Packer

- This is the tool used for creating reusable vm images for virtualization/cloud providers
- to install packer Refer Here
- This tool expects azure cli and aws cli to be installed and configured
- Create a new folder and create any file with `<name>.pkr.hcl`
- Add plugins

```
packer {
  required_plugins {
    amazon = {
      source  = "github.com/hashicorp/amazon"
      version = "~> 1"
    }
  }
}
```

- Then add the source

```
source "amazon-ebs" "basic-example" {
  region =  "ap-south-2"
  source_ami =  "ami-0e17b4db59f6aafcc"
  instance_type =  "t3.micro"
  ssh_username =  "ubuntu"
  ami_name =  "cars-v1.0"
}
```

- Then the provisioner i.e. the script that needs to be execute

```
build {
  sources = [
     "source.amazon-ebs.basic-example"
   ]
   provisioner "shell" {
    inline = [
      "sudo apt update",
      "sudo apt install apache2 unzip -y",
      "cd /tmp",
      "wget https://www.free-css.com/assets/files/free-css-
templates/download/page296/carvilla.zip",
      "unzip carvilla.zip",
      "sudo mv /tmp/carvilla-v1.0 /var/www/html/cars"
      ]
  }
}
```

- Cars Packer

```
packer {
  required_plugins {
    amazon = {
      source  = "github.com/hashicorp/amazon"
      version = "~> 1"
    }
  }
}


source "amazon-ebs" "basic-example" {
  region =  "ap-south-2"
  source_ami =  "ami-0e17b4db59f6aafcc"
  instance_type =  "t3.micro"
  ssh_username =  "ubuntu"
  ami_name =  "cars-v1.0"
}

build {
  sources = [
    "source.amazon-ebs.basic-example"
   ]
   provisioner "shell" {
    inline = [
      "sudo apt update",
      "sudo apt install nginx unzip -y",
      "cd /tmp",
      "wget https://www.free-css.com/assets/files/free-css-
templates/download/page296/carvilla.zip",
      "unzip carvilla.zip",
      "sudo mv /tmp/carvilla-v1.0 /var/www/html/cars"
      ]
  }
}
```

- Repairs Packer

```
packer {
  required_plugins {
    amazon = {
      source  = "github.com/hashicorp/amazon"
      version = "~> 1"
    }
  }
}
```

```
source "amazon-ebs" "basic-example" {
  region =  "ap-south-2"
  source_ami =  "ami-0e17b4db59f6aafcc"
  instance_type =  "t3.micro"
  ssh_username =  "ubuntu"
  ami_name =  "cars-v1.0"
}

build {
  sources = [
     "source.amazon-ebs.basic-example"
   ]
  provisioner "shell" {
    inline = [
        "sudo apt update",
        "sudo apt install nginx unzip -y"
        "cd /tmp",
        "wget https://www.free-css.com/assets/files/free-css-
templates/download/page296/inance.zip",
        "unzip inance.zip",
        "sudo mv /tmp/inance-html /var/www/html/repairs"

    ]
  }
}
```