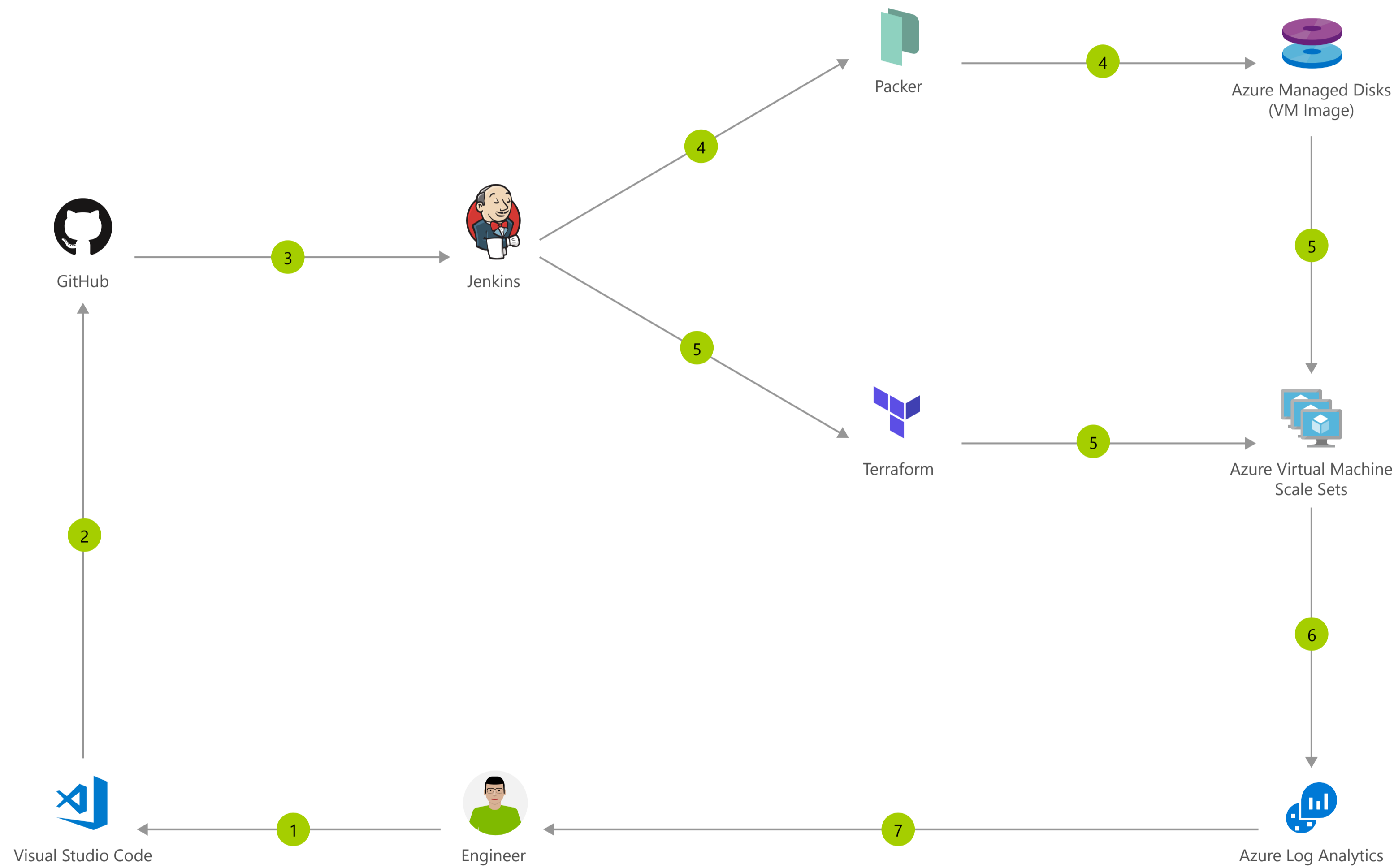


Immutable Infrastructure CI/CD Using Jenkins and Terraform on Azure Virtual Machine Scale Sets







Architecture overview

Azure is a world-class cloud for hosting virtual machines running Windows or Linux. Whether you use Java, Node.js, Go, or PHP to develop your applications, you'll need a continuous integration and continuous deployment (CI/CD) pipeline to push changes to these virtual machines automatically.

- 1 Change application source code.
- 2 Commit code to GitHub.
- 3 Continuous Integration Trigger to Jenkins.
- 4 Jenkins triggers a Packer image build to create a VM and stores it as a VM image using Azure Managed Disks.
- 5 Jenkins triggers Terraform to provision a new Virtual Machine Scale Set using the Azure Managed Disks VM image.
- 6 Azure Log Analytics collects and analyzes logs.
- 7 Monitor application and make improvements.

Azure products used in this solution

- | | |
|--|--|
|  Managed Disks |  Virtual Machine Scale Sets |
|  Visual Studio Code |  Log Analytics |