), though what jobs runs on what platforms tends to vary, according to a new report from TECHanalysis Research.

Of the 600 medium and large U.S.-based organizations using cloud for several years, 40% of workloads are run in a public cloud, 31% in an on-premise legacy environment and 29% in a private or hybrid cloud. cloud. The top cloud platforms were Azure at 72%, AWS and GCP at 53% and IBM with 47%.

The most popular workloads across all three approaches are: databases, analytics and web/content hosting.



Source: *TECHanalysis Research*

The mix of cloud workloads varies by provider, though. For example, while databases are No. 1 on Azure and GCP, the top workload on AWS is web/content hosting, as shown here:

Top 5 Workloads Per Cloud Provider		
Microsoft Azure	Amazon AWS	Google GCP
Database	Web/Content Hosting	Database
Industry Market Solutions	Analytics	Software Development/DevOps
Web/Content Hosting	Database	Industry Market Solutions
IoT/Data Streaming	AI/Cognitive/Machine Learning	Analytics
Software Development/DevOps	IoT/Data Streaming	Legacy/App Migration to Containers

Source: *TECHanalysis Research*

Other key takeaways from the report include:

- Top software-as-a-service applications: Microsoft Office 365 (68% of respondents), Microsoft SharePoint (42%) and Google G Suite (37%).
- Top factors in selecting cloud providers (no percentages given): quality of management tools, quality of programming tools, price.
- Top reasons for moving to cloud: performance improvements (36%), cost savings (32.9%), create new products or services (31.8%).

- Top reasons for not moving to cloud: security (52.5%), regulatory requirements (43.7%), lack of internal development skills (42.3%).

On the latter two findings, Technalysis President Bob O'Donnell said, "The top reasons that survey respondents gave for migrating workloads to the cloud are to improve performance, to increase security, and because of the need to modernize applications. Cost savings actually came in fourth. Ironically, the top reasons those same companies cited for not moving some of their applications to the cloud were very similar: security concerns, performance challenges, regulatory requirements and costs. These dichotomies highlight the ongoing challenges and opposing forces that are a regular part of the modern cloud computing landscape."

More information can be found in O'Donnell's [blog post](#), which includes a link to a free preview of the for-pay report.

This [article](#) was originally posted on Virtualization Review, a sibling site to GCN.

About the Author

David Ramel is an editor and writer for Converge360.

https://gcn.com/articles/2020/01/28/cloud-workloads-best-platforms.aspx?s=gcnsctot_310120&oly_enc_id=