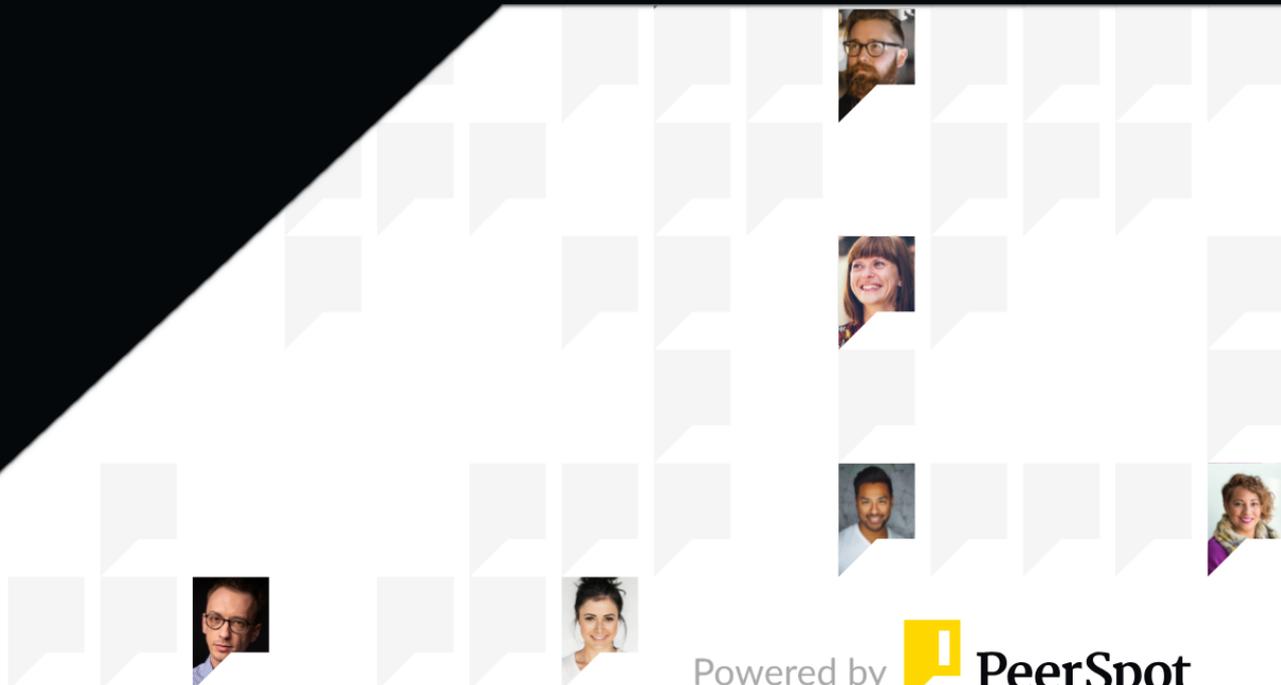


aws marketplace

HashiCorp Terraform

Reviews, tips, and advice from real users



Powered by  PeerSpot



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Product Recap



HashiCorp Terraform

HashiCorp Terraform Recap

HashiCorp Terraform is a powerful configuration management solution that aims to provide users with the ability to maximize the ease with which users can perform their configuration management operations. It makes it so that organizations can reliably configure and manage their infrastructure. Terraform is a tool that transforms every user into an administrator and project collaborator. Businesses that use it have at their command a solution that they can use for the entire lifecycle of their infrastructure.

HashiCorp Terraform Benefits

Some of the ways that organizations can benefit by choosing to deploy HashiCorp Terraform include:

- **Disaster recovery.** Terraform provides users with the ability to prevent a catastrophic loss of infrastructure from taking place. It stores the blueprint for the infrastructure in a centralized state file. This central file contains all of the data, resources, and metadata that make up an organization's infrastructure setup. If their infrastructure is damaged or destroyed this file can be used to reconstitute the infrastructure as it was before the damage was done. Users need never worry that they will lose their infrastructure.
- **Reduce overhead costs while offering maximum benefit.** Terraform is designed so that users can deploy it relatively cheaply while still gaining the maximum level of benefit. It offers users a diverse collection of out-of-the-box modules that users can use and reuse without having to purchase anything else. The solution is also agentless which means that it can be deployed without requiring users to download anything else to make it function.
- **Flexibility.** Terraform is highly flexible. It is a totally platform-agnostic solution. It can be used to manage architecture being run on both physical devices and virtual machines. Users who use cloud environments can utilize it just as effectively as those who are working with physical on-premises servers. This enables users to use whatever system they wish without being beholden to any kind of restrictions.
- **Remote operation.** Terraform can be remotely operated and managed from anywhere in the world. This empowers organizations to operate internationally without worrying that they will somehow be less effective than if they were working from their headquarters.
- **Self-service infrastructure.** Terraform can be operated by many members of an organization. Users can take on some of the responsibilities that would be handled by administrators. They can leverage the ServiceNow Integration to create workspaces, perform Terraform runs, and even order service items. Additionally, users can deploy Configuration Designer to leverage predefined modules in order to handle infrastructure requests themselves.

HashiCorp Terraform Features

- **Integration suite.** Terraform enables users to integrate their systems with it regardless of what kind of infrastructure system they are using. It leverages a wide variety of APIs to empower users to take their workflows and integrate them with Terraform's powerful management capabilities.
- **Automation tool.** Organizations can leverage Terraform to automate a vast variety of features. One example of a feature that administrators can automate is its system update application. Terraform makes it so that the solution itself is charged with applying updates and the like. This ensures that all operations are performed uniformly and in a manner that is consistent with the infrastructure's configuration. It also guarantees that the possibility of human error need not be considered.
- **Collaboration feature.** Terraform Cloud makes it simple for users to share their workflows with colleagues. This enables them to efficiently collaborate on whatever project they are working on. Teams that are authorized to work on a particular project will be able to securely cooperate and accomplish their tasks.
- **Notifications.** Terraform offers users the ability to set it so that they receive notifications. The nature of these notifications can vary based on a user's needs. They can range from notifications about the occurrence of particular events to progress reports concerning operations that the user is running.
- **Security suite.** Terraform comes with a suite of security capabilities that aim to keep users and their infrastructures from being harmed by digital threats. One such capability is a feature that auto-generates short-lived security credentials. This prevents access codes from being leaked or stolen by hackers. The credentials last for a specified period of time and are then deleted from the system. When new credentials are needed they will once again generate a set for the user in question.

Reviews from Real Users

HashiCorp Terraform is a highly effective solution that stands out when compared to many of its competitors. Two significant advantages it offers are its ability to help users create deployment pipelines that make the deployment process simple and its ability to recover infrastructure fully should something delete or damage it.

Patryk G., the chief technology officer at Translucent Computing Inc, writes, "Furthermore, Terraform enables the creation of a deployment pipeline using tools, such as Atlantis, which automates the process of scanning and deploying the code. This [streamlines the deployment process](#) and adds features, such as auditing, risk management, and security scanning to the deployment process. Terraform provides a more organized and secure way of managing infrastructure, compared to the traditional ad-hoc method."

Rakib M., the chief technology and strategy officer at the White House, says, "One of the other major features of terraform is its ability to act as a [Disaster Recovery tool](#). Since

terraform is an Infrastructure-As-A-Service tool, it can be used as part of the rest of the DR toolset to restore affected infrastructure to its original state without any variation.”

Valuable Features

Excerpts from real customer reviews on PeerSpot:



“The most valuable feature is predictability.”



Eugene Paden

CTO at a computer software company with 201-500 employees



“One of the major benefits of HashiCorp Terraform is that it is platform-agnostic because it supports multiple cloud platforms.”



Verified user

Cloud Architect at a tech vendor with 10,001+ employees



“The most valuable feature of Terraform is its ability to easily connect and manage various cloud services, such as AWS, Azure and GCP.”



Akshay Sarode

DevOps Engineer at SCL IT Technologies Pvt Ltd



“HashiCorp Terraform allows for controlling storage and infrastructure status.”



Govinda Raju

AWS Engineer at Unemployed

- ✔ “Terraform is that it is an open-source tool that gives us great flexibility. Using the Terraform HCL, we are not restricted to a single cloud provider. If my client asks me to deploy the same infrastructure on Azure or GCP, I can use the same code with minor modifications to account for the different providers. This means we are not limited to a specific cloud.”



UsmanAhmad

Principal DevOps Engineer at 10Pearls.

- ✔ “It is less time-consuming.”



Dima Dorofeyev

Senior DevOps/Build Engineer at Dataart

- ✔ “The most valuable feature of the solution stems from the modules it offers.”



RishabhSharma3

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

What users had to say about valuable features:

“What I like best is how easy the tool is to use. The HashiCorp Terraform language syntax is simple to learn. The Terraform.io registry feature is very useful - we can refer to our code and use pre-created modules posted there..”

Verified user

Azure DevOps Engineer at a consultancy with 10,001+ employees

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“Cross-platform and many third-party providers could work with another product to manage via Terraform. It's easy to create a deployment solution. You can use various CI/CD tools, such as GitHub Actions or GitLab CI. Configuring these tools is straightforward and highly customizable..”

Dima Dorofeyev

Senior DevOps/Build Engineer at Dataart

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“Variables are used to parameterize and customize configuration. We can use data to manage infrastructure.

Additionally, HashiCorp Terraform allows for controlling storage and infrastructure status. Terraform modules make it easier to manage complex infrastructure and code within an organization..”

Govinda Raju

AWS Engineer at Unemployed

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“The most valuable feature is predictability. When I need to put something, it is repeatable. I can deploy it in one environment, change the parameter, and it will work in another. If changes are needed, I track who did what because my Terraform scripts are version-controlled. This reduces guesswork and trial and error from the UI, replacing it with code, which enhances maintainability. In cloud environments, manual configurations can be forgotten or misunderstood if the original person leaves, but Terraform ensures documentation and consistent configurations..”

Eugene Paden

CTO at a computer software company with 201-500 employees

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“The most valuable feature of Terraform is its ability to easily connect and manage various cloud services, such as AWS, Azure and GCP. I appreciate that with just a few commands, Terraform can deploy tools into the server, which simplifies the process significantly.

Additionally, the support for YAML and Bash scripts allows for straightforward deployment. Terraform's infrastructure as a code tool facilitates deploying code on tools, and once configured with AWS and local Terraform systems, it can be reused multiple times without much issue..”

Akshay Sarode

DevOps Engineer at SCL IT Technologies Pvt Ltd

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“One of the major benefits of HashiCorp Terraform is that it is platform-agnostic because it supports multiple cloud platforms. This is the biggest advantage.

“The state file is one of the key features of HashiCorp Terraform that helps us because whenever there is a drift, it actually helps us identify those and reset the environment to the actual desired state.

“From our environment, we have enabled the health monitoring and drift detection features in HashiCorp Terraform. These have been really useful for our environment. It helps us where we do not have HashiCorp Terraform code for the environments and get that created, and whenever there is a manual change, we get to know that..”

Verified user

Cloud Architect at a tech vendor with 10,001+ employees

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Other Solutions Considered

“When comparing Terraform with other infrastructure automation tools, I often consider AWS CloudFormation. However, I prefer Terraform for its versatility and ease of use. The abundance of modules, well-documented features, and direct integration with AWS makes it my go-to choice. Its flexibility, clear documentation, and ability to handle diverse use cases, from managing directories on GitHub to updating Linux machines, contribute to its efficiency and simplicity..”

Omar Abdalhamid

Senior Devops Engineer at a financial services firm with 501-1,000 employees

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“I compare Terraform with Ansible. I work with multiple servers in Ansible in a FIFO method. You have a list of servers you apply one after the other. But you can work with those servers in parallel, even if one server fails to deploy. In Terraform, you must finish deployment on each account before going to the next one.

When I joined my current company, they were already using Terraform, and we had to create the environment on AWS manually. We are not using any IaC tools..”

Eryk Lawyd

Tech Lead DevSecOps at Letsbank

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“Terraform's philosophy is different, but Ansible is a similar product. It's not the same, though you can also deploy virtual machines, for example. However, I would not use Ansible because it does not have the same features as Terraform when it comes to history. Terraform pulls the API first to understand what you have from your schema and compare it with your existing infrastructure.

Ansible would not do that. It would just execute the code and deploy without knowing what it does..”

Marco Battistoni

IT Manager at a government with 1,001-5,000 employees

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“We used Pulumi for a project. We found that Terraform is easier to write code and works faster.

But it would be best if you learned Terraform HCL language. In the competitor solution Pulumi, languages like Go, Python, and other languages can be used. There is no need to learn a new language to use Pulumi.

For me, it's more complicated to write the same infrastructure. If you are a cloud administrator, you should use Terraform. But if you are a developer or want to deploy simple infrastructure with knowledge of the cloud, then you should use Pulumi. .”

MichalSmolik

CEO at Devopsgroup

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“From a configuration management perspective, we have used Jenkins and SCCM. My experience is limited to that, but some of my team members have used Ansible and others as well.

“The major benefit of HashiCorp Terraform in comparison to Jenkins and SCCM is that these are only configuration management tools, but HashiCorp Terraform is a language where you can deploy those, and you provide those providers for different cloud environments. This gives it a tactical advantage. It deals with having a seat, or it always helps having a lesser technical landscape. We don't have to have additional tools or any other feature to develop that IaC code as well..”

Verified user

Cloud Architect at a tech vendor with 10,001+ employees

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“From inside the cloud services, I am working on EKS Kubernetes, ECS Elastic Containerized Services, and Elasticsearch, which is now known as OpenSearch. I am working on EKS, Kubernetes, ECS, Elastic Containerized Services, as well as Elastic Search, which is now known as Open Search, and Redis ElastiCache, which is a component of MSK Kafka.

These are the tools I am using. Jenkins is used for the CI process, as well as GitHub Action is used for the CI process.

As previously mentioned for alerts, we use Opsgenie and Grafana for the dashboards and premises.

Many third-party services, such as NGINX, are used in Kubernetes. We use Cube Metrics for these kinds of activities, such as metrics scraping.

I have worked with Ansible as well, however, if you asked me to compare the two, I would say Terraform is superior to Ansible. I am not going to get into specifics.

Terraform, is self-explanatory. It knows how to run, if we want to build some infrastructure, it understands where to start, how to start, what the dependencies are, and so on.

We must occasionally inform Terraform of some dependencies, which is fine. Terraform, on the other hand, already understands the sequence in which it must execute certain infrastructure to build up. Those are the advantages over Ansible.

The disadvantage of Terraform is that, once again, we must use functions to build up variables or something similar, but Terraform's dry notion is not very good.

When I say dry, I mean that you should not repeat the bad code. Other references are being used to handle this. That is something I would want to suggest..”

Verified user

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Senior Build And Release Engineer at a tech services company with 1,001-5,000 employees

ROI

Real user quotes about their ROI:

“We have not calculated the measurable benefits recently from using HashiCorp Terraform. On a high level, I would say it has improved our overall environment, speed, and excellence by approximately 20%..”

Verified user

Cloud Architect at a tech vendor with 10,001+ employees

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Use Case

“I used HashiCorp Terraform primarily as infrastructure as code. It allows you to create, modify, and delete infrastructure resources. This includes tasks such as manually creating instances in the console or automating infrastructure deployment..”

Govinda Raju

AWS Engineer at Unemployed

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“The primary use case for Terraform is the deployment of infrastructure as a code, creating pipelines, and deploying scripts for services like VPC, EC2, and other AWS services. I also use Terraform for managing multi-cloud environments, easily connecting with services like AWS, Azure, and GCP..”

Akshay Sarode

DevOps Engineer at SCL IT Technologies Pvt Ltd

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“We use HashiCorp Terraform for Infrastructure as Code. It automates the deployment of infrastructure within the Azure platform. Terraform can manage almost all aspects of infrastructure provisioning. If there are tasks that Terraform cannot perform directly, you can use the Azure CLI or other tools and call them from within Terraform scripts..”

Tony-Kerr

IT Consultant at a tech vendor with 1-10 employees

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“HashiCorp Terraform is primarily used to manage infrastructure. It is responsible for creating and managing infrastructure components. For example, when we initially designed the infrastructure for this project, we started by designing the VPC. We decided to use a specific region-based VPC. We specified the number of public and private subnets, as well as setting up Internet gateways and NAT gateways, all using Terraform. Once the infrastructure was set up, we deployed our resources, such as ECS containers, ECS tasks, and RDS databases, in private subnets, all properly managed by Terraform.

However, we use GitHub Actions for CI/CD pipeline purposes. While Terraform handles the infrastructure management, GitHub Actions manages the CI/CD pipeline for our ECS clusters. In my previous project, we used Jenkins, but in this project, we use GitHub Actions for deployment, testing, and other pipeline tasks..”

UsmanAhmad

Principal DevOps Engineer at 10Pearls.

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“We primarily use HashiCorp Terraform for our infrastructure deployments and cloud deployments. As a cloud architect and infra DevOps architect, we use HashiCorp Terraform to deploy our code, builds, and set up CI/CD pipelines. We create Terraform code and deploy it through Terraform Enterprise.

“Regarding state management and orchestration capabilities of HashiCorp Terraform's impact on our workflows, we had two different environments. Initially, we used Jenkins for our CI/CD pipelines. Because we primarily work on Azure, we use remote state files for Azure deployments. Jenkins runs the HashiCorp Terraform code, and then the state file gets saved in our Azure storage as a remote location. Whenever we require that state file, we can retrieve it from there.

“At a later stage, we enhanced the environment by setting up Terraform Enterprise in our environment. Currently, we have it within our environment. We set up Terraform Enterprise with HashiCorp's license. We create modules from HashiCorp Terraform using the Azure ARM provider, and then we set up those modules to apply Azure best practices. We provide this to the development team and other teams so they can reuse these modules and deploy secure codes. We also manage upgrades and the complete lifecycle of TFE, and we provide these services to our other teams..”

Verified user

Cloud Architect at a tech vendor with 10,001+ employees

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“I use it to deploy our Kubernetes clusters and Boomi as well. I can run Boomi by itself and not worry about Terraform and Kubernetes, and that's okay.

However, my use case requires me to run it in a cluster environment to scale up and scale down accordingly and manage costs. This is why I chose Kubernetes. Although it's possible to manually roll it out, I have security requirements to consider for a secure environment. To make it repeatable, I use Bicep or Terraform, as I'm mostly running in Azure.

I decided on Terraform to manage deployments across multiple environments. This includes a dev environment, a QA environment, and now a production environment. I test and then run Terraform to deploy these environments. In AI, it's more about setting up your environment.

I develop AI-based products and use Terraform to create a consistent and secure environment in Azure. Once deployed, I get a security score from Azure and receive recommendations for improvements. If a resource is noncompliant under SOC 2, type one or two, ISO, or HIPAA, I make the changes in Terraform, redeploy, and observe score improvements. Terraform aids in ensuring my deployments are correctly configured across environments..”

Eugene Paden

CTO at a computer software company with 201-500 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 initial setup is straightforward, using YAML and Bash scripts for creating infrastructure, which can then be easily deployed using tools like Visual Studio Code..”

Akshay Sarode

DevOps Engineer at SCL IT Technologies Pvt Ltd

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“The setup is straightforward, but mastering it may take a day or two. Maintenance requires significant expertise. The challenge lies in understanding the environments being created, not Terraform itself..”

Eugene Paden

CTO at a computer software company with 201-500 employees

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“The initial setup of HashiCorp Terraform was easy. I was involved in setting it up in my personal usage, which included installation commands on Linux, updating the system, and ensuring the correct version of Terraform was installed..”

Govinda Raju

AWS Engineer at Unemployed

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“When we did the POC and wanted to set up our production environment, it took us around three to four months. Now that we have set up that pipeline for the upgrades, it doesn't take us that long. For the production deployment, currently, it takes us around two weeks, excluding the testing, the stage deployment, development, and deployment..”

Verified user

Cloud Architect at a tech vendor with 10,001+ employees

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“Installing Terraform is straightforward on any Linux or Windows-based operating system. However, managing different versions of Terraform can present some challenges. If you're using an older version and need to upgrade to the latest version, you might encounter some issues, such as syntax errors or changes in required formatting. It has built-in modules available in the Terraform documentation; managing upgrades and ensuring compatibility with your existing code can be more complex. Creating custom modules requires some initial effort, but they can be reused as needed..”

UsmanAhmad

Principal DevOps Engineer at 10Pearls.

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“The integration is straightforward. Simply download the binary, test it accordingly, and authenticate via Azure CLI. I've used the standard binary because it's free and widely adopted for technical infrastructure as code.

The initial setup is very straightforward. I set up a Python environment, brought in Terraform, and utilized it with YAML. Everything has to be securely done. You have to set up some pieces on the backend. It's straightforward to deploy: get the binary, set it up on the build agent, and configure the settings the way you need..”

Tony-Kerr

IT Consultant at a tech vendor with 1-10 employees

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Customer Service and Support

“Whenever we face any issues, we escalate it to HashiCorp technical support, and we get that support. We have regular interaction with them. I would rate the HashiCorp technical support an eight on a scale of one to ten, where ten is the best..”

Verified user

Cloud Architect at a tech vendor with 10,001+ employees

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“I have not faced any significant issues that required me to contact support, however, they provide mail IDs, a portal, and contact numbers for assistance. I would rate it nine out of ten..”

Akshay Sarode

DevOps Engineer at SCL IT Technologies Pvt Ltd

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“My company employs seniors with extensive experience for complicated issues, but I have not escalated any questions or queries about HashiCorp Terraform directly. Therefore, I cannot comment directly on the customer service..”

Govinda Raju

AWS Engineer at Unemployed

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“Terraform is an open-source product, so we rely on documentation. I rate the Terraform documentation five out of 10. It should provide more examples about the way you should write some resources or models..”

Stephen Adeniyi

Kubernetes Consultant, Cloud Architect at a computer software company with 51-200 employees

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“HashiCorp provides very good documentation so we haven't needed to contact technical support. They also have GitHub repository against each of those tutorials, so we can actually clone and tweak those according to our needs. There's also a large open-source community out there and a lot of blogs that complement the documentation. .”

Rakib Mahmood

Chief Technology and Strategy Officer at The White House

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“Their customer support is the worst. I opened a ticket, and I never got an answer, and the community does not listen to the most common issues. But I understand why I was left out because I asked a hugely specific question about a little bug in the code. My experience was not the best, but I no longer need to ask them because I make my own workarounds. Besides, we don't face issues that require us to talk to support.

The customer should receive an answer regardless of the question. Even answers like, "This isn't a feature," "We can't do this right now," or "This isn't the roadmap.".”

Eryk Lawyd

Tech Lead DevSecOps at Letsbank

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Other Advice

“I would recommend HashiCorp Terraform to others due to its utility in creating multiple instances quickly. In cloud environments, it saves time in instance creation compared to manual methods.

I rate Terraform a six out of ten..”

Govinda Raju

AWS Engineer at Unemployed

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“I am using the free version. The paid version is necessary when you run it and manage it in the environment, however, I only use Terraform runtimes. The documentation is excellent, and understanding how to read it is crucial.

Once I understand the different concepts of Terraform, it becomes straightforward, allowing for further capabilities. A major challenge was applying Terraform to existing resources, yet now the new import method is much improved.

My product rating is eight out of ten..”

Eugene Paden

CTO at a computer software company with 201-500 employees

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“I can provide feedback regarding my experience working with HashiCorp

Terraform. We haven't found any major challenges with the integration of HashiCorp Terraform. Frankly speaking, we haven't explored it completely, but for our requirements, it has been working fine.

“I have not had any AI-driven projects or AI-driven tasks, nor have I utilized any AI within HashiCorp Terraform yet. I might not be the right person regarding the HashiCorp Terraform licensing part because I haven't been involved from the costing perspective.

“Based on my experience, I would recommend HashiCorp Terraform to others, majorly because of the advantages of being platform-agnostic and all those other features. My overall rating for HashiCorp Terraform is eight out of ten..”

Verified user

Cloud Architect at a tech vendor with 10,001+ employees

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“I've been working with HashiCorp Terraform recently and have deployed environments with it. OpenAI has released GPT Terraform, which Microsoft is heavily investing in. Generic modules are available for deployment. Azure AI Portal and AI Studio are useful tools for creating models. It's straightforward to perform service training and update models for input-output data.

HashiCorp Terraform has made handling modules and variables more secure. They've integrated key vaults to ensure secrets and backend storage are protected. Accessing the backend storage could potentially leak sensitive information if not properly encrypted.

I'm using [GitHub Actions](#) and [Azure DevOps](#). Additionally, I'm exploring an older system within the team that will be set up to support.

If the setup is built on old infrastructure, the backend of Terraform works and stores. Vagrant works differently where it doesn't need to check with the infrastructure to see what's there or updated. You get an API call for deployment.

Overall, I rate the solution as eight out of ten..”

Tony-Kerr

IT Consultant at a tech vendor with 1-10 employees

[Read full review](#) 

“A scenario where the product improved our company's deployment process stems from an incident where I was working for one of our organization's clients where we had to set up a complete application offering for them. There were no disaster recovery options available due to cost-related issues. Whenever there is any disaster, my company pops up a particular DR environment, after which the application can go live from such an environment. My company lost all the resources due to the lack of a DR environment. Using HashiCorp Terraform, my company created state files in which we changed the reasons and created a

complete infrastructure in a single go. With the help of HashiCorp Terraform, it took my company only 13 or 14 minutes to ensure that the application went live from our end.

The product's state file management feature greatly enhances our company's infrastructure. In our company, it is great that the tool allows us to manage the state file over the cloud or any bucket offered under Azure or Amazon S3's services, and the fact that we can directly fetch the data with the ID from the state file, making it an area that becomes easy to manage for users. For reusability, it is easy.

I recommend the product to those who plan to use it. Whenever people want to create or publish a module, we need to specify the version for HashiCorp Terraform and providers. Whenever someone wants to use a modular after a few years since it was created, such a person will be able to easily understand the version of HashiCorp Terraform to be deployed since searching for the version can be time-consuming.

I rate the overall tool a nine out of ten..”

RishabhSharma3

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

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“You must use Terraform when your client plans to scale the infrastructure or replicate it in another region in the future. Terraform is beneficial because once you write the code, it becomes easy to create similar resources in other availability zones or regions.

For small web applications with limited resources, Terraform might not be necessary. However, if your client anticipates major changes or deployments and is thinking about scaling the infrastructure, Terraform is a must. It makes management easier.

Another significant benefit of Terraform or any other IaC tool is that organizations are not reliant on individual resources. For instance, if you lead a DevOps department, you won't depend on a specific DevOps engineer to create the infrastructure. Managing resources through code or cloud automation simplifies scaling the infrastructure without deep knowledge of the underlying code.

For example, if you need to create another EC2 instance for your application, applying small changes to your Terraform code is straightforward. Since your infrastructure code is stored in version control systems like GitHub or Bitbucket, it isn't dependent on individual systems. You can pull the code from GitHub, make changes, and apply them regardless of where you are, which adds to the convenience.

I prefer Terraform because of the documentation and open-source community.

As someone who provides training on various tools, including Terraform, I've observed that many students lack experience with it. One of the main prerequisites for learning Terraform is knowledge of AWS or any other cloud platform on which you want to create your resources. If you know how to create resources manually, it will be much easier to convert them into IaC.

Overall, I rate the solution a seven out of ten..”

UsmanAhmad

Principal DevOps Engineer at 10Pearls.

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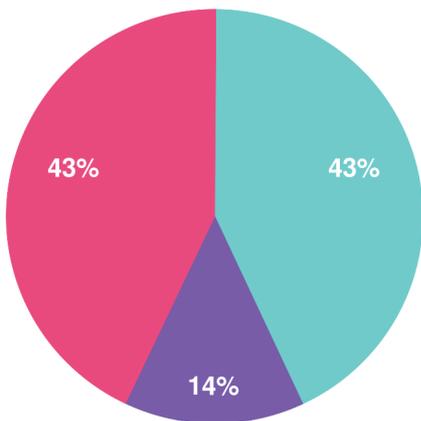
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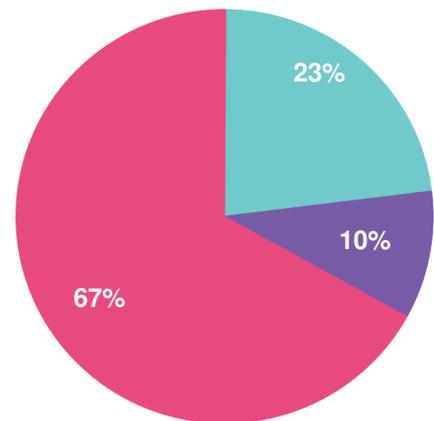
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