

# Infrastructure as Code with Terraform

Frank Rosner (IT Consultant [@codecentric](#))

Twitter: [@FRosnerd](#)

GitHub: <https://github.com/FRosner>

Blog: <https://dev.to/FRosnerd>

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# Infrastructure as Code

## Concept

- Desired infrastructure state in declarative definition files
- Software adjusts state based on current and desired

## Properties

- Version control => audit, rollback, versioning, ... #gitops
- Allows high degree of automation
- Enables reproducibility, speed, and quality of deployments

# Infrastructure as Code

## Tooling

- imperative vs. declarative
- push vs. pull
- configuration management vs. orchestration management



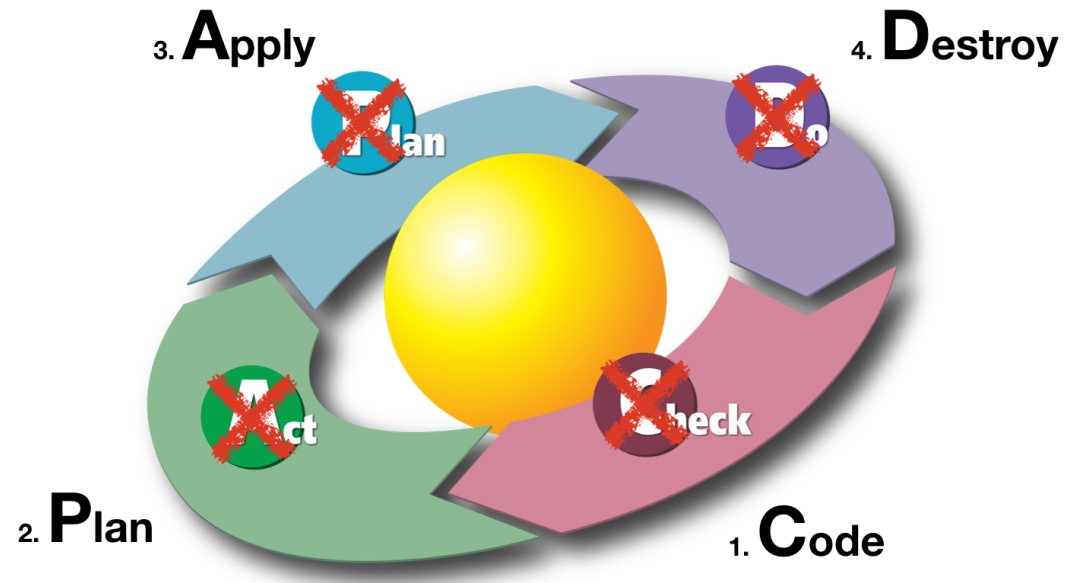
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# Terraform Basics

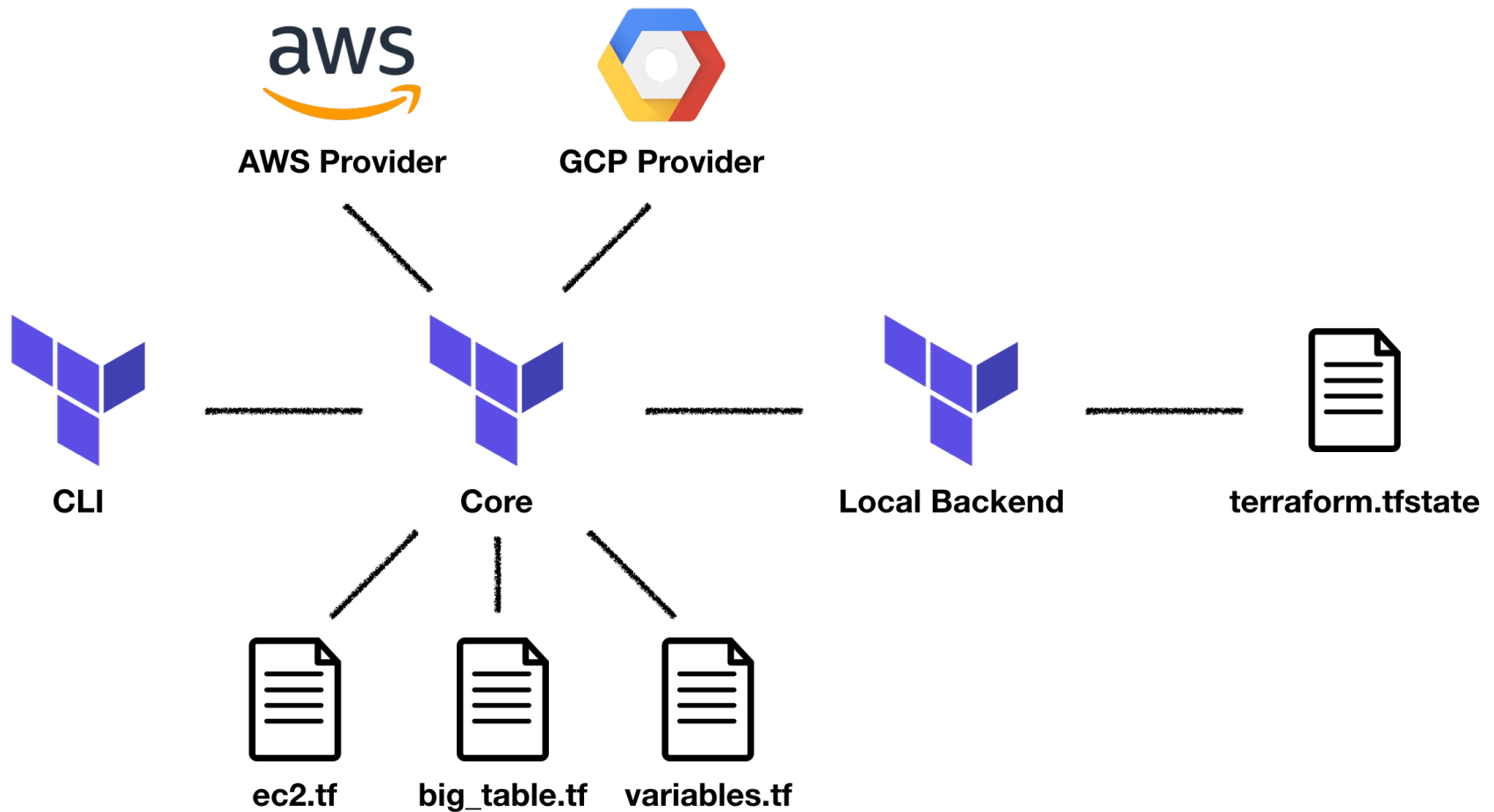
## Workflow

1. Code desired infrastructure state
2. **Plan** infrastructure changes to make reality match
3. **Apply** plan
- ...
4. **Destroy** infrastructure



# Terraform Basics

## Architecture





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# Terraform in Action

## Demo

<https://dev.to/frosnerd/infrastructure-as-code---managing-aws-with-terraform-i9o>