◆ Terraform Infrastructure Pipeline – Tool Usage Matrix

Tool	Pipeline Type	What It Scans	Tech / Language	Purpose	Recommended ADO Stage
TFLint	Infrastructure	Terraform source code	Terraform	Syntax validation, provider usage, best practices	PR Validation (Early)
tfsec	Infrastructure	Terraform code	Terraform	Detect security misconfigurations	PR Validation
Checkov	Infrastructure	Terraform	Terraform	IaC security & compliance (CIS, NIST, Azure)	PR Validation / Pre-Deploy
Terrascan	Infrastructure	Terraform	Terraform	Policy-as-Code enforcement	PR Validation
Skylint	Infrastructure	Terraform modules & structure	Terraform	Style, structure & convention checks	PR Validation
BiomeLinter	Infrastructure	Terraform, YAML	Terraform, YAML	Multi-linter & repo hygiene	PR Validation
Trivy (IaC)	Infrastructure	Terraform misconfigurations	Terraform	IaC misconfiguration & vulnerability scan	PR Validation
Terratest	Infrastructure	Deployed infrastructure	Terraform	Post-deployment infra validation	After `terraform apply` (Non-Prod)
TruffleHog	Infra & App	Git repo & commit history	All languages	Secrets detection	PR Validation

◆ Application Pipeline – Multi-Language Tool Usage Matrix

Tool	Pipeline Type	What It Scans	Supported Languages	Purpose	Recommended ADO Stage
BiomeLinter	Application	Source code, YAML, configs	Java, .NET, Node, Python, Go, etc.	Multi-language linting & formatting	PR Validation
Skylint (Optional)	Application	YAML / config standards	Language-agnostic	Config & style linting	PR Validation
TruffleHog	Application	Source code & Git history	All languages	Secrets detection	PR Validation
Trivy (FS Scan)	Application	Filesystem & dependencies	All languages	Dependency & supply-chain CVE scan	After Build
Trivy (Image Scan)	Application	Container images	Docker	Image vulnerability scanning	Before Image Push
Checkov (Optional)	Application	Terraform / Helm (if present)	IaC	IaC security inside app repos	PR Validation