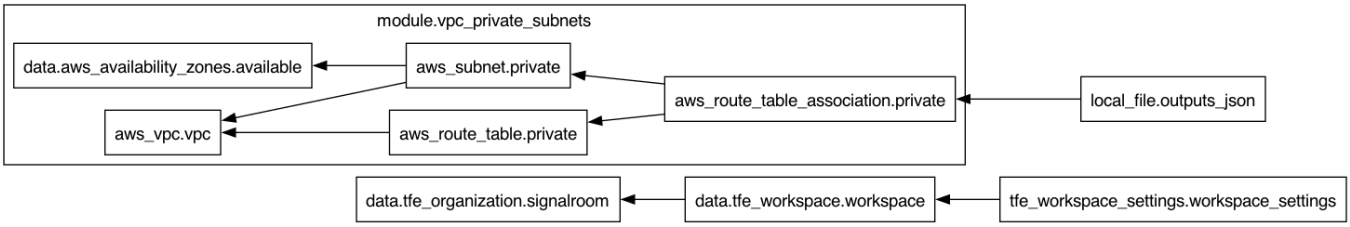
Infrastructure as Code (IaC) AWS Private VPC Setup

This repository contains Terraform code to create a private Virtual Private Cloud (VPC) in AWS. The setup includes subnets, route tables, security groups, and other necessary components to establish a secure and isolated network environment.

Below is the Terraform visualization of the infrastructure that's created:



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1.0 `deploy.sh` script arguments

1.1 `subnet_prefix` argument:

VPC Prefix	`subnet_prefix`	newbits	Resulting Subnets	IPs per Subnet
`/16`	`/20`	`4`	16 subnets	4,096
`/16`	`/24`	`8`	256 subnets	256
`/16`	`/28`	`12`	4,096 subnets	16
`/20`	`/24`	`4`	16 subnets	256
`/20`	`/28`	`8`	256 subnets	16
`/24`	`/28`	`4`	16 subnets	16

What you need to know:

- The **newbits** determines how many additional bits to add to the network prefix for subnettings.
- The **VPC Prefix** is the number after the slash in your VPC's CIDR block. It indicates **how many bits define the network portion** of the IP address range.
- The `subnet_prefix` is the target prefix length you want for your subnetsafter subdividing your VPC CIDR block.

2.0 Resources

- CIDR to IPv4 Conversion