

Updating Your Configuration with More Resources



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Overview



Improving our architecture

Using the documentation

Adding resources

Viewing state data



Globomantics Scenario



Potential Improvements



Add a second availability zone

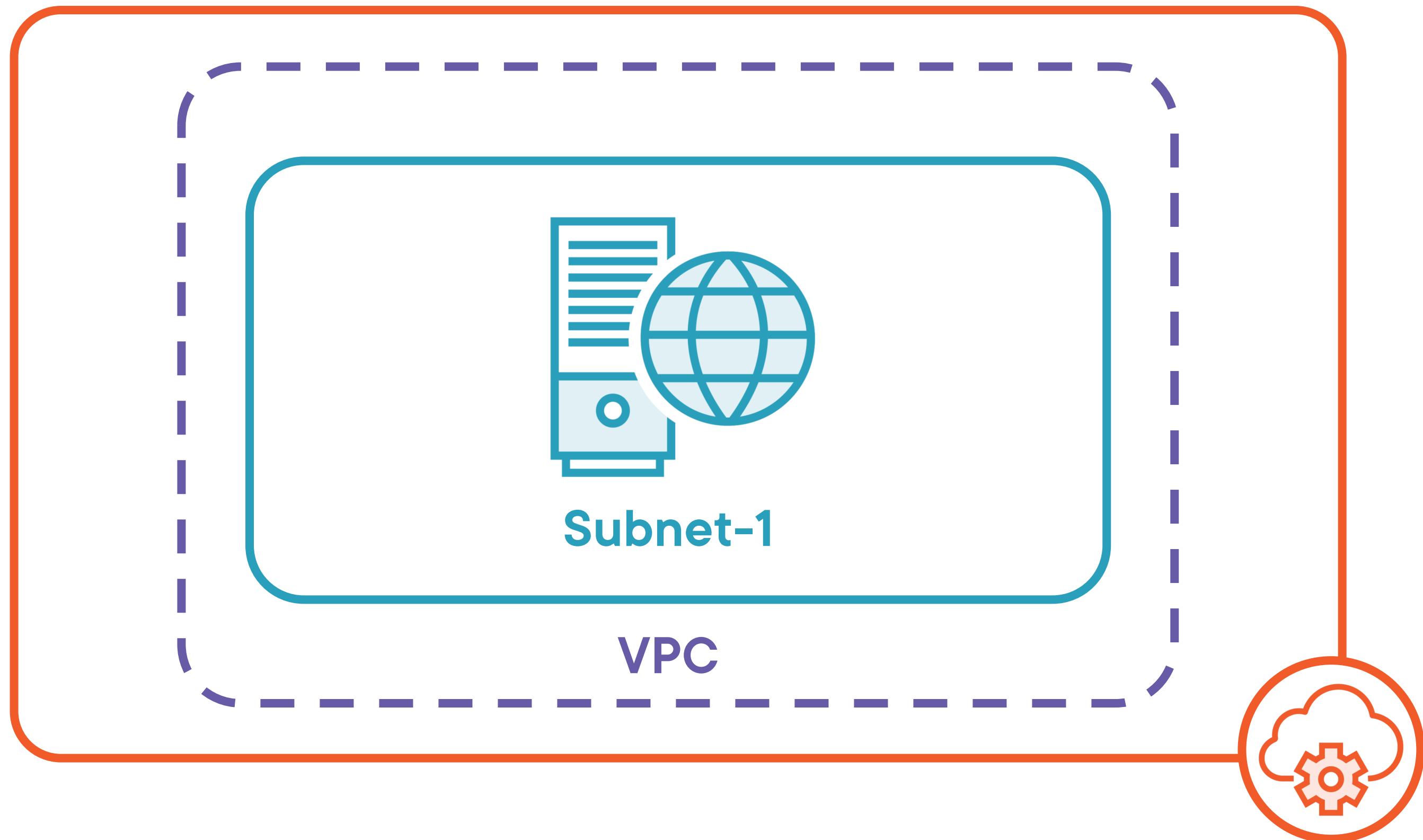
Add a second EC2 instance

Add load balancing for instances

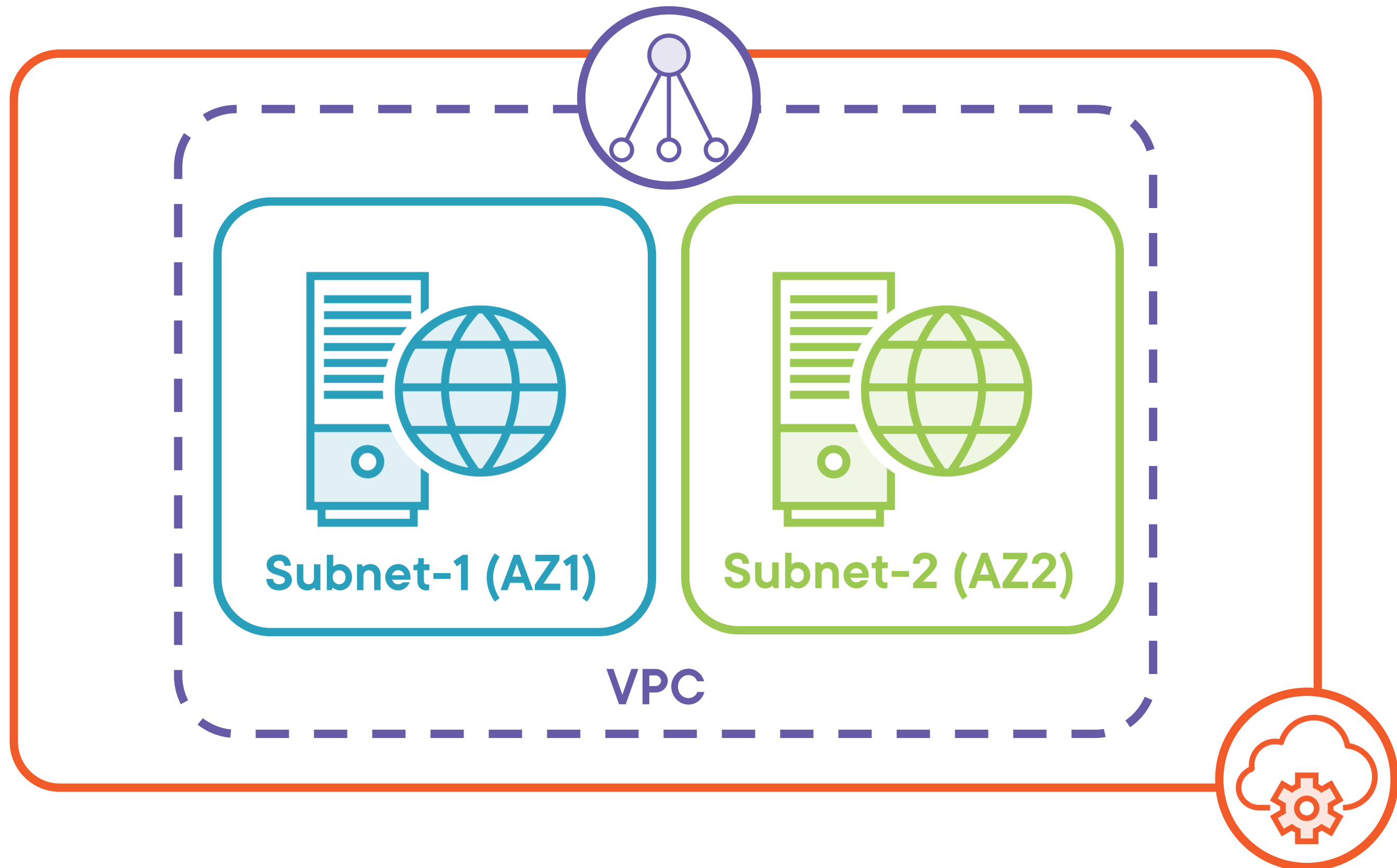
Maintain readability of code



Deployment Architecture



Deployment Architecture



Additional Data Sources and Resources

Data source

"aws_availability_zones" # List of current availability zones

Load balancer resources

"aws_lb" # AWS Application Load Balancer

"aws_lb_target_group" # Target group for load balancer

"aws_lb_listener" # Listener configuration for target group

"aws_lb_target_group_attachment" # Attach to EC2 instances



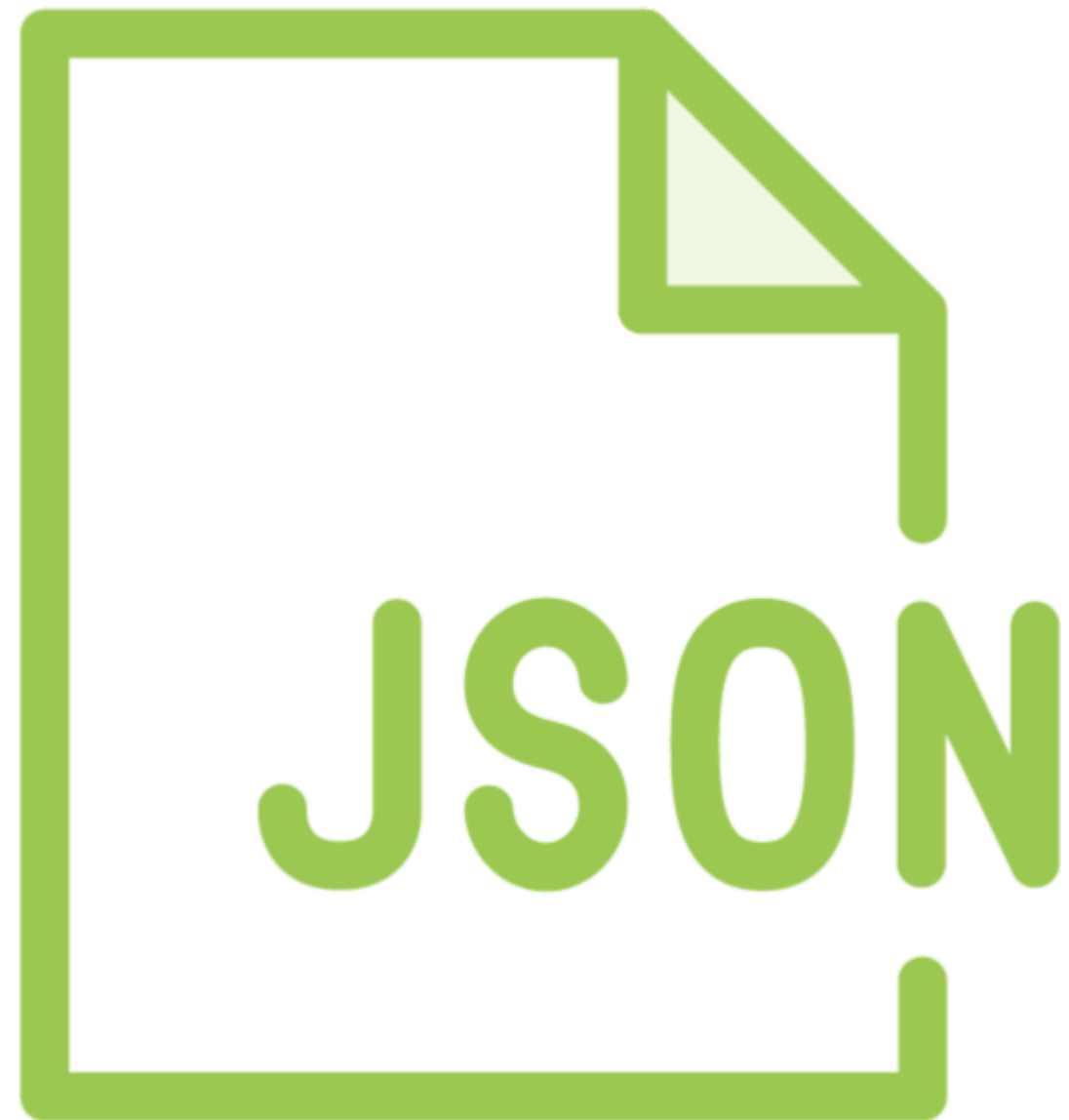
There is **no shame** in
reading the docs.



Viewing State Data



Terraform State



JSON format (Do not touch!)

Resources mappings and metadata

Locking

Location

- **Local**
- **Remote: AWS, Azure, NFS, Terraform Cloud**

Workspaces

terraform.tfstate

```
{  
  "version": 4,  
  "terraform_version": "1.0.8",  
  "serial": 30,  
  "lineage": "",  
  "outputs": {},  
  "resources": []  
}
```

State Commands

List all state resources

terraform state list

Show a specific resource

terraform state show ADDRESS

Move an item in state

terraform state mv SOURCE DESTINATION

Remove an item in state

terraform state rm ADDRESS



First rule of Terraform?

Make all changes with Terraform.



Summary



Improving our deployment

Read the docs!

Explore state data



Up Next:
Adding a New Provider to Your Configuration

