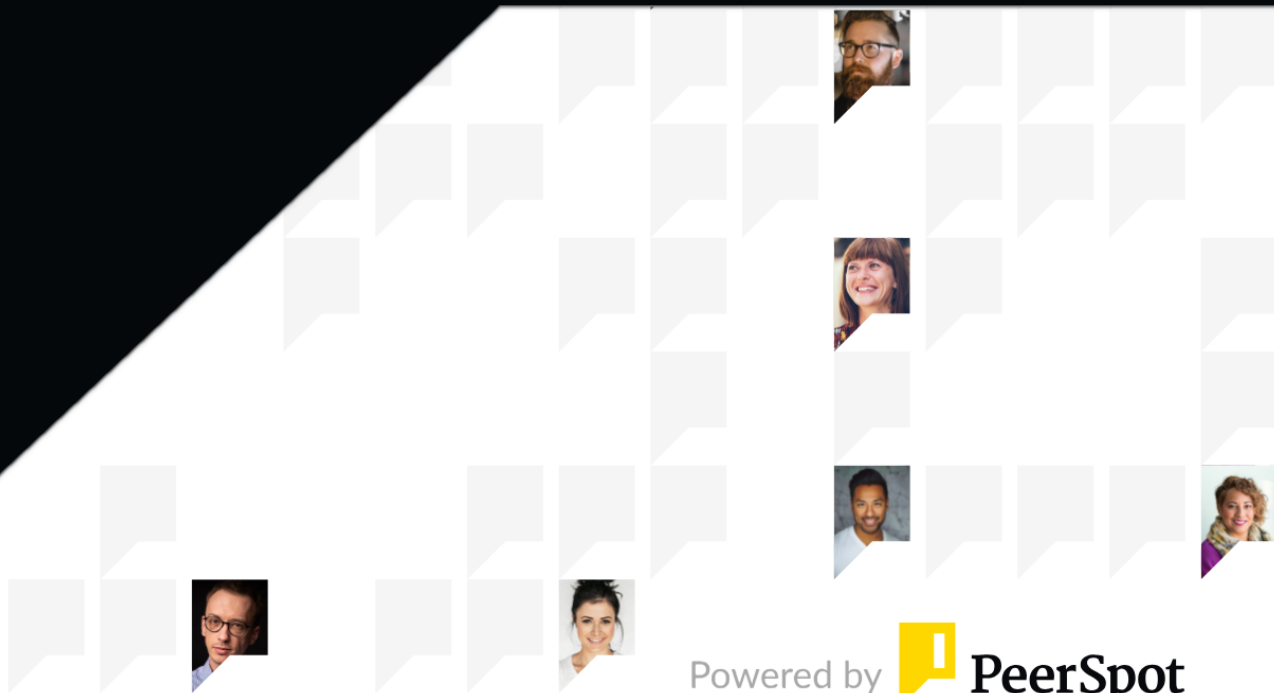


aws marketplace

Liquibase

Reviews, tips, and advice from real users



Powered by  PeerSpot

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Product Recap



Liquibase

Liquibase Recap

Liquibase is a solution for database change management that automates scripts and integrates with MySQL, MSSQL, and PostgreSQL. It simplifies database syncing, reduces risks, and supports SQL validation while effectively tracking schema updates in DevOps environments.

Liquibase offers a robust platform for automating database changes, effectively supporting integration with CI/CD pipelines. Users benefit from its capabilities to manage changesets and changelogs, ensuring controlled rollbacks and pre-deployment checks. Liquibase is highly valuable for managing database-as-code tasks like schema creation and maintaining migrations. Despite its strengths, areas like security, documentation on automation, and performance during diff operations, especially in large-scale situations, could see improvements. Integration challenges with Git, particularly with changelog file conflicts, are noted by users who also seek an enhanced newcomer experience.

What are Liquibase's Most Important Features?

- Automation of database scripts: Streamlines database changes, reducing manual intervention.
- CI/CD integration: Enables seamless integration into existing DevOps pipelines.
- Changeset and changelog management: Facilitates organized tracking of schema changes.
- Rollback capabilities: Allows reverting to previous database states without raw SQL execution.
- SQL code validation support: Offers a rules engine to ensure database script integrity.

What Benefits Should Users Look for in Liquibase?

- Database consistency: Minimizes the risk of inconsistent changes across platforms.
- Efficiency in operations: Enhances productivity through automated processes.
- Risk reduction: Supports controlled rollbacks and pre-deployment checks.
- Streamlined deployment: Facilitates integration with Docker and AWS for efficient deployment.

In DevOps environments, Liquibase is crucial for automating database changes and ensuring migrations are consistent across various platforms. Financial institutions and e-commerce companies frequently implement Liquibase to synchronize multiple databases via Jenkins pipelines, promoting reliable change management and operational efficiency.

Valuable Features

Excerpts from real customer reviews on PeerSpot:



“By minimizing errors, minimizing time, with an incredible cost saving, eliminating database incidents, having a diff inspector against our baseline to know which client schemas are outdated or not up to date, to know what differences there are between the different schemas, this has produced an immense cost saving for us.”



Antonio Tirado Peña

Directo de TI at Instituto de Innovación Ciencia y Empresa



“Liquibase has positively impacted my organization by maintaining database consistency across all environments.”



Akashkhurana Hirana

Senior Software Engineer 2 at Porch



“Liquibase is a very powerful tool in terms of database automation.”



Sjamjam Jamjan

Lead Devops Engineer at a computer software company with 201-500 employees

- ✓ “Liquibase has positively impacted my organization by significantly increasing deployment frequency for database changes.”



Jack_Mansur

Security Solution Specialist at Splunk

- ✓ “Liquibase has positively impacted my organization by eliminating the risk around database changes.”



Verified user

Owner

- ✓ “Liquibase has positively impacted my organization by providing a way to manage database migrations instead of maintaining raw SQL, which comes with the issue of not being able to track certain schema updates or new table creations.”



Verified user

Software Engineer

- ✓ “Liquibase has positively impacted my organization by speeding up the deployment process in the CI/CD framework, being much more useful than different solutions for database deployment that we used before.”



Verified user

marcin.molak@core3.pl at a tech services company with 51-200 employees

What users had to say about valuable features:

“The best features Liquibase offers are the schema change sets and the change tracking on any kind of change in the database.

I definitely find that the change tracking feature makes my workflow easier.

Liquibase has positively impacted my organization by eliminating the risk around database changes.

Eliminating that risk has affected my team and business overall by removing costly downtime when trying to revert a problem deploy with a database..”

Verified user

Owner

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“The best features Liquibase offers include the DATABASECHANGELOG table, which is deceptively simple but is the foundation of everything. Every change that has ever been applied is logged there, including who wrote it, when it ran, which environment, and the checksum.

“Having that detailed tracking from Liquibase definitely helps me and my team day-to-day, making troubleshooting or audits easier.

“Drift Detection is the other feature I would fight for, as the moment someone makes a manual change to a database outside the pipeline, it shows up. In a regulated environment, that is not just useful, it is necessary..”

Jack_Mansur

Security Solution Specialist at Splunk

[Read full review](#) 

“The best features Liquibase offers compared to competitors include its flexibility with the options of files that you could use for delivery, such as YAML, XML, and SQL, providing various possibilities to deliver the best script for various deployments.

“The flexibility of using different file formats in my day-to-day work can be easier if I use YAML or XML files for applications, which are set up based on various RDBMS; however, for data warehouse, SQL code is more useful because the code is much longer, based only on one database type, and that is why we use SQL for warehousing and XML or YAML file for application deployment.

“Liquibase has positively impacted my organization by speeding up the deployment process in the CI/CD framework, being much more useful than different solutions for database deployment that we used before.

“While we did not create any KPI for that, we notice it is much quicker, especially in application deployment when we have only two configuration files for various database setups, allowing us to deploy a new version of an application within minutes instead of hours; for data warehousing, we use a lot of variables that enable us to create dynamic stored procedures, making it feasible even without KPIs, as it saves our team from having to recreate code for various environments..”

Verified user

[Read full review](#) 

marcin.molak@core3.pl at a tech services company with 51-200 employees

“Before having Liquibase, we had no control over the software that was running in each of the clients' schemas. Liquibase has provided us with a quick way to find errors in those clients where functions or procedures were outdated.

Every time we have a deployment for a new client, Liquibase, by working like GitOps for database-related matters, makes deployments and the creation of new schemas enormously easier for us.

The best features that Liquibase has are database engine abstraction, programmable code re-execution, granular deployments with contexts and labels, the automated rollback strategy and, above all, inspection and diff and baseline generation.

The rollback strategy allows us to roll back certain deployments that have gone to production with errors. In such a way that we always have a possible mechanism to roll that step back to the previous version for everything related to functions and procedures and table structure inside the database. What I like most about rollback is that we can define a rollback block directly in XML or YAML and Liquibase understands perfectly where it has to go back.

By minimizing errors, minimizing time, with an incredible cost saving, eliminating database incidents, having a diff inspector against our baseline to know which client schemas are outdated or not up to date, to know what differences there are between the different schemas, this has produced an immense cost saving for us. Before, it was very manual, very tedious work and very prone to errors. I have a metric, I have a KPI on errors produced in the database. These errors have decreased almost to zero since we have been using Liquibase..”

Antonio Tirado Peña

Directo de TI at Instituto de Innovación Ciencia y Empresa

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“Liquibase's valuable features include database deployment and rollback scripts, where we kept our scripts in SQL format. When we deployed using CI/CD, it connected to Liquibase and deployed those scripts to the desired database. We integrated it with CI/CD Jenkins to execute all Liquibase operations, and the logs were retained for around two to three months.

“Liquibase's adaptive change scripts benefited our database management process significantly. Previously, if someone logged into the database, they could make changes without any information or change orders. We restricted the DB servers to the DB team specifically. Whenever they wanted to execute changes, they had to go through the change order process, and we would not provide them the password until then. We maintained complete logs so that if any database change occurred and an application stopped working, we had change orders to reference and determine whether it was a legitimate change or a normal variation.

“Liquibase's rollback functionality impacted our deployment downtime positively. We would take a backup before anything was executed on the database while we had the change order. Once execution occurred, we performed sanity checks by the application team. If the checks passed, we proceeded. If not, we restored the same copy to avoid database outages.

“Liquibase is a very powerful tool in terms of database automation..”

Sjamjam Jamjan

Lead Devops Engineer at a computer software company with 201-500 employees

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“The best features Liquibase offers include the database rollback mechanism, open source availability at no cost, and the ability to connect to all relational databases including MySQL, SQL Server, and PostgreSQL. Liquibase provides a rollback mechanism, transaction and lock management, database version control, and change tracking. It maintains a history table in one of the schemas that records which changes have been applied and which changes remain pending. If I need to migrate from PostgreSQL to MySQL in the future, I only need to change the URL and credentials without modifying the database structure, as Liquibase handles everything automatically. Liquibase has a vast community with widespread usage, particularly with Spring Boot microservices applications.

“Out of all these features, I rely most on database version control in my daily work to maintain a history of when I added columns or tables. The rollback support is excellent and maintains consistency across all environments including development, staging, and production. Liquibase provides a feature to check database differences across multiple environments in QA, development, and production. I can easily compare databases or changes between development and QA environments using this feature.

“Liquibase integrates easily with CI/CD tools including Jenkins, GitHub Actions, and GitLab with extensive support for these integrations. Liquibase has positively impacted my organization by maintaining database consistency across all environments. Inconsistent databases increase debugging time for engineers and associated costs, and can impact users. The primary benefit Liquibase provides is database consistency, ensuring a consistent database across all environments..”

Akashkhurana Hirana

Senior Software Engineer 2 at Porch

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Other Solutions Considered

“We previously used migrations within NodeJS, but when the product started to scale and we had more and more clients and more schemas, the solution did not seem feasible..”

Antonio Tirado Peña

Directo de TI at Instituto de Innovación Ciencia y Empresa

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“I changed companies, which is why I stopped using Liquibase. The previous organization was still using Liquibase, and there was no switching of the product. However, I moved to a different organization..”

Sjamjam Jamjan

Lead Devops Engineer at a computer software company with 201-500 employees

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“We evaluated other options. We evaluated, for example, Flyway, Redgate, and DBmaestro, but Liquibase convinced us because of the price and the direct functionality we were looking for regarding migrations..”

Antonio Tirado Peña

Directo de TI at Instituto de Innovación Ciencia y Empresa

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ROI

Real user quotes about their ROI:

“It will be useful for teams to automate and reduce manual work. It's not only for one specific team; it's across the team.

We saw tangible benefits from using Liquibase in terms of costs and resource savings.

We reduced our manual intervention by not having to reach out to multiple teams. For example, when executing scripts, we had to reach out to the database team every time we developed a new script to deploy it.

By using Liquibase, we write the script and compile it. If the build succeeds, we go back to our deployment tool and update our Active Directory so that it will be deployed into the desired environment. This reduces a lot of manual intervention..”

Sudheer Kumar Jamjam

Technical Lead Cloud DevOps Engineer at Deloitte

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Use Case

“My main use case for Liquibase is database change management inside our CI/CD pipelines. Before Liquibase, someone would have to manually run SQL scripts against the database and hope for the best..”

Jack_Mansur

Security Solution Specialist at Splunk

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“My main use case for Liquibase is because, for our product NormaPro, we have different databases and different data schemas for each of our clients. The database, apart from the table architecture and so on, has a lot of business logic embedded within functions and procedures. Liquibase is our main solution for new client provisioning, for deployments of the entire database architecture and all functions and procedures, to find differences between the different database schemas of our clients, and to apply updates and fixes..”

Antonio Tirado Peña

Directo de TI at Instituto de Innovación Ciencia y Empresa

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“My main use case for Liquibase is syncing different databases. I have an RDS cluster with different databases, and when there is a change in one database, I sync the other databases with the same changes.

I created a Jenkins pipeline with designed workflows. Using that pipeline, if there is a change in one database or multiple DDL or DML changes occur, developers can use the pipeline to make changes directly in one database and sync to other databases..”

Verified user

[Read full review](#) 

Devops Engineer at a tech vendor with 51-200 employees

“My main use case for Liquibase is database versioning and change set management.

A specific example of how I use Liquibase for database versioning and change set management is that it ensures my schemas are versioned instead of losing track of them over time. Liquibase automatically rolls back changes if there are problems during a release, making the process simple.

In addition to my main use case, Liquibase has helped us solve the issue of reverting changes..”

Verified user

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Owner

“My main use case for Liquibase is currently data warehouse deployment.

“For data warehouse deployment, we have a product with SQL Server, and we use Liquibase as part of scripts for data warehouse layers with CI/CD based on a copy solution.

“Another use case connected with Liquibase is application deployment; it was an application based on Oracle and SQL Server databases, and we use Liquibase as a deployment method for both databases..”

Verified user

[Read full review](#) 

marcin.molak@core3.pl at a tech services company with 51-200 employees

“My main use case for Liquibase is version control of database schema, automatic migration during application startup, and rollback support. It provides environment consistency and maintains the same database across development, testing, production, or SIT environments. Liquibase is configurable with many databases including PostgreSQL, MySQL, Oracle, and SQL Server. I use Liquibase with Spring Boot applications, which makes it function as a version control system for the database.

“A specific example of how I have used Liquibase in one of my projects occurred when we started a project from scratch with new requirements. We had a requirement for a notification table and needed to add new columns to existing tables. I maintained the database schema as a versioned component by writing Liquibase scripts to create a new table and alter an existing table, with each change in separate script files. During application startup, these scripts executed automatically if they had not been executed previously in the database, maintaining consistency. Regarding rollback, when I wrote a script to add an index to a column in a table that passed in the development environment but failed in the QA environment, Liquibase supported rolling back the changes that had been executed in one of the environments.

“I use Liquibase daily with Spring Boot applications and microservices, placing the migration files in the application. Liquibase acquires the lock when altering a table to add a new index, so I typically schedule these changes during off-business hours to avoid impacting customers..”

Akashkhurana Hirana

Senior Software Engineer 2 at Porch

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Setup

The setup process involves configuring and preparing the product or service for use, which may include tasks such as installation, account creation, initial configuration, and troubleshooting any issues that may arise. Below you can find real user quotes about the setup process.

“The solution's initial setup is easy if we use the Docker version. We have done a POC on our local tool. It was easy to install Liquibase in our local CLI..”

Tejaswi Mankala

DC Analyst at Deloitte

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“Basically, what we launch is a pipeline where all the database changes are provided and Liquibase is responsible for coordinating and controlling all the schemas of all clients to apply the changes to all of them at once..”

Antonio Tirado Peña

Directo de TI at Instituto de Innovación Ciencia y Empresa

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“The advice I would give to others looking into using Liquibase is that the initial setup might require some time and extra configuration file changes, but that time investment is worthwhile because Liquibase is very helpful when the database is complex and changes occur frequently..”

Akashkhurana Hirana

Senior Software Engineer 2 at Porch

[Read full review](#) 

“For the very first time, the initial setup was a medium complex. One thing we faced issues with is that **Liquibase does not show the exact error**, which added to the complexity.

Suppose it fails with an error. It won't display the exact error on the CI side. For example, if you integrate Liquibase with Jenkins and your database scripts fail due to syntax errors, it won't show the exact error. It's not user-friendly in that aspect..”

Sudheer Kumar Jamjam

Technical Lead Cloud DevOps Engineer at Deloitte

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Customer Service and Support

“Technical support has been great. They helped us all the way through the initial implementation and have always been very helpful. We're very satisfied with their service. They are always very responsive..”

Verified user

Director, Systems Engineering & Technology at a tech services company with 201-500 employees

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Other Advice

“Liquibase is overall good software, but for first-time users, it could be more intuitive. Everything else works well. I would rate this review as a six..”

Verified user

Devops Engineer at a tech vendor with 51-200 employees

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“I should not hesitate to recommend Liquibase because if you have an environment like ours, where you run many databases, each one for each client, to maintain consistency with the version that is running, it is an essential tool. Liquibase is great software that makes life and maintenance of client databases easier. I give this product a rating of eight out of ten..”

Antonio Tirado Peña

Directo de TI at Instituto de Innovación Ciencia y Empresa

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“Regarding Liquibase's AI capabilities, I think it is secure due to the lack of SQL injection, and that suffices for that solution.

“In terms of Liquibase's AI capabilities, its accuracy and reliability of output is currently very reliable for the solution that we need.

“My advice for others looking into using Liquibase is that they should connect it with [GitHub](#) actions because it is a really useful solution. I give this review an overall rating of 10..”

Verified user

marcin.molak@core3.pl at a tech services company with 51-200 employees

[Read full review](#) 

“In terms of features and improvability, Liquibase is the best option in the market to maintain database version control.

“Regarding Liquibase's AI capabilities, I think it provides additional solutions for security purposes, but I have not used those features. My use case has focused only on database consistency. For database security and governance, Liquibase keeps production data safe with controlled schema changes and separates duties by designating which changes should occur in development, production, and QA environments.

“I have not used Liquibase's AI capabilities.

“I did not purchase Liquibase through the [Google Cloud Marketplace](#) because it is free and available at no cost. There is no need to purchase a paid plan.

“I give this product a rating of nine out of ten..”

Akashkhurana Hirana

Senior Software Engineer 2 at Porch

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“I rate Liquibase a nine out of ten. We used the Community Edition for Liquibase.

“We used Liquibase's changelog feature extensively. The changelog contains complete information about all the scripts we executed and presents it as event data.

“Liquibase's CLI was powerful. We executed scripts through the CLI, and from CI/CD, we called those commands using the CLI.

“We built a separate tool for monitoring the databases where we logged the query speed in terms of Liquibase's tracing and monitoring capabilities helping with compliance for our enterprise. We were not using any inbuilt tool from Liquibase. In terms of compliance and audit, we had the challenge that the compliance team would spend weeks gathering manual evidence for audits. We maintained change orders where we kept the change queries that we were going to execute on the production database from the DBA so that everything would be compliant because of these change orders.

“My overall review rating for Liquibase is a nine out of ten..”

Sjamjam Jamjan

Lead Devops Engineer at a computer software company with 201-500 employees

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“On a scale of one to ten, I rate Liquibase overall as an eight.

“I rate it an eight because it fundamentally solved the problem that was genuinely painful and had not been solved well by anything else we evaluated.

“Regarding Liquibase's AI capabilities, I think its governance and security are solid.

“Regarding Liquibase's AI capabilities, I believe its accuracy and reliability of output could be improved.

“We deploy Liquibase using [GitHub Actions](#) and [Jenkins](#) depending on the client

environment. Liquibase itself runs as part of the pipeline job, connects to the target database, applies the pending change sets, and exits. There is no separate server to manage.

“My experience with pricing, setup cost, and licensing is that the open-source version is free and genuinely capable for most use cases. We moved to Liquibase Secure for the governance features: audit logs, Drift Detection, policy enforcement, and separation of duties..”

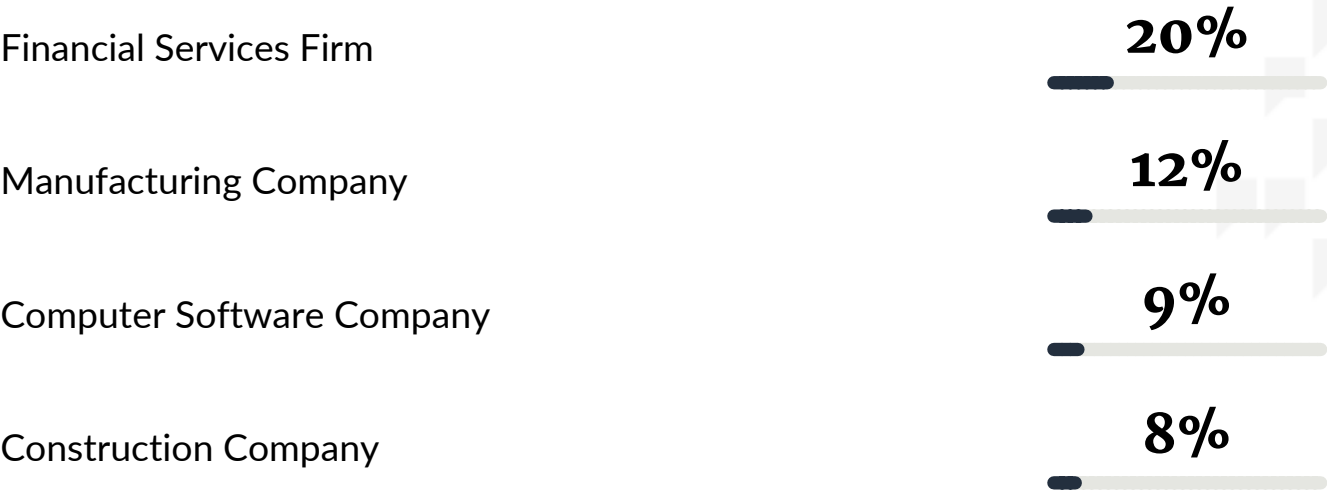
Jack_Mansur

Security Solution Specialist at Splunk

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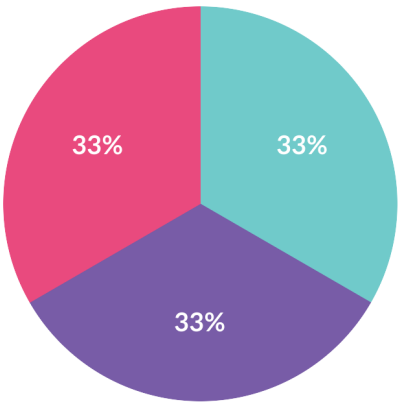
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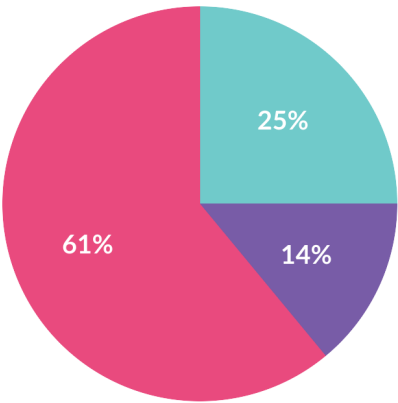


Company Size

by reviewers



by visitors reading reviews



Large Enterprise Midsized Enterprise Small Business

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