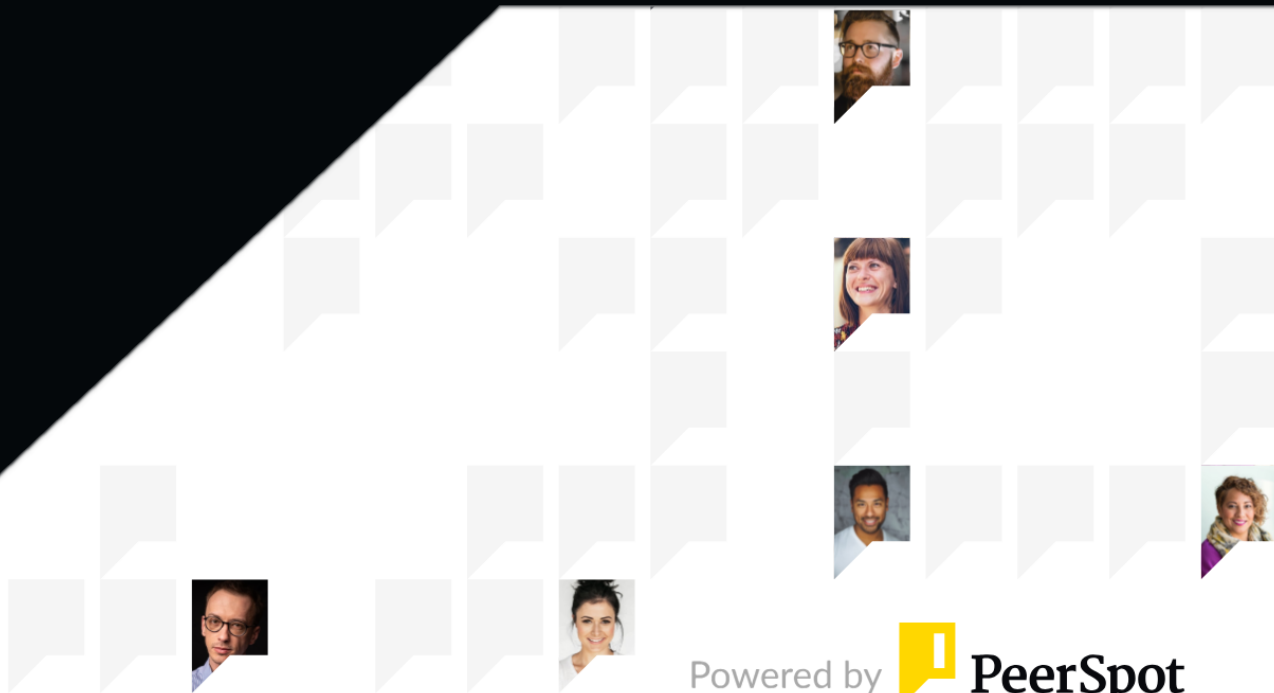




Pulumi Enterprise

Reviews, tips, and advice from real users



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Contents

Product Recap..... 3 - 4

Valuable Features..... 5 - 13

Other Solutions Considered..... 14 - 16

ROI..... 17 - 19

Use Case..... 20 - 23

Setup..... 24

Customer Service and Support..... 25 - 26

Other Advice..... 27 - 29

Trends..... 30 - 31

About PeerSpot..... 32 - 33

Product Recap



Pulumi Enterprise

Pulumi Enterprise Recap

Pulumi Enterprise empowers organizations with advanced infrastructure-as-code capabilities designed to enhance cloud adoption strategies, optimizing IT operations efficiently.

Pulumi Enterprise leverages infrastructure-as-code to aid teams in deploying and managing cloud resources seamlessly. It supports multiple cloud providers, allowing for consistent deployment strategies across platforms while promoting collaboration. Its focus on security, automation, and policy enforcement aims to elevate cloud operational efficiency and compliance.

What are the key features of Pulumi Enterprise?

- **Infrastructure as Code:** Enables teams to use code to provision and manage cloud resources, promoting consistency.
- **Multi-cloud Deployment:** Offers support for simultaneous use of major cloud providers like AWS, Azure, and Google Cloud.
- **Policy as Code:** Ensures security and compliance through policies integrated into the codebase.
- **Collaboration Tools:** Facilitates teamwork with built-in sharing capabilities and version control integration.
- **Secure Workflows:** Protects deployment processes through role-based access control.

What benefits should users expect from Pulumi Enterprise?

- **Enhanced Efficiency:** Streamlines cloud workflow processes, reducing time spent on manual tasks.
- **Cost Reduction:** Code-based infrastructure management can lead to lower operational costs by minimizing resource waste.
- **Improved Compliance:** Automated policy enforcement ensures adherence to regulations and internal policies.
- **Scalability:** Supports growing workloads and multiple teams, adapting to changing business demands.

Pulumi Enterprise is implemented across diverse industries, aiding in the rapid deployment of cloud services essential for today's digital-first strategies. Financial institutions leverage it for secure cloud transactions, while tech companies find it valuable for scaling development and production environments efficiently.

Valuable Features

Excerpts from real customer reviews on PeerSpot:



“Pulumi Enterprise is a great tool for infrastructure as code deployments, and you can do it with any programming language, so it's quite useful.”



Shrenik Jobanputra

DevOps engineer at a mining and metals company with 10,001+ employees



“Pulumi Enterprise has impacted my organization positively as it is a modern infrastructure as code tool that helps us manage resources efficiently and reduce delivery time.”



Sergey Buylov

Senior Dev Ops Engineer at a manufacturing company with 10,001+ employees



“Before using Pulumi Enterprise, our deployment time was between thirty minutes to an hour, and now we can change anything in our cloud environment in just a few minutes, like two or three minutes, generally reducing time by about sixty to seventy percent.”



Antonio Neto

Senior Software Engineer at a consultancy with 11-50 employees

- ✓ “Pulumi Enterprise has allowed us to be much more confident in the code changes that we are actually deploying and releasing, and, as an example, we're now unit testing all of our Pulumi Enterprise infrastructure as part of the CI pipeline, so we know quite confidently that the change is actually going to be successful before it's been deployed, which has been hugely beneficial for us.”



Connor

Technical Lead at a consultancy with 11-50 employees

- ✓ “Pulumi Enterprise is a very complete tool and it helps us a lot in our day-to-day work.”



Thiago Chaves

Dev Ops Engineer at Enjoei

- ✓ “Pulumi Enterprise is way better than Terraform in my opinion because it has a declarative syntax that Terraform does not have, which is really valuable.”



Verified user

SRE at a university with 10,001+ employees



“Pulumi Enterprise has impacted my organization positively because before Pulumi, we did not have any real infrastructure as code, and having multiple environments and AWS accounts that we needed to manage was difficult.”



Zvonimir Burić

Platform Engineer at a consumer goods company with 501-1,000 employees

What users had to say about valuable features:

The best features Pulumi Enterprise offers include reusable components because it is actual code, so we have many reusable components, and infrastructure testing in a real language.

Reusable components and infrastructure testing in a real language have helped my team a lot because we can test things before shipping it and before making changes, which is really useful. If something is going to break, we know in advance. .”

Verified user

SRE at a university with 10,001+ employees

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“The best feature that Pulumi Enterprise offers is the deployment, running, creating the stack, managing all those stacks. For example, for development, we have an individual stack for development. For QA, we have another stack. And for production, for non-prod, for other stacks also, they have independent stacks that are totally independent on their own. Nothing is dependent on any other stack. As soon as we are deploying any changes on the development, it is going to be deployed on the development only.

“The deployment checks stand out the most valuable for me because it allows me to debug my environment. For example, if I run any change in the production environment, it will give me a URL which will show a preview of what is the difference we are going to apply on our current infrastructure and what was earlier. I can share that URL with my peers, with my colleagues, and they can also see what is actually going to happen with this change. That is the most valuable thing I have personally perceived, and my other team members also feel it is a very important feature of this..”

G Srivastava

Senior Cloud Engineer at a tech services company with 201-500 employees

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“Pulumi Enterprise offers very good features. I really appreciate the access control with permissions and detailed permissions by role or team, which we use for our developer team. This is the main feature I appreciate, as there are different levels within our team. Policy management, policy as code, and audit logs are also beneficial because when a starter developer makes a mistake, we can check the audit log.

“Pulumi Enterprise has positively impacted our organization by enabling fast deployments and providing a centralized configuration for our two environments, development and production. With separated stacks, we can replicate the same environment on both sides.

“Before using Pulumi Enterprise, our deployment time was between thirty minutes to an hour. Now with Pulumi Enterprise, we can change anything in our cloud environment in just a few minutes, like two or three minutes. Of course, there are more complex situations that differ in time, but in general, we have reduced time by about sixty to seventy percent..”

Antonio Neto

Senior Software Engineer at a consultancy with 11-50 employees

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“The best features Pulumi offers are that it functions as a framework inside a programming language. You can use multiple programming languages, and we use TypeScript. This gives you all the flexibility and features of the programming language you chose, such as functions and loops. You can even connect with APIs and external services to have the logic of creating and managing those resources.

Using TypeScript with Pulumi has helped my team because this flexibility enables us to connect different things. It is not static the way it is with Terraform, but rather super dynamic as it is when you program any custom code. This flexibility has helped us.

Pulumi has impacted my organization positively because before Pulumi, we did not have any real infrastructure as code, and having multiple environments and AWS accounts that we needed to manage was difficult.

I cannot quantify the positive outcomes, but we definitely have a more professional setup now than we used to have before. When we develop a feature, we know for certain that it gets from dev to stage and prod with the same infrastructure..”

Zvonimir Burić

Platform Engineer at a consumer goods company with 501-1,000 employees

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“The best feature of Pulumi Enterprise is that it is platform agnostic, so you can deploy to AWS or Azure. We use TypeScript for Pulumi Enterprise, and you can use any programming language such as Python as well. This is very useful because I'm familiar with TypeScript, so I've used that with Pulumi Enterprise.

“I used to use Terraform before, and Terraform uses the HashiCorp language which is a bit different. That takes some time to learn. However, TypeScript is a familiar language for me because I've used it in university. I definitely used it very easily in Pulumi Enterprise because things such as for loops, if statements, and the way you write the syntax of the code is quite useful. I haven't tried Pulumi Enterprise in other languages, but I have seen the documentation in Python mostly. Pulumi Enterprise documentation is very detailed, and I highly recommend it because it's very easy to look at.

“We've been changing from Terraform to Pulumi Enterprise and converting all the codebases from Terraform to Pulumi Enterprise. It has made things better and more standardized. Pulumi Enterprise is a great infrastructure as code tool.

“It has definitely saved time and actually improved confidentiality as well because Pulumi Enterprise stores secrets in a very secure way. The infrastructure as code that we've written is very easy to write, and you can write in TypeScript quite easily as compared to other languages..”

Shrenik Jobanputra

DevOps engineer at a mining and metals company with 10,001+ employees

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“The main reason for adopting Pulumi Enterprise regarding the infrastructure-as-code part is the ability to use the .NET language. Since our products were developed in .NET, we understood that it would be interesting to have an infrastructure-as-code tool that could be used with the same language we already had knowledge of.

“I believe that the best features Pulumi Enterprise offers us are the stacks, which allowed us to separate the development, staging, and production environments, and to have a YAML configuration file where we defined the different tiers per environment. Additionally, the built-in secret management was invaluable. We were able to create Pulumi secrets without needing to use an external provider, a Key Vault, or HashiCorp Vault.

“Regarding the environment separation and the built-in secrets management, these features had a positive impact on my day-to-day work and the security of operations. With separation by stacks, we did not need to keep duplicating code. We used the same code for all environments, but changed the particulars related to compute power size, number of replicas in a given cluster, etc. As for secrets, it made things much easier because we did not need to point to a source or an external vault. This also helped a lot from a security standpoint because we did not need to have the password hardcoded.

“Pulumi Enterprise has had a positive impact on my organization in terms of agility, standardization, and governance in the infrastructure-as-code area.

“Regarding how these improvements in agility, standardization, and governance showed up in practice within my team, we were able to maintain a standardized structure for multiple resources. If I were to do it manually, I would probably have many resources in different forms, done by different people. When we use infrastructure as code, we can have code that is easily replicated and distributed for the creation of multiple resources while maintaining the standard. There is also the governance part because we can organize who is creating the resources. We have a code repository in Git, so we can track who made the change, who made the pull request, and at what time the pipeline ran. Additionally, there is agility in the process. In a use case where we had to create, for example, 200 computers or 200 virtual machines, if I had to do that 200 times manually, it would take much longer. Using a for loop, for example, we did this in a few minutes..”

Other Solutions Considered

“We don't use a different solution. When I joined the company, they were already using Pulumi Enterprise, so I don't have information about evaluating other options..”

Thiago Chaves

Dev Ops Engineer at Enjoei

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“We mostly evaluated against Terraform. Pulumi Enterprise has a better way of handling secrets and is platform-agnostic, so we went with Pulumi Enterprise..”

Shrenik Jobanputra

DevOps engineer at a mining and metals company with 10,001+ employees

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“We did evaluate other options before choosing Pulumi Enterprise, but I can't remember now; as I say, it's been nine or 10 months, and they weren't good enough to remember..”

Connor

Technical Lead at a consultancy with 11-50 employees

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“We previously used Terraform as infrastructure as code, but it was very hard to manage. Terraform is a bit harder to manage. However, Pulumi Enterprise is very easy to manage the codebase, and the file structures make sense..”

Shrenik Jobanputra

[Read full review](#) 

DevOps engineer at a mining and metals company with 10,001+ employees

“I evaluated Terraform, but we chose Pulumi Enterprise as the option for us because of the programming language. We prefer using Python since our main stack here in our project is based on Python, which most developers work with, while Terraform uses a different language..”

Antonio Neto

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Senior Software Engineer at a consultancy with 11-50 employees

“We were using Terraform, Terraform Cloud to provision all the infrastructure, but it has some limitations. Pulumi Enterprise has provided many other features which allowed our customer to change their decision to come and start using Pulumi instead of Terraform.

“We were using Terraform, Terraform Cloud. There were many reasons for switching from Terraform to Pulumi. First of all, the licensing. Earlier the Terraform Cloud license was almost free, and after HashiCorp sold it to IBM, it became costly and it is not still confirmed on the licensing thing from Terraform Cloud. The second thing is that Terraform uses its own language, HCL, HashiCorp configuration language, which does not allow us to use any programming skills such as for loops or if/else statements and other languages. Pulumi is providing six languages to use and set up the infra with. These are the main features that Pulumi has also, which allows us to switch from Terraform to Pulumi..”

G Srivastava

Senior Cloud Engineer at a tech services company with 201-500 employees

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ROI

Real user quotes about their ROI:

“I have not seen any specific outcome or benefit that I have measured so far, such as saving time, reducing errors, or helping my team in a measurable way..”

Hamza Hassan

Founder at ResumizeAI

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“I could definitely say that fewer employees are now needed because everything is automated and the AI capabilities handle it. Pulum Enterprise definitely saves time and saves money that way for companies..”

Shrenik Jobanputra

DevOps engineer at a mining and metals company with 10,001+ employees

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“I have seen a return on investment using Pulum as we need fewer employee resources, and we spend much less time on routine tasks. We probably saved two engineer times with Pulum..”

Sergey Buylov

Senior Dev Ops Engineer at a manufacturing company with 10,001+ employees

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“We have seen a return on investment because it is easier to make infrastructure changes, even without designated DevOps personnel. Developers can make these changes, and we save time due to these automations, allowing us to change environments in less time than we could two years ago..”

Antonio Neto

Senior Software Engineer at a consultancy with 11-50 employees

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“We have already seen a return on investment because we had a reduction in the team. The team used to have 15 people, and today the team has seven people, so the team was cut in half. In terms of cost savings within AWS itself, we can already achieve that with Pulumi as well..”

Thiago Chaves

Dev Ops Engineer at Enjoei

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“I would think the return on investment is that earlier only the infra guys were using any tool to deploy the infra, but in my team, I can see the development team is also encouraged and happy to use Pulumi Enterprise to configure the resources on Azure cloud because they have the programming skills and Pulumi Enterprise is providing features in their tool. I have seen the development team and the testing team who feel or want to do cross-team work, and they are very encouraged and happy to start using Pulumi Enterprise. I think that is how I can say time is being saved, and people are getting encouraged to use any infra tool to configure their infra as per their requirement. That is my experience with me and the other team members and that is what I feel as a return on investment on Pulumi Enterprise..”

G Srivastava

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Senior Cloud Engineer at a tech services company with 201-500 employees

Use Case

“My main use case for Pulumi Enterprise is infrastructure as code, provisioning resources on Azure. For provisioning resources on Azure, it is heavily used for creating Kubernetes clusters, using for example a CI/CD pipeline with Azure DevOps..”

Felipe Santos

Manager, Infrastructure & Cybersecurity at a tech vendor with 11-50 employees

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“We use Pulumi Enterprise with the Python runtime to provision our Azure platform. The client was using Azure platform to create or manage the resources. We started providing them solutions with Pulumi Enterprise and it worked very well because it was managing the managed identities, the DB containers, and the Key Vault access, event hub, and all kinds of these layers. This was incorporated in Pulumi Enterprise. This was our main case for provisioning the infrastructure for our client with the help of Pulumi Enterprise..”

G Srivastava

Senior Cloud Engineer at a tech services company with 201-500 employees

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My main use case for Pulumi Enterprise is as a tool for infrastructure as code. I can give you a quick, specific example of how I use Pulumi Enterprise for infrastructure as code in my day-to-day work: we provision our resources on our cloud account, on our cloud VPC through Pulumi, so everything that we run on our infrastructure is provisioned on the Pulumi repo.

Pulumi Enterprise is way better than Terraform in my opinion because it has a declarative syntax that Terraform does not have, which is really valuable. .”

Verified user

[Read full review](#) 

SRE at a university with 10,001+ employees

“My main use case for Pulumi is provisioning cloud resources.

For provisioning cloud resources, we have repositories for basic setup for AWS account, Kubernetes resources, and network provisioning. We also have GitHub workflows that encapsulate Pulumi. When a team needs an S3 bucket or other resources such as SQS or SNS, they run our workflow in GitHub, which hides the complexity of Pulumi. They simply write a YAML file where they define what resources they need, and it performs the provisioning. All of this is in the same config file, but we have different actions handling it..”

Zvonimir Burić

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Platform Engineer at a consumer goods company with 501-1,000 employees

“My main use case for Pulumi Enterprise is to deploy resources to our main project called MIA, which is basically an AI assistant. We use resources from AWS, including S3, EC2, ECS, ECR, Lambda, SNS, SQS, and others.

“For example, we have a notifier service where we have a Lambda worker that sends messages to an SQS queue, and with this, we have a consumer that sends WhatsApp messages and SMS messages to our customers.

“We are using Pulumi Enterprise with our AI assistant, which is Cloud Code. We encountered some difficulties integrating this with our code assistant, so I believe it could be easier to integrate. I remember a time when Cloud Code made a mistake in the documentation, creating a non-existent parameter and props, which is a common issue I see during my workflow..”

Antonio Neto

Senior Software Engineer at a consultancy with 11-50 employees

[Read full review](#) 

“I use Pulumi Enterprise mainly for provisioning and creating infrastructure within AWS cloud and managing the infrastructure as code.

“For one of our websites that we created for Seven West Media, we had to create the infrastructure such as S3 buckets, EC2 instances, CloudFront distribution, and all the connections along with the VPC. We did all of that in Pulumi Enterprise. We also had to convert a lot of the code from Terraform to Pulumi Enterprise.

“We've been using the AI tool that Pulumi Enterprise provides for converting Terraform to Pulumi Enterprise. It converts Terraform to Pulumi Enterprise, and it's very useful and highly recommended. The Terraform to Pulumi Enterprise AI command is excellent..”

Shrenik Jobanputra

DevOps engineer at a mining and metals company with 10,001+ employees

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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 setup is very easy. I would say one of the main features I think I forgot to add in my initial questions. The setup to use Pulumi Enterprise is very flawless and easy to use for any layman guy. If I give it to configure and start using Pulumi Enterprise to an intern, he will start using it in five minutes. The setup to use Pulumi Enterprise is very easy..”

G Srivastava

Senior Cloud Engineer at a tech services company with 201-500 employees

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Customer Service and Support

“I've actually never needed to reach out to customer support, so I'm not sure, but I would imagine it's quite good because it feels like quite a modern system with modern support..”

Connor

Technical Lead at a consultancy with 11-50 employees

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“Pulumi Enterprise's customer support is very good. We had a small issue, and when we needed to contact them, we got a response in less than 24 hours. I would rate customer support as a 10 on a scale from 1 to 10..”

Thiago Chaves

Dev Ops Engineer at Enjoei

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“Customer support is present, and so far, I have not had any cause for alarm. My experience has been fair.

“On a scale of one to ten, I rate customer support a three because I have not needed to consult them much at all..”

Hammed Akinwale

DevOps & Platform Engineer at a financial services firm with 11-50 employees

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Other Advice

“The advice I would give to other people who are thinking about using Pulumi Enterprise is that the money invested is very worthwhile. I would rate this review a 10..”

Thiago Chaves

Dev Ops Engineer at Enjoei

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“The advice I would give to others who are thinking about using Pulumi Enterprise is to use it if you have development knowledge in some language that Pulumi Enterprise supports, because it is very interesting when you already have a development stack. I would rate this product an 8 out of 10..”

Felipe Santos

Manager, Infrastructure & Cybersecurity at a tech vendor with 11-50 employees

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“I would advise that Pulumi Enterprise is a good option, but it is important to study and gain context before asking AI questions. It is crucial to understand what you are doing in the cloud environment, particularly regarding AWS or other providers. I would rate my overall experience with Pulumi Enterprise an eight out of ten..”

Antonio Neto

Senior Software Engineer at a consultancy with 11-50 employees

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“If you have a complex infrastructure, start using Pulumi Enterprise. If you have a very small team to use any of these infra IAC tools, then use Terraform Cloud. Otherwise, if you have a complex infrastructure or a big team, start using Pulumi Enterprise without any second thought. It is going to give you a very good return on investment, and you will feel very happy after using it. My overall review rating is not available..”

G Srivastava

Senior Cloud Engineer at a tech services company with 201-500 employees

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“Before we wrap up, I have additional thoughts about Pulumi. There is something I would mention that is not about Pulumi itself, but rather how you use it. For example, I discussed how you can connect different APIs. It is really important to do proper error handling. When you fetch things from APIs or any website, you need to perform proper error handling because if you do not do it, resources could get deleted on transient errors, such as network errors. If you fetch something and you expect a resource to be returned or you expect some information to be returned, you need to distinguish error codes. For example, not found means you can delete it, but if you have any kind of network error or an internal server error,

it should definitely break the execution of Pulumi and not delete things. This is a technique, but it is not related to Pulumi itself. It is about how you use things.

If you have complex infrastructure, you should definitely use Pulumi. However, for small setups, it might be an overkill for you. If you can stay with [Terraform](#), I see no reason why you should not.

I give this review a rating of nine..”

Zvonimir Burić

Platform Engineer at a consumer goods company with 501-1,000 employees

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“Pulumi Enterprise is a great tool for infrastructure as code deployments, and you can do it with any programming language, so it's quite useful. The documentation is quite detailed, and I definitely recommend it. One thing I've realized with Pulumi Enterprise is that you can also import resources that you've already got in AWS. If you created a resource on AWS manually, you can still import it with Pulumi Enterprise. The way you do it in Pulumi Enterprise is very easy.

“Pulumi Enterprise is a great tool, and I definitely recommend it. Pulumi Enterprise has very good videos introducing someone to it. If you look at the starting website for a first-timer getting into Pulumi Enterprise, it's very easy to set up. Getting someone started is the biggest thing, and Pulumi Enterprise has nailed it.

“Pulumi Enterprise's AI capabilities are quite good. It is quite secure, and I've used the AI feature to convert from Terraform to Pulumi Enterprise, and it gives great results. Pulumi Enterprise's AI capabilities are quite accurate and reliable, and I definitely trust Pulumi Enterprise's AI tooling and Pulumi Enterprise itself. I would give this review a rating of nine out of ten..”

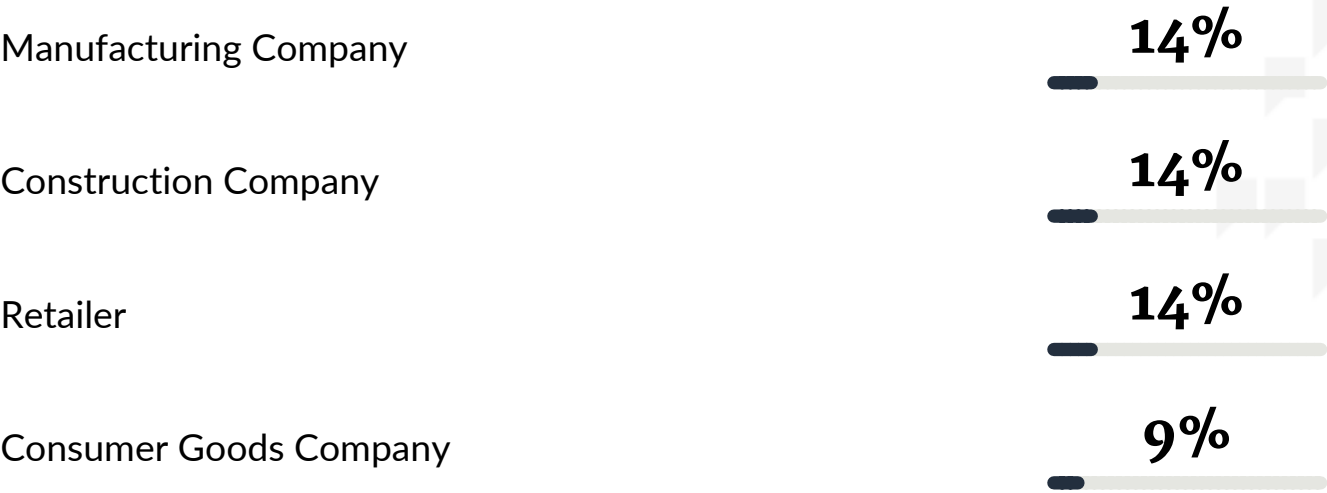
Shrenik Jobanputra

DevOps engineer at a mining and metals company with 10,001+ employees

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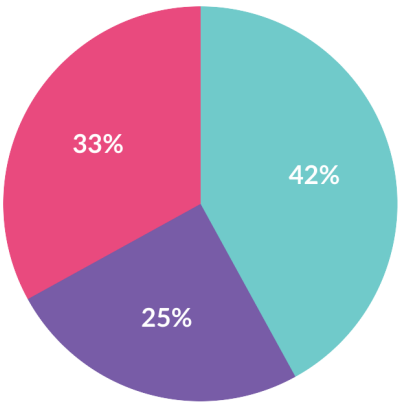
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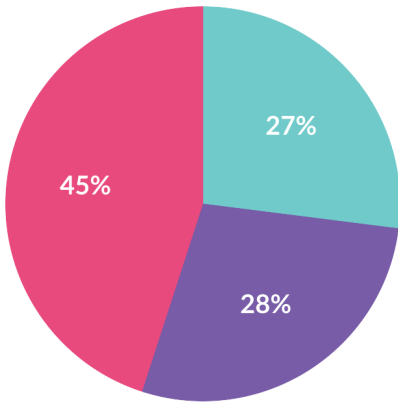
Company Size

by reviewers



Company Size

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Large Enterprise Midsize Enterprise Small Business

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