What are the Key features of Terraform?

The key features of Terraform are:

» Infrastructure as Code
- ✓ Infrastructure is described using a high-level configuration syntax.
- ✓ This allows a blueprint of your datacenter to be versioned and treated as you would any other code.
- ✓ Additionally, infrastructure can be shared and re-used.

» Execution Plans
- ✓ Terraform has a "planning" step where it generates an *execution plan*.
- ✓ The execution plan shows what Terraform will do when you call apply.
- ✓ This lets you avoid any surprises when Terraform manipulates infrastructure.

» Resource Graph
- ✓ Terraform builds a graph of all your resources, and parallelizes the creation and modification of any non-dependent resources.
- ✓ Because of this, Terraform builds infrastructure as efficiently as possible, and operators get insight into dependencies in their infrastructure.

» Change Automation
- ✓ Complex changesets can be applied to your infrastructure with minimal human interaction.
- ✓ With the previously mentioned execution plan and resource graph, you know exactly what Terraform will change and in what order, avoiding many possible human errors.