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Research Document

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Azure Component	Purpose	Alternatives	Research
Azure Virtual Machines	Run Windows or Linux-based workloads on the cloud with flexible and granular control	Amazon Elastic compute cloud (EC2)	Azure VMs offer more flexible and granular control over resources, making it easier for businesses to optimize costs and performance compared to EC2
Azure App Service	Fully managed platform for building, deploying, and scaling web apps and APIs with support for various programming languages	Amazon Elastic Beanstalk	Azure App Services provides a more integrated and streamlined experience compared to Elastic Beanstalk, making it easier for developers to deploy and manage their applications.
Azure SQL Database	Fully managed relational database services that provides high availability, scalability, and security with support for various data engines	Amazon Relational Database Service (RDS)	Azure SQL Database provides more flexible and granular control over resources compared to RDS, making it easier for businesses to optimize costs and performance
Functions	Serverless computing service to run code on-demand without worrying about infrastructure.	AWS Lambda	Azure Functions provides a more integrated and streamlined experience compared to AWS Lambda, making it easier to write and deploy serverless applications.
Cosmos DB	Globally distributed, multi-model database service that provides high scalability and availability	Amazon DynamoDB	Azure Cosmos DB offers better consistency and throughput compared to DynamoDB, making it easier for business to handle large and unpredictable workloads.
Kubernetes Service	Fully managed Kubernetes service that allows businesses to deploy and manage containerized applications at scale	Amazon Elastic Kubernetes Services (EKS)	Azure Kubernetes Service provides a more integrated and streamlined experience compared to EKS, making it easier for businesses to scale their applications