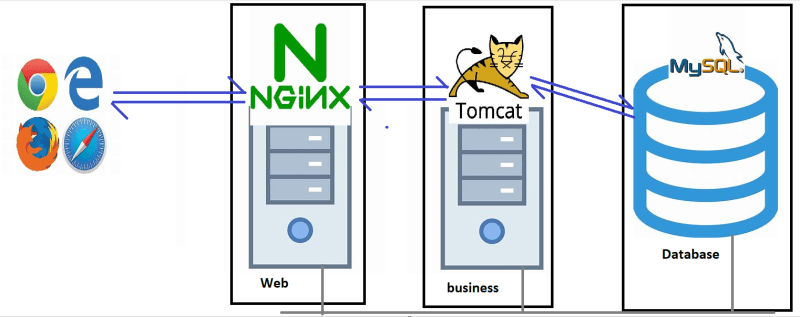
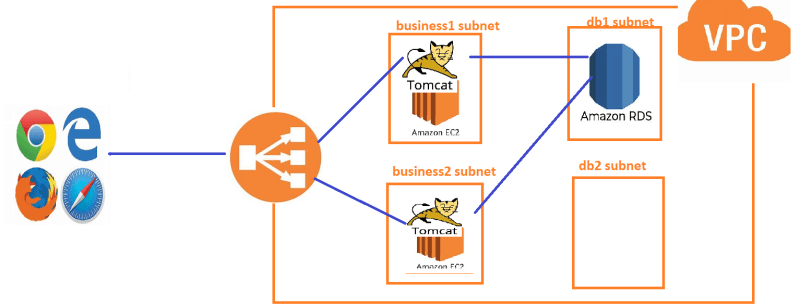
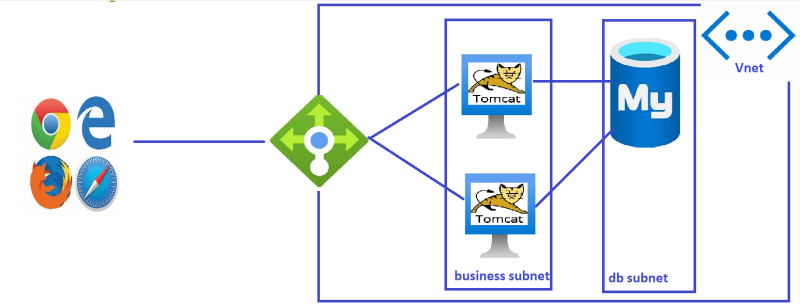
**N-Tier Application**

* Consider the following architecture of a typical web application (ticket booking)  
  
* To realize this application on AWS, the high level overview is as shown below  
  
* To realize this application on Azure, the high level overview is as shown below  
  

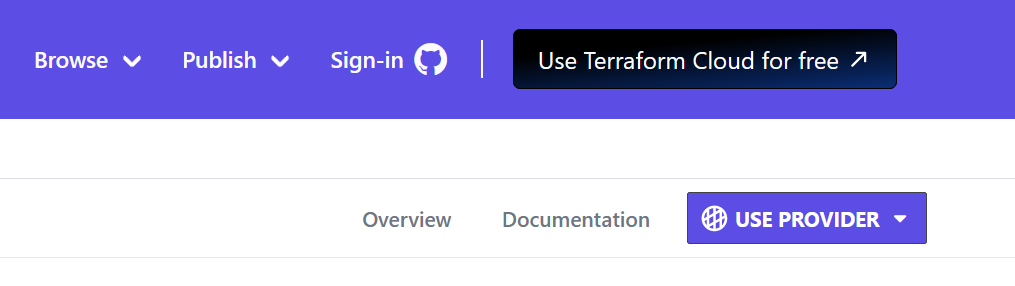
**WOW (Ways of Working)**

* Let’s realize the architecture manually, make a note of
  + resource
  + inputs
  + outputs
* Find resources in Terraform to acheive the above manual steps

**Configuring a Provider in Terraform**

**AWS Provider**

* Terraform aws provider uses the AWS APIs to get the infra created.
* To Create infrastructure in your AWS Account, it needs AWS programatic credentials (Secret key and access key)
* To configure these keys



* Create IAM Secret key and access key <https://sst.dev/chapters/create-an-iam-user.html> for manual steps
* Lets write provider configuration

provider "aws" {

region = "us-west-2"

access\_key = "AKIAZ4ECZC3PP5DPPHG6"

secret\_key = "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"

}

* This is not a great way as we are having sensitive information in the text format.
* Best way is to install aws cli on the machine with terraform and terraform will automatically pickup credentials from there.
* Installing aws cli <https://registry.terraform.io/providers/hashicorp/aws/latest>
* Now your provider can be as simple as

provider "aws" {

region = "us-west-2"

}

Note: If you don’t want to share your key then do aws configure, and update your key over their. Terraform will pick key from them.