HashiCorp - Terraform.docx | 9/27/22

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| **HashiCorp - Terraform** [Wiki](https://en.wikipedia.org/wiki/HashiCorp)  101 2nd St, San Francisco, California 94105 (est. 2012) www.hashicorp.com |  |
| [2,379 employees](https://www.linkedin.com/search/results/people/?currentCompany=%5B%222830763%22%5D&origin=COMPANY_PAGE_CANNED_SEARCH&sid=A%3B%2C) | At HashiCorp, we believe infrastructure enables innovation, and we are helping organizations to operate that infrastructure in the cloud. Our suite of multi-cloud infrastructure automation products — all with open-source projects at their core — underpin the most important applications for the largest enterprises in the world. As part of the once-in-a-generation shift to the cloud, organizations of all sizes, from well-known brands to ambitious start-ups, rely on our solutions to provision, secure, connect, and run their business-critical applications so they can deliver essential services, communications tools, and entertainment platforms worldwide. | HashiCorp is a software company with a freemium business model based in San Francisco, California. HashiCorp provides open-source tools and commercial products that enable developers, operators and security professionals to provision, secure, run and connect cloud-computing infrastructure. It was founded in 2012 by Mitchell **Hashi**moto and Armon Dadgar. | |
| [**HashiCorp Cloud Engineer Certifications**](https://www.hashicorp.com/certification) | |
| Graphical user interface, application  Description automatically generated with medium confidence$70.50, Online proctored, 1-hour  [**Terraform Associate**](https://www.hashicorp.com/certification/terraform-associate)  **HashiCorp Infrastructure Automation Certification**  Cloud engineers can use the Terraform Associate certification to verify their basic infrastructure automation skills.  **Certified: Terraform Associate (002)**  The Terraform Associate certification is for Cloud Engineers specializing in operations, IT, or development who know the basic concepts and skills associated with open source HashiCorp Terraform. Candidates will be best prepared for this exam if they have professional experience using Terraform in production, but performing the exam objectives in a personal demo environment may also be sufficient. This person understands which enterprise features exist and what can and cannot be done using the open-source offering.  **Prerequisites** | Basic terminal skills | Basic understanding of on premises and cloud architecture | |
| Graphical user interface, application  Description automatically generated with medium confidence$70.50, Online proctored, 1-hour  [**Vault Associate**](https://www.hashicorp.com/certification/vault-associate)  **HashiCorp Security Automation Certification**  Cloud engineers can use the Vault Associate certification exam from HashiCorp to verify their basic security automation skills.  **Certified: Vault Associate (002)**  The Vault Associate certification is for Cloud Engineers specializing in security, development, or operations who know the basic concepts, skills, and use cases associated with open source HashiCorp Vault. Candidates will be best prepared for this exam if they have professional experience using Vault in production, but performing the exam objectives in a personal demo environment may also be sufficient. This person understands what enterprise features exist and what can and cannot be done using the open-source \offering.  **Prerequisites** | Basic terminal skills | Basic understanding of on premise or cloud architecture | Basic level of security understanding | |
| Graphical user interface, application  Description automatically generated with medium confidence$70.50, Online proctored, 1-hour  [**Consul Associate**](https://www.hashicorp.com/certification/consul-associate)  **HashiCorp Networking Automation Certification**  Cloud engineers can use the Consul Associate certification exam from HashiCorp to verify their basic networking automation skills.  **HashiCorp Certified: Consul Associate (002)**  The Consul Associate Certification is for Site Reliability Engineers, Solutions Architects, DevOps professionals, or other Cloud Engineers who know the basic concepts and skills to build, secure, and maintain open source HashiCorp Consul. Candidates will be best prepared for this exam if they have professional experience using Consul in production, but performing the exam objectives in a personal demo environment may also be sufficient. This person understands what enterprise features exist and what can and cannot be done using the open source offering.  **Prerequisites** | Containerization knowledge | Basic terminal skills | Networking skills including load balancing and distributed systems | Understand the purpose of ACLs | Experience with TLS certificate lifecycle | |
| A picture containing application  Description automatically generated$295, Online proctored, 4-hours, Includes free retake  [**Vault Operations Professional**](https://www.hashicorp.com/certification/vault-operations-professional)  **HashiCorp Professional Security Automation Certification**  Cloud engineers can use the Vault Operations Professional certification exam from HashiCorp to verify their specialized security automation skills.  The Vault Operations Professional exam is for Cloud Engineers focused on deploying, configuring, managing, and monitoring HashiCorp Vault. Well-qualified candidates hold the Vault Associate Certification (or equivalent knowledge), have experience operating Vault in production, and can evaluate Vault Enterprise functionality and use cases. Certification holders have proven they have the skills, knowledge, and competency to perform the Vault operational tasks listed in the objectives.  **Prerequisites** | We strongly recommend passing the associate-level Vault exam before taking the professional-level exam. Practitioners who are already experienced with Vault operations in a production environment—and understand the concepts covered in the associate exam— may be able to successfully pass the professional-level exam. | HashiCorp Certified: Vault Associate Certification (recommended) | Linux skills such as list and edit files via command terminal | Understanding of IP networking | Experience with Public Key Infrastructure (PKI), including PGP and TLS | Information security fundamentals such as network security and RBAC | Understand the concepts and functionality of infrastructure running in containers including starting and stopping services, and reading logs | |
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| ****exam study materials**** [HashiCorp Certified Terraform Associate study materials](https://www.hashicorp.com/certification/terraform-associate)  [HashiCorp Certified Vault Associate study materials](https://learn.hashicorp.com/tutorials/vault/associate-study)  [HashiCorp Certified Consul Associate study materials](https://learn.hashicorp.com/collections/consul/certification)  [HashiCorp Certified Vault Professional Operations study materials](https://www.hashicorp.com/certification/vault-operations-professional) | |
| **Candidate Support: (877) 714-5686****PSI Technical Support USA: (844) 267-1017****PSI Technical Support non-USA (617) 564-9052** | |
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| **Terraform** – open-source by HashiCorp initial release 7/’14 | [Logo  Description automatically generated](https://en.wikipedia.org/wiki/Terraform_(software)) |
| Terraform is an open-source, infrastructure as code, software tool created by HashiCorp. Users define and provide data center infrastructure using a declarative configuration language known as HashiCorp Configuration Language (HCL), or optionally JSON | Terraform manages external resources (such as public cloud infrastructure, private cloud infrastructure, network appliances, software as a service, and platform as a service) with "providers". HashiCorp maintains an extensive list of official providers, and can also integrate with community-developed providers. Users can interact with Terraform providers by declaring resources or by calling data sources. Rather than using imperative commands to provision resources, Terraform uses declarative configuration to describe the desired final state. Once a user invokes Terraform on a given resource, Terraform will perform CRUD actions on the user's behalf to accomplish the desired state. The infrastructure as code can be written as modules, promoting reusability and maintainability. Terraform supports a number of cloud infrastructure providers such as Amazon Web Services, Microsoft Azure, IBM Cloud, Serverspace, Google Cloud Platform, DigitalOcean, Oracle Cloud Infrastructure, Yandex.Cloud, VMware vSphere, and OpenStack. | |

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**Authors seeking continuous improvement through your negative, positive and commentary feedback:**

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