

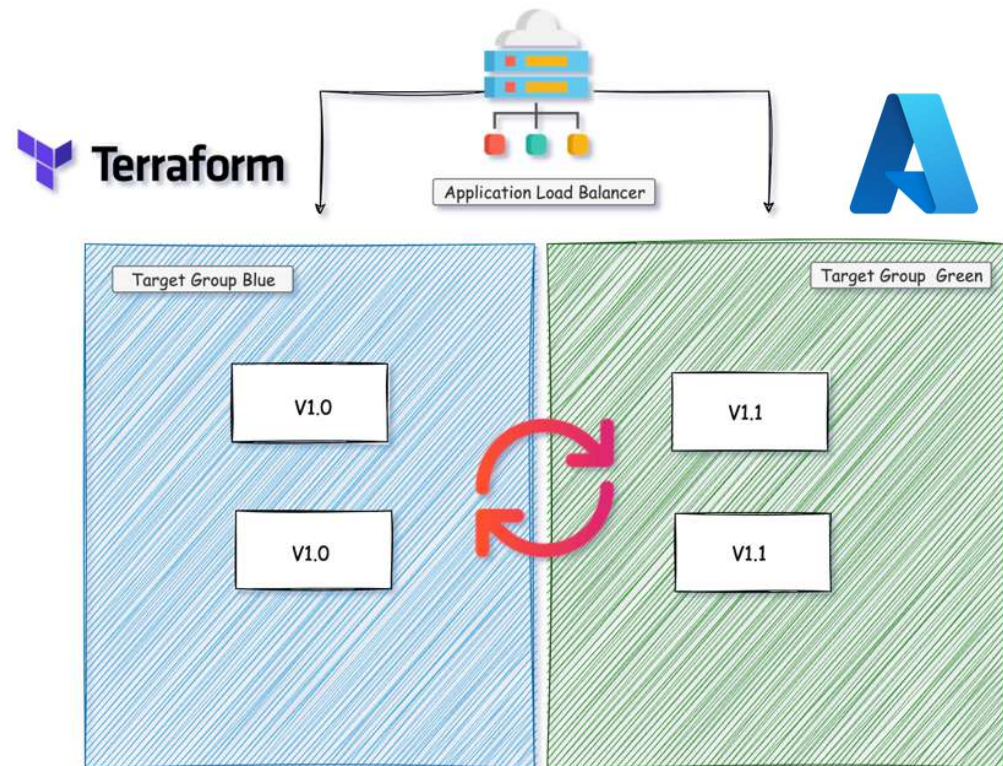
# Alpha Data's Blue-Green Deployment Platform – Powered by Terraform

Alpha Data's Blue-Green Deployment Platform is designed to provide a seamless and efficient deployment strategy for critical business applications.

Leveraging the power of Terraform Infrastructure as Code (IaC) and Microsoft Azure, this platform ensures minimal downtime during the release of new application code.

## Key Features

- **Terraform Workspaces:** Utilizes Terraform Workspaces to manage multiple environments efficiently.
- **IaC Automation:** Automates the entire deployment process, reducing manual intervention and errors.
- **Microsoft Azure Integration:** Fully integrated with Azure, leveraging its robust infrastructure and services.



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# Customer Reference Architecture

- Developer check-ins the code for the application and submits in the Github
- CI/CD pipeline triggers the build and moves the latest image to Azure Container Registry of the Customer
- Terraform Workspace managed by Alpha Data identifies the new trigger and pulls the image to initiate deployment as Blue Environment
- Environment is deployed as Blue with triggers the test case validation
- Once the Test is successful the Terraform code flips the Ports to Blue environment and IaC code 2 deletes the Green Environment to save the cost.

