

Vault Self-Managed Lunch and Learn - HCDiag



O1 HCDIAG

HCDiag

What is it?



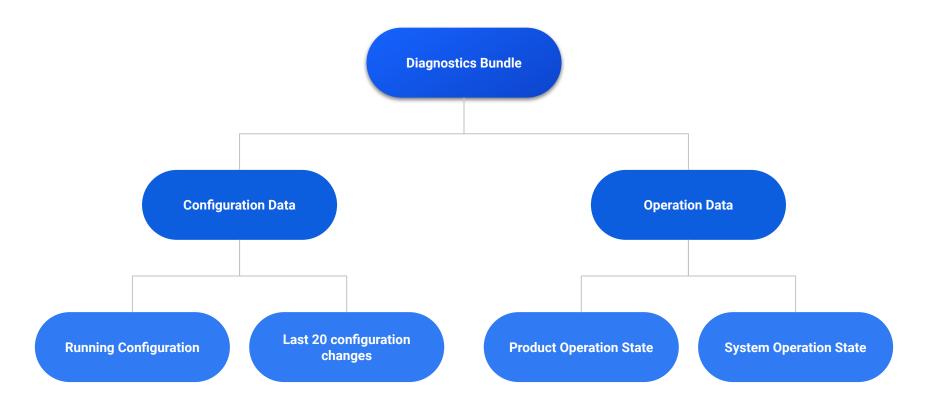
HCDiag is a CLI based tool that can be used to simplify the collection of data during the troubleshooting process. When HCDiag is run it will collect system and product information, once complete it will create a compressed bundle of all the data captured.

Supported Products:

- Vault
- Terraform
- Consul
- Nomad

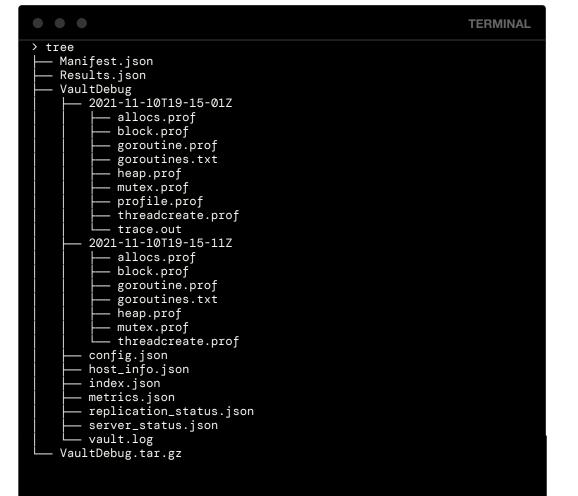
Bundle Contents







Bundle Contents



HCDiag Usage



```
TERMINAL
> hcdiag -h
Usage of hc-bundler:
 -all
       Run all available product diagnostics
  -config string
       Path to HCL configuration file
  -consul
       Run Consul diagnostics
  -dest string
       Shorthand for -destination (default ".")
  -destination string
       Path to the directory the bundle should be written in (default ".")
  -dryrun
       Performing a dry run will display all commands without executing them
 -include-since 72h
       Time range to include files, counting back from now. Takes a 'go-formatted' duration, usage examples:
72h, `25m`, `45s`, `120h1m90s`
 -includes value
       files or directories to include (comma-separated, file-*-globbing available if
'wrapped-*-in-single-quotes')
       e.g. '/var/log/consul-*,/var/log/nomad-*'
  -nomad
       Run Nomad diagnostics
  -os string
       Override operating system detection (default "auto")
  -serial
       Run products in sequence rather than concurrently
  -terraform-ent
        (Experimental) Run Terraform Enterprise diagnostics
  -vault
       D 1/ 3/ 11 / 1
```



Collecting a Vault Bundle





> hcdiag -vault

hcdiag: Checking product availability

hcdiag: Gathering diagnostics

hcdiag: Running seekers for: product=host

hcdiag: running: seeker=stats

hcdiag: Running seekers for: product=vault

hcdiag: running: seeker="vault version"

hcdiag: running: seeker="vault status -format=json"

hcdiag: running: seeker="vault read sys/health -format=json"

hcdiag: running: seeker="vault read sys/seal-status

-format=ison"

hcdiag: running: seeker="vault read sys/host-inf-format=json"

hcdiag: running: seeker="vault debug

-output=temp305349250/VaultDebug.tar.gz -duration=10s"

hcdiag: Created Results.jsofile: dest=temp305349250/Results.json

hcdiag: Created Manifest.jsofile:

dest=temp305349250/Manifest.ison

ncdiag: Compressed and archived output file: dest=.

Extending HCDiag



Config files

You can configure hodiag behavior with a HashiCorp Configuration Language (HCL) formatted file. If you examine the Results.json file under the relevant product key, such as vault, you can find the commands that are executed.

Seekers

In your custom configuration file you can define seekers that can execute commands to gather additional information.





Seeker Configuration

Custom seeker to check for Vault production hardening

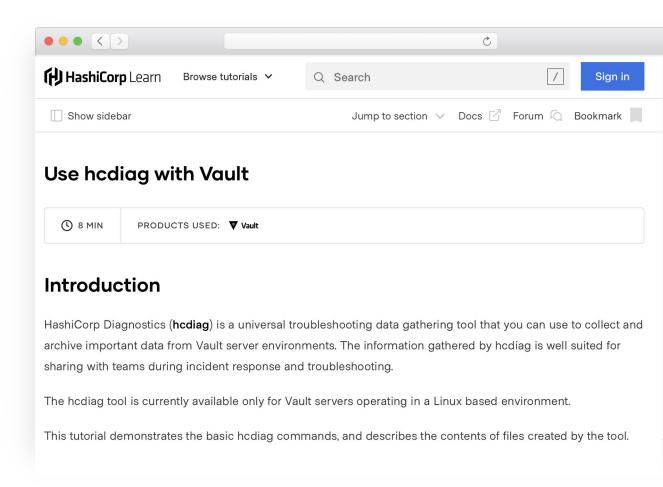
```
host {
# check vault is running as vault user
 command {
   run = "ps -u root"
    format = "string"
 command {
   run = "ps -u vault"
    format = "string"
# check if core dump is possible
 command {
   run = "sysctl fs.suid_dumpable"
    format = "string"
# get systemctl for vault
 command {
   run = "systemctl show vault -all"
    format = "string"
```



Learn Guide

Try hcdiag with Vault inside HashiCorp Docker image before testing in your environment.

Use hcdiag with Vault



Demo



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Q & A



Thank You

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