DevOpsSchool

Course curriculum · November 2026

LEVEL 04 OF 04 · ADVANCED

Hashicorp Certified Terraform Vault Consul Nomad Vagrant Packer Advanced Training

Run the HashiCorp stack in production with HA, security hardening, governance and DR, and prepare for HashiCorp associate exams.

LIVE ONLINE **Max 8-10 hours**	CORPORATE (DAY-WISE) **5 days · Days 1-5**	SELF-PACED VIDEO **1-year LMS access**
BATCH SIZE **Max 10 learners**	NEXT BATCHES **1st of every month · weekends: first Saturday**	CERTIFICATE **Verifiable certificate of completion**

Foundation	Essential	Intermediate	Advanced
1 day · Included	2 days · Included	3 days · Included	5 days · This curriculum

INSIDE THIS CURRICULUM

What you will achieve	Outcomes and level focus
Who should attend	Audience and prerequisites
Agenda	47 topics · Foundation to Advanced
Hands-on labs	4 labs
Formats and fees	Live, 1:1, self-paced, corporate
Trainer and reviews	Rajesh Kumar
Enrolment	Batches, payment, contacts

WHY DEVOPSSCHOOL

- Rated 4.6 on Google
- 1,500+ verifiable certificates issued in the public registry
- Trainer Rajesh Kumar: 20 years in industry
- Small batches: max 10 learners, every session recorded

Course page: www.devopsschool.com/courses/hashicorp/hashicorp-certified-terraform-vault-consul-nomad-vagrant-packer-advance-training.html

Talk to us: WhatsApp +91 99057 40781 · +1 (469) 756-6329 · contact@DevOpsSchool.com · reply within 1 hour

OUTCOMES

What you will achieve

By the end of the Hashicorp Certified Terraform Vault Consul Nomad Vagrant Packer course path, you will be able to:

1

Provision infrastructure as code

Use Terraform, Packer and Vagrant to build images, environments and cloud infrastructure repeatably.

2

Secure and connect services

Manage secrets with Vault and service discovery and mesh networking with Consul.

3

Run a HashiCorp platform

Schedule workloads with Nomad and operate the full stack with HA, governance and exam-ready knowledge.

WHAT THE ADVANCED LEVEL ADDS

Production operations, security, scale and exam readiness

Hands-on: Production HashiCorp platform capstone. Build golden images with Packer, provision HA Vault, Consul and Nomad clusters with Terraform under policy checks and deploy a secured service end to end.

WHO SHOULD ATTEND

- Experienced Hashicorp Certified Terraform Vault Consul Nomad Vagrant Packer practitioners responsible for quality, security and scale.
- Senior engineers, architects and leads who design and troubleshoot Hashicorp Certified Terraform Vault Consul Nomad Vagrant Packer solutions.
- Teams making Hashicorp Certified Terraform Vault Consul Nomad Vagrant Packer an organisation-wide standard.

BEFORE YOU START

- The Intermediate level, or equivalent hands-on experience.
- You can already: Connect services with Consul, schedule workloads with Nomad and integrate Terraform, Vault, Consul and Nomad into one platform.
- Basic computer skills and a laptop with a stable internet connection for the live sessions and labs.
- This curriculum includes every earlier level, so it is complete on its own.

Preparing for the exam? This course follows the official exam objectives and includes mock exams. DevOpsSchool is an independent training provider and is not affiliated with HashiCorp.

AGENDA · FOUNDATION TO ADVANCED

Hashicorp Certified Terraform Vault Consul Nomad Vagrant Packer Advanced Training agenda

47 topics. Each level builds on the one before it, so this curriculum lists every earlier level in full. Days are for corporate (day-wise) delivery; live online batches cover the same agenda in max 8-10 hours.

DAY 1 — Foundation: HashiCorp stack overview, Vagrant, Packer and Terraform basics

Included from Foundation

1. HashiCorp stack overview: Terraform, Vault, Consul, Nomad, Vagrant and Packer and where each fits
2. Licensing and editions: community editions, HCP managed services and the BSL licence change
3. Vagrant basics: Vagrantfile, boxes, providers (VirtualBox, Hyper-V, Docker) and vagrant up, ssh, destroy
4. Vagrant provisioning: shell and Ansible provisioners, synced folders and private networks
5. Multi-machine Vagrant: defining several VMs in one Vagrantfile for local cluster labs
6. Packer basics: HCL2 builds, sources, builders and provisioners
7. Building images with Packer: packer init, validate and build for AWS AMIs, Azure images and Docker
8. Terraform concepts: infrastructure as code, providers, resources, state and the plan and apply workflow
9. Installing Terraform: CLI setup, terraform init, fmt, validate, plan, apply and destroy
10. HCL basics: variables, outputs, locals, data sources and expressions
11. Terraform state basics: local state, terraform.tfstate and why remote state matters

DAY 2 — Essential: Terraform workflows, modules and Vault fundamentals

Included from Essential

12. Terraform modules: inputs, outputs, module sources, versioning and the public registry
13. Remote state and backends: S3, azurerm, GCS and HCP Terraform with locking
14. State operations: terraform state list, mv, rm, import blocks and moved blocks
15. Meta-arguments: count, for_each, depends_on, lifecycle and provider aliases
16. HCP Terraform workspaces: VCS-driven runs, variables and team access
17. Vault architecture: storage backends, seal and unseal, auto-unseal and the dev server
18. Vault secrets engines: KV v2, database dynamic credentials, AWS and PKI
19. Vault auth methods: tokens, userpass, AppRole, Kubernetes, OIDC and cloud auth
20. Vault policies: HCL policies, capabilities, paths and least privilege
21. Vault tokens and leases: TTLs, renewals, revocation and response wrapping
22. Vault CLI, UI and API: vault login, read, write and kv commands

DAY 3 — Intermediate: Consul service networking, Nomad scheduling and integrations

Included from Intermediate

23. Consul architecture: servers, clients, datacenters, gossip and Raft consensus
24. Service discovery: service registration, health checks and DNS and HTTP interfaces
25. Consul KV store: configuration storage, watches and rendering config files from KV data
26. Consul service mesh: sidecar proxies with Envoy, intentions and mTLS
27. Consul ACLs: tokens, policies, roles and bootstrapping ACLs
28. Nomad architecture: servers, clients, regions, datacenters and the scheduler

29. Nomad jobs: job specification, groups, tasks, drivers (Docker, exec, java) and job types
30. Nomad operations: deployments, rolling updates, canaries, affinities and constraints
31. Nomad with Consul and Vault: service registration, workload identity and secrets in tasks
32. Terraform testing and quality: terraform test, validation rules, checks and tflint
33. Terraform in CI/CD: plan on pull request, policy checks and automated apply
34. Vault in Kubernetes: Vault Agent injector, Vault Secrets Operator and CSI provider

DAYS 4-5 **Advanced: Production operations, security, scale and exam readiness** **New at this level**

35. Vault high availability: Integrated Storage (Raft), performance standby nodes and autopilot
36. Vault operations: audit devices, snapshots, upgrades, namespaces and replication in Enterprise
37. Vault security: seal wrap, transit encryption as a service, PKI hierarchies and secret rotation
38. Consul at scale: multi-datacenter federation, cluster peering, mesh gateways and API gateway
39. Nomad production: ACLs, mTLS, autoscaling, multi-region federation and node pools
40. Terraform at scale: workspace and project structure, private registry and module governance
41. Policy as code: Sentinel and OPA policies for Terraform runs
42. Terraform state and drift: drift detection, state recovery and large-scale refactoring
43. Packer and Vagrant pipelines: image factories with HCP Packer channels and golden image lifecycles
44. Observability: telemetry from Vault, Consul and Nomad into Prometheus and Grafana
45. Disaster recovery: backups and restores for Vault, Consul and Nomad and Terraform state
46. Exam readiness: objectives for the Terraform, Vault and Consul associate exams and practice scenarios
47. Capstone: an end-to-end platform built with all six HashiCorp tools from image to running service

PRACTICE

Hands-on labs

You build these yourself during the course, guided by the trainer.

FOUNDATION

Local lab to cloud image

Build a multi-VM lab with Vagrant, bake a hardened image with Packer and deploy it to a cloud account with a first Terraform configuration.

ESSENTIAL

Modular Terraform with Vault secrets

Refactor Terraform into versioned modules with remote state, then issue dynamic database credentials from Vault to an application through AppRole.

INTERMEDIATE

Build a Nomad and Consul platform

Provision a Consul and Nomad cluster with Terraform, run a service mesh application on Nomad and inject secrets from Vault into the tasks.

ADVANCED

Production HashiCorp platform capstone

Build golden images with Packer, provision HA Vault, Consul and Nomad clusters with Terraform under policy checks and deploy a secured service end to end.

HOW YOU CAN LEARN

Formats and fees

The same agenda in four formats. Fees are in Indian rupees as of November 2026; the course page shows them in your currency.

FORMAT	DURATION	WHAT YOU GET	FEE
Live & interactive (online)	Max 8-10 hours	Instructor-led public batch of max 10 learners with demos, labs, Q&A and assignment review. Weekday batches start on the 1st of every month, weekend batches on the first Saturday of every month.	**INR 34,999**
1:1 live training (online)	Max 8-10 hours, one-to-one	The same agenda, taught one-to-one by the trainer. Starts immediately, without waiting for the next batch; sessions planned around your working hours, at your pace.	**INR 99,999**
Self-paced video	1-year LMS access	All four Hashicorp Certified Terraform Vault Consul Nomad Vagrant Packer levels, plus 20+ more courses and 50+ tools, at your own pace.	**INR 833/month** billed yearly at INR 9,996
Corporate (day-wise)	5 days for this level	A private batch for your team, on demand. Foundation 1 day, Essential 2, Intermediate 3, Advanced 5 (cumulative).	**Quote on request**

ASSESSMENT AND CERTIFICATE

Your progress is checked through hands-on labs and assignments at every level. On completion you receive a DevOpsSchool certificate of completion with a unique credential ID that anyone can verify at devopsschool.com/certificates.

INCLUDED WITH EVERY LIVE BATCH

- Every live session is recorded and stays in your LMS for a year.
- Can't attend your batch? Move to next month's batch.
- Free demo class before you pay.
- Free 10-15 minute call with an advisor or the trainer to check the course fits you.

YOUR TRAINER

Learn from Rajesh Kumar

Principal Architect, trainer and mentor in DevOps, SRE, DevSecOps and platform engineering, with 20 years across 8+ software MNCs, including Staff DevOps/SRE Engineer for a leading Japanese mobile-payment platform and Principal DevOps Architect and Manager in Europe.

Profile: www.rajeshkumar.xyz · Videos: youtube.com/@TheDevOpsSchool

20 years in industry	**200+** corporate trainings
10,000+ engineers mentored	**70+** organisations coached

REVIEWS

What learners say

Rated 4.6 on Google · more reviews at devopsschool.com/testimonials and in our video testimonials.

> “Rajesh is very good trainer. Rajesh was able to resolve our queries and question effectively. We really liked the hands-on examples covered during this training program.”
>
> Indrayani, India

> “The training was very useful and interactive. Rajesh helped develop the confidence of all.”
>
> Abhinav Gupta, Pune

START YOUR HASHICORP CERTIFIED TERRAFORM VAULT CONSUL NOMAD VAGRANT PACKER TRAINING

Join the next batch

Weekday batches start on the 1st of every month and weekend batches on the first Saturday of every month, with max 10 learners each. 1:1 training can start immediately; corporate batches run on demand. We reply within 1 hour.

Pay by UPI, credit and debit cards, net banking or PayPal. Before you pay, read our refund policy. All levels of this course: www.devopsschool.com/courses/hashicorp/

ENROL OR RESERVE A SEAT
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