

A photograph of a man and a woman in an office setting. The man, with dark hair and a beard, is wearing a green button-down shirt and is pointing at a laptop screen. The woman, with long blonde hair, is wearing a white t-shirt and is looking at the screen. The background is slightly blurred, showing office equipment and a window.

# Manage Terraform Environments with Ease

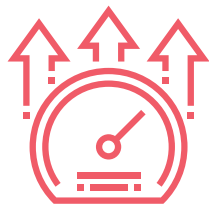


- » Empower IT innovation
- » Leverage scalable resources
- » Simplify developer workflows

Infrastructure as Code (IaC) is the process of replacing manual effort required for IT resource management and provisioning by simple lines of code.

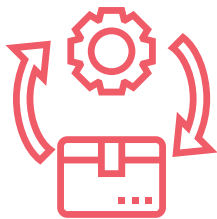
Manually filling up forms and taking the approval, walking to every IT admin to get the resources needed and then wait for days/weeks is a process that just doesn't work anymore. This is the problem that IaC as a solution intends to solve by empowering developers. Let's take a closer look at what IaC gets your organization.

# BENEFITS OF INFRASTRUCTURE-AS-CODE



## FASTER SPEED AND CONSISTENCY

The goal of IaC is to make things faster by eliminating manual processes and eliminating the slack in the process. A code-based approach makes it easier to get more done in less time. No need to wait on the IT admin to manually complete the task at hand before he can get to the next one. This also means that you can iterate quickly and more often. Consistency is another vital benefit of IaC. You do not need to worry about tasks not being completed because it is a weekend or because your admin is focused on something else.



## EFFICIENT SOFTWARE DEVELOPMENT LIFECYCLE

IaC shifts the power into the developer's hands. As the infrastructure provisioning becomes more reliable and consistent, developers can start focusing on application development more. Also, they can script once and use that code multiple times, thus, saving time and effort while keeping complete control.



## REDUCED MANAGEMENT OVERHEAD

In a data center world there was a need to have admins to govern and manage storage, networking, compute and other layers of hardware and middleware. IaC eliminates a need for these multiple roles. Those admins can now focus on identifying the next exciting technology they want to implement.

## CHALLENGES



Developers love the power of Terraform for infrastructure provisioning and management. However, IT operations do not get complete visibility and sometimes lose track of resource usage creating management issues. Some organizations feel Terraform is very developer-focused with a steep learning curve and does not provide the necessary levers to control resources better.



## CLOUDBOLT AND TERRAFORM

In order to allow CloudBolt users to leverage Terraform, we have developed two key options that IT admin and developers can use to drive efficiencies without sacrificing visibility and control.

With the first option, through a new third-party plug-in for CloudBolt, developers can call and invoke a service action in CloudBolt by using Terraform. Developers can write their code straight into Terraform plans and once they deploy that code it invokes an action in CloudBolt for the service needed. As simple as that. This option is focused on developers who want to continue using Terraform as the infrastructure management platform. By using CloudBolt in this process, IT admins maintain complete resource visibility and can support day-2 operations.

With the second option, users can invoke a call into Terraform from CloudBolt blueprints to deploy the needed service. This means that the users do not have to sign into the Terraform Command Line Interface (CLI) and can take actions from the CloudBolt blueprints directly. Day-2 operations are managed the same way as you would manage other hybrid cloud resources using CloudBolt.

### CloudBolt Enables Bi-directional Terraform Support

#### Option A



#### Option B



## ONE VIEW. MANY CLOUDS.

Automation. Flexibility. Control.

CloudBolt's hybrid cloud platform enables enterprise IT departments to build, deploy, and manage private and public clouds quickly and efficiently. The user friendly portal simplifies the complexities of hybrid cloud, giving end users the ability to manage and provision resources on demand, while administrators set provisioning conditions for governance. With CloudBolt, IT leverages its investment and controls costs while increasing flexibility and agility.



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