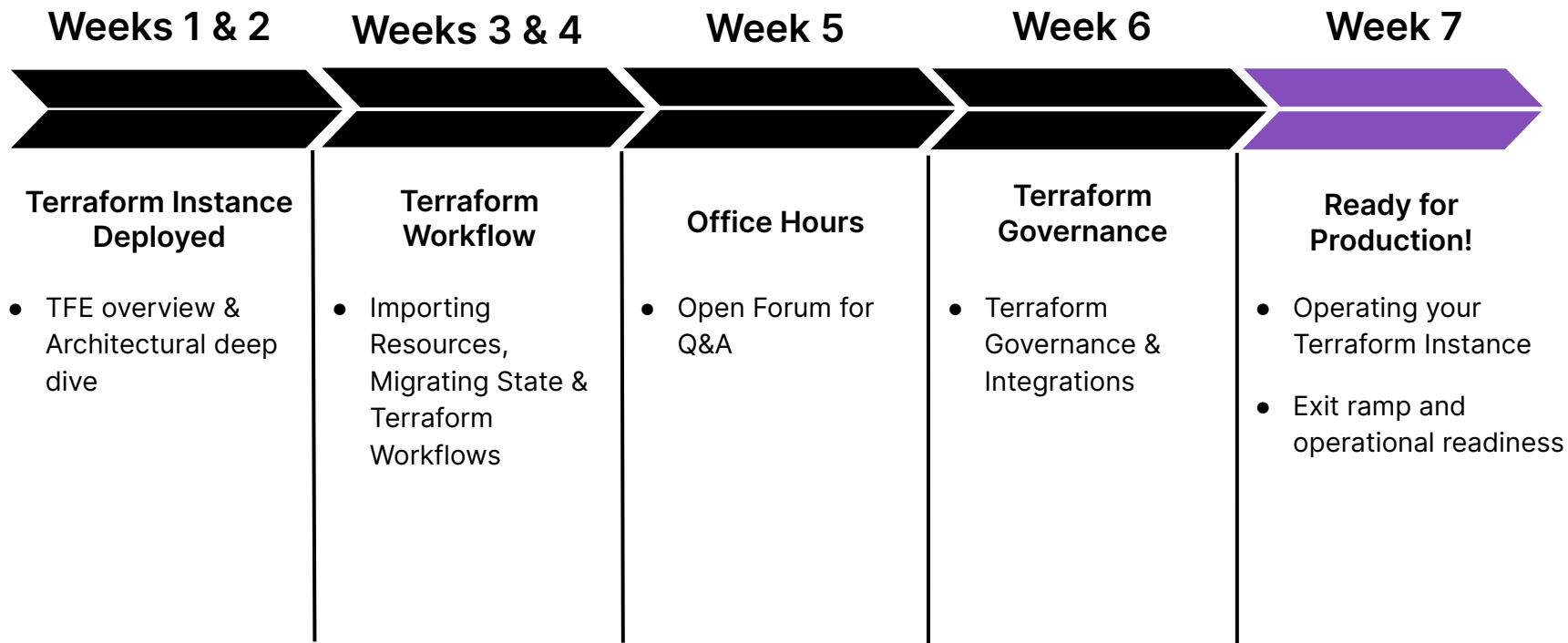


# Terraform Enterprise Onboarding Program Closing Thoughts

# TFE Path to Production



# Agenda

Onboarding Program Recap 01

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Production Readiness 02

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Closing Resources 03

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01

# Onboarding Program Recap



# Onboarding Goal

Our objective is to enable your team to successfully deploy the platform and see value within 90 days



## Terraform Enterprise Installed

- Terraform Enterprise installed in your environment(s)
- Basic configuration completed
- Telemetry and monitoring in place
- Deployment and operational patterns established



## Terraform Enterprise Operational

- Organizations, Teams, and Users created & SAML integration in place (if being used)
- First team onboarded and consuming Terraform Enterprise
- A roadmap created for onboarding additional teams to the platform



## Completed within 90 days

02

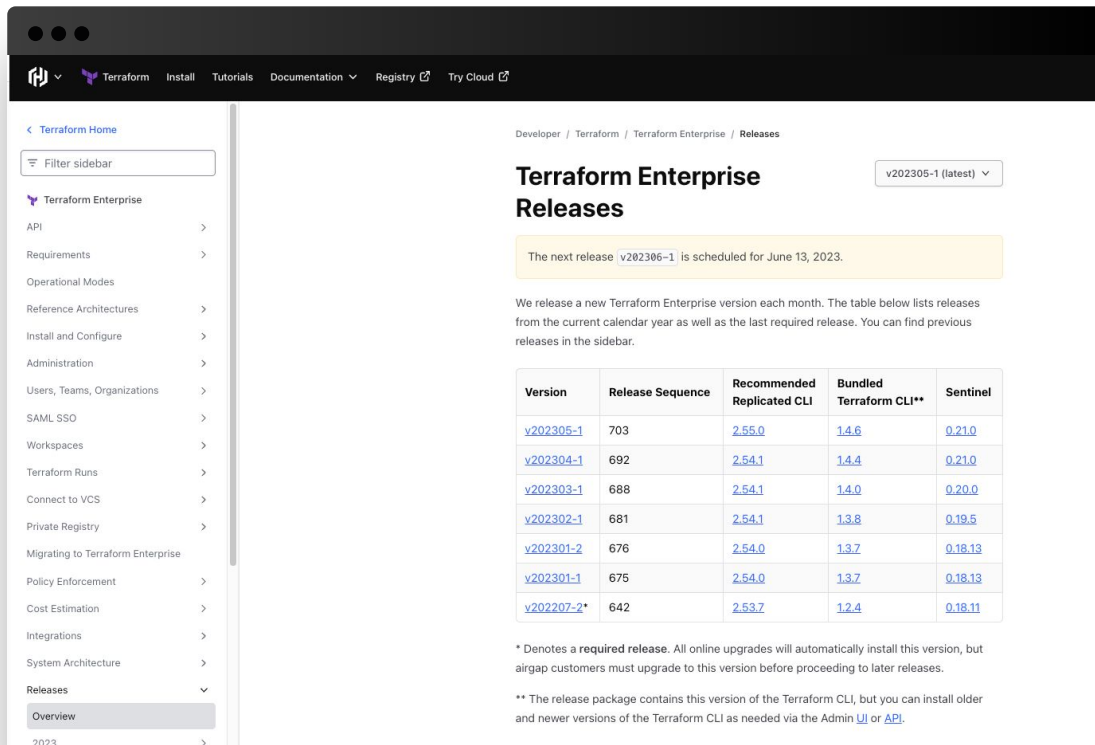
# Production Readiness

# Production Readiness



Bookmark TFE releases page:

<https://developer.hashicorp.com/terraform/enterprise/releases>



The screenshot shows the Terraform Enterprise Releases page. The left sidebar contains a navigation menu with items like API, Requirements, Operational Modes, Reference Architectures, Install and Configure, Administration, Users, Teams, Organizations, SAML SSO, Workspaces, Terraform Runs, Connect to VCS, Private Registry, Migrating to Terraform Enterprise, Policy Enforcement, Cost Estimation, Integrations, System Architecture, Releases, and Overview. The main content area is titled 'Terraform Enterprise Releases' and includes a dropdown for 'v202305-1 (latest)'. A yellow banner states: 'The next release v202306-1 is scheduled for June 13, 2023.' Below this, a paragraph explains the release schedule. A table lists the releases with columns for Version, Release Sequence, Recommended Replicated CLI, Bundled Terraform CLI\*\*, and Sentinel. The table shows releases from v202207-2\* to v202305-1. At the bottom, there are footnotes explaining the asterisks.

Version	Release Sequence	Recommended Replicated CLI	Bundled Terraform CLI**	Sentinel
v202305-1	703	<a href="#">2.55.0</a>	<a href="#">1.4.6</a>	<a href="#">0.21.0</a>
v202304-1	692	<a href="#">2.54.1</a>	<a href="#">1.4.4</a>	<a href="#">0.21.0</a>
v202303-1	688	<a href="#">2.54.1</a>	<a href="#">1.4.0</a>	<a href="#">0.20.0</a>
v202302-1	681	<a href="#">2.54.1</a>	<a href="#">1.3.8</a>	<a href="#">0.19.5</a>
v202301-2	676	<a href="#">2.54.0</a>	<a href="#">1.3.7</a>	<a href="#">0.18.13</a>
v202301-1	675	<a href="#">2.54.0</a>	<a href="#">1.3.7</a>	<a href="#">0.18.13</a>
v202207-2*	642	<a href="#">2.53.7</a>	<a href="#">1.2.4</a>	<a href="#">0.18.11</a>

\* Denotes a **required release**. All online upgrades will automatically install this version, but airgap customers must upgrade to this version before proceeding to later releases.

\*\* The release package contains this version of the Terraform CLI, but you can install older and newer versions of the Terraform CLI as needed via the Admin [UI](#) or [API](#).

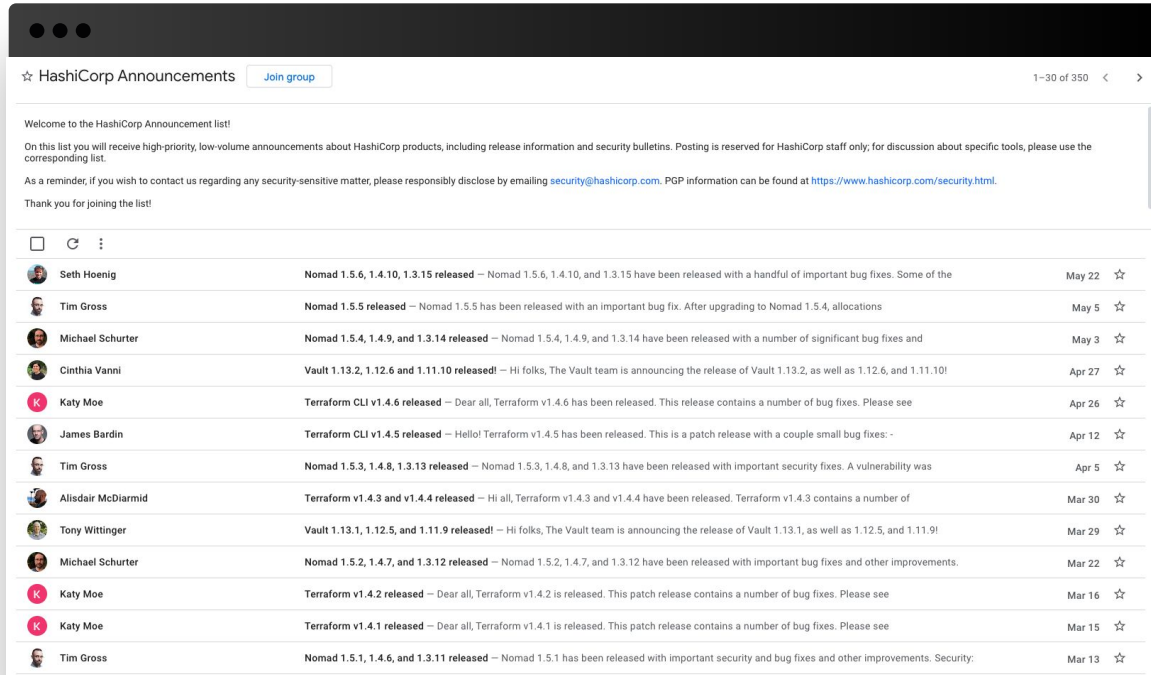


# Production Readiness



Subscribe to release notifications:

<https://groups.google.com/g/hashicorp-announce>



☆ HashiCorp Announcements [Join group](#) 1-30 of 350 < >

Welcome to the HashiCorp Announcement list!

On this list you will receive high-priority, low-volume announcements about HashiCorp products, including release information and security bulletins. Posting is reserved for HashiCorp staff only; for discussion about specific tools, please use the corresponding list.

As a reminder, if you wish to contact us regarding any security-sensitive matter, please responsibly disclose by emailing [security@hashicorp.com](mailto:security@hashicorp.com). PGP information can be found at <https://www.hashicorp.com/security.html>.

Thank you for joining the list!

	<b>Nomad 1.5.6, 1.4.10, and 1.3.15 released</b> – Nomad 1.5.6, 1.4.10, and 1.3.15 have been released with a handful of important bug fixes. Some of the	May 22	☆
	<b>Nomad 1.5.5 released</b> – Nomad 1.5.5 has been released with an important bug fix. After upgrading to Nomad 1.5.4, allocations	May 5	☆
	<b>Nomad 1.5.4, 1.4.9, and 1.3.14 released</b> – Nomad 1.5.4, 1.4.9, and 1.3.14 have been released with a number of significant bug fixes and	May 3	☆
	<b>Vault 1.13.2, 1.12.6 and 1.11.10 released!</b> – Hi folks, The Vault team is announcing the release of Vault 1.13.2, as well as 1.12.6, and 1.11.10!	Apr 27	☆
	<b>Terraform CLI v1.4.6 released</b> – Dear all, Terraform v1.4.6 has been released. This release contains a number of bug fixes. Please see	Apr 26	☆
	<b>Terraform CLI v1.4.5 released</b> – Hello! Terraform v1.4.5 has been released. This is a patch release with a couple small bug fixes: -	Apr 12	☆
	<b>Nomad 1.5.3, 1.4.8, 1.3.13 released</b> – Nomad 1.5.3, 1.4.8, and 1.3.13 have been released with important security fixes. A vulnerability was	Apr 5	☆
	<b>Terraform v1.4.3 and v1.4.4 released</b> – Hi all, Terraform v1.4.3 and v1.4.4 have been released. Terraform v1.4.3 contains a number of	Mar 30	☆
	<b>Vault 1.13.1, 1.12.5, and 1.11.9 released!</b> – Hi folks, The Vault team is announcing the release of Vault 1.13.1, as well as 1.12.5, and 1.11.9!	Mar 29	☆
	<b>Nomad 1.5.2, 1.4.7, and 1.3.12 released</b> – Nomad 1.5.2, 1.4.7, and 1.3.12 have been released with important bug fixes and other improvements.	Mar 22	☆
	<b>Terraform v1.4.2 released</b> – Dear all, Terraform v1.4.2 is released. This patch release contains a number of bug fixes. Please see	Mar 16	☆
	<b>Terraform v1.4.1 released</b> – Dear all, Terraform v1.4.1 is released. This patch release contains a number of bug fixes. Please see	Mar 15	☆
	<b>Nomad 1.5.1, 1.4.6, and 1.3.11 released</b> – Nomad 1.5.1 has been released with important security and bug fixes and other improvements. Security:	Mar 13	☆





# Production Readiness



Join security & vulnerability announcements list

<https://discuss.hashicorp.com/c/security/52>

The screenshot shows the HashiCorp Discuss forum interface. At the top, there's a navigation bar with the HashiCorp logo, a 'Discuss' link, a 'Sign in' button, a search icon, and a menu icon. Below the navigation bar is a banner for HashiDays in Paris. The main content area is titled 'Security updates for all HashiCorp products and services. Posting to this category is restricted to HashiCorp employees only.' Below this, there are tabs for 'Security', 'Tags', 'Latest', and 'Top'. The 'Latest' tab is selected. A table of topics is displayed with columns for 'Topic', 'Replies', 'Views', and 'Activity'.

Topic	Replies	Views	Activity
<b>About HashiCorp security updates</b> Security updates for all HashiCorp products and services. Posting to this category is restricted to HashiCorp employees only. Reporting Security Vulnerabilities We deeply appreciate any effort to discover and coordina... read more	0	5.1k	Sep '22
<b>HCSEC-2023-14 - Vault Enterprise Vulnerable to Padding Oracle Attacks When Using a CBC-Based Encryption Mechanism with a HSM</b> security-vault	0	809	May 1
<b>HCSEC-2023-13 - Nomad Unauthenticated Client Agent HTTP Request Privilege Escalation</b>	0	1.3k	Apr 6
<b>HCSEC-2023-12 - Vault's Microsoft SQL Database Storage Backend Vulnerable to SQL Injection Via Configuration File</b> security-vault	0	2.0k	Mar 29
<b>HCSEC-2023-11 - Vault's PKI Issuer Endpoint Did Not Correctly Authorize Access to Issuer Metadata</b> security-vault	0	1.2k	Mar 29
<b>HCSEC-2023-10 - Vault Vulnerable to Cache-Timing Attacks During Seal and Unseal Operations</b> security-vault	0	1.6k	Mar 29



# Terraform Enterprise Production Readiness



Architectural Decisions



Production Deployment Timeline



Use Case Implementation



Baseline Operations

# Terraform Enterprise

## Readiness Checklist



### Architectural Decisions

- Network access (Online or Air-Gapped install)
- Installation location(s) determined
- Operational mode determined
  - VMWare - Mounted Disk
  - Cloud Install - External Services
- Primary Operational Mode(s) Selected
  - VCS Driven
  - CLI
  - API
  - Agents
- SSO Configured
- VCS Configured



# Terraform Enterprise

## Readiness Checklist



### Production deployment

- Deployed in non-production environment(s)
- Production deployment planned & completed
- Testing plan established
- Plan for migration of existing OSS, state, variables, & applicable resources to the new platform



# Terraform Enterprise

## Readiness Checklist



### Use Case Implementation

- First use case implemented
- First team consuming the platform and deploying IaC with Terraform Enterprise
- Usage of Private Module Registry (PMR) and migration of existing reusable code to PMR to create standard modules
- Plan for implementation of policy and governance

# Terraform Enterprise

## Readiness Checklist



### Baseline Operations

- Backup & Restore strategy implemented
  - Backup strategy defined
  - Backup strategy tested
  - Cold standby implementation plan in place
  - Installation of TFE codified
- Upgrade cadence established
  - Minimum 4X per year upgrade cycle
  - Plan for testing in non-prod environments prior to upgrade
- Terraform code version upgrade plan
  - Lifecycle management plan established for TF code version(s) being used
  - Lifecycle management plan established for modules



03

# Closing Resources

# Additional Resources

- [Terraform Enterprise Adoption Guide](#)
- [Terraform Enterprise Recommended Practices and Workflows](#)
- [Recommended Terraform Enterprise Patterns](#)
- [Terraform Enterprise Production Readiness](#)
- [Terraform Tutorials Page](#)
- [Terraform Enterprise Homepage](#)



# TFCB Onboarding Journey Content

## [Custom Learn Collections](#)

- **Week 1** - [Welcome to TFE](#)
- **Week 2** - [TFE Pre-Install Checklist](#)
- **Week 3** - [Define Infrastructure with TFE Resources](#)
- **Week 4** - Office Hours
- **Week 5** - [TFE Backups & Restore](#)
- **Week 6** - [Active Active Reference Architecture](#)
- **Week 7** - [TFE Governance](#)





# Additional Training Resources

Wanting to Learn More?  
A Topic Not Covered?  
See these

[HashiCorp YouTube Page](#) - Training videos, Beneath the covers, Past conferences, etc

[HashiCorp User Groups \(HUGs\)](#) - With over 50 countries, and 155 user groups, find a HUG located near you

**HashiCorp Terraform Certification** - Even if you don't want the certification, the [Study Guide](#) is a relevant and useful curriculum to follow especially for team members new to Terraform

[HashiCorp Enterprise Academy](#) - Live instructional courses from HashiCorp Certified Instructors that deliver hands-on product curriculum

# HashiCorp Events

Visit our [events page](#) for future events to live webinars, virtual workshops and other training courses

The screenshot displays the HashiCorp Events website. The top navigation bar includes the HashiCorp logo, links for Why HashiCorp, Products, Solutions, Company, Partners, and Events, along with Resources & Support and a Contact sales button. The main content area features two large event cards. The left card is for HashiConf early bird tickets, scheduled for October 10-12, 2023, in San Francisco, offering a 20% discount on the HashiConf pass. The right card is for the Securing your Infrastructure with Terraform Series, a webinar series starting on June 7, 2023. Below these cards is a section titled 'Upcoming Events' with a filter for 'On-Demand Webinars'. The 'All' filter is selected, and there are dropdown menus for Product, Region, and Language. The 'June' section lists three events: HashiCorp Sponsoring at AWS Summit (June 01, 2023), Terraform Foundations Academy (June 05, 2023), and Vault Enterprise Academy (AMER) (June 06, 2023).

HashiCorp

Why HashiCorp Products Solutions Company Partners Events

Resources & Support Contact sales

OCT 10-12, 2023 | CONFERENCE

**HashiConf early bird tickets now on sale**

Join us in San Francisco for HashiCorp's community conference. Get 20% off your HashiConf pass for a limited time.

Register now

JUN 7 | WEBINAR SERIES

**Securing your Infrastructure with Terraform Series**

Join HashiCorp experts in a series of webinar episodes to learn how to secure infrastructure with Terraform.

Register Now →

**Upcoming Events**

On-Demand Webinars →

All Webinars Workshops Conferences Training Courses

Product Region Language

**June**

JUN 01 2023 | CONFERENCE

**HashiCorp Sponsoring at AWS Summit**

JUN 05 2023 | TRAINING

**Terraform Foundations Academy**

JUN 06 2023 | TRAINING

**Vault Enterprise Academy (AMER)**





# Thank you

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[www.hashicorp.com/customer-success](http://www.hashicorp.com/customer-success)