An Overview of Packer

Packer is part of the hashilorp open source suite of tools, and this is the official Packer page: https://www.packer.io/.

It's an open somece and-line tool that allow us to accepte autom VH images of any OS on several platforms from a ISON file.

Packer's operation is simple; it is based on the basic OS provided by the different cloud providers and configures a temporary VM by executing the scripts described in the JSON template. Then, from this temporary VM, Packer generates a custom image ready to be used to provision VMs.

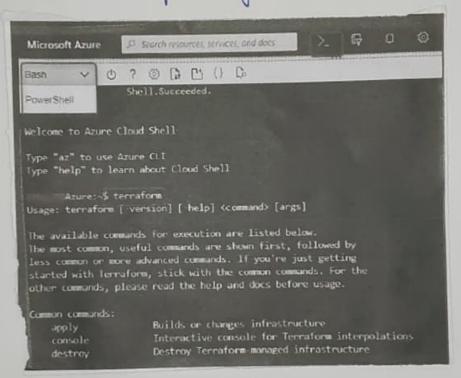
Apart from VM images, Packer also provides other types of images such as Docker images or vagrant images.

Optimizing with Packer Infrastructure Deployment

Technical requirement: Packer are used to create a vm image in an Azure infrastructure as an example of cloud infrastructure.

Integrating Packer with Azure Cloud Shell

Provisioning Cloud Infrastructure with terraform, Packer is also integrated with Azure Cloud shell as shown in the following screenshot:



Checking the packer installation

Once installed, we can check the Protalled revision of Packer by running the following and.

packer -- version

This and displays the installed Packer version

4 packer -- version

1.4.2

```
y terraform $ (TERRAFORM VERSION) SHA256SUMS sig terraform $ (TERRAFORM VERSION) SHA256SUMS 82 shasum -a 256 oc terraform
orn $(TERRAFORM VERSION) SHA256SUMS 2281 | grep "$(TERRAFORM VERSION) linux amod4.zip:\sck" && unzip -o terraform $1
TERRAFORM VERSION | linux_amd64.zip = d /usr/local/bin
 % Total % Received % Xford Average Speed Time Time Correct
gpg: Total number processed: 1
            There is no indication that the signature belongs to the owner.
Primary key fingerprint: 91A0 E7F8 SD05 C656 308E F169 5185 2087 348F FC4C
Archive: terraform 0.11,13 linux and64.zip
```

Installing Packer (Installing Manually)

To install Packer manually,

- 1. Go to the official download page (https://
- 2. After downloading, unzip and copy the binary into an execution directory (for example, inside c:) packer).
- 3. Then the Path environment variable must be set with the path to the binary directory.

Installing by script

Installing packer by script on windows

On windows, we can me chocoletey, which is a software package manager, to dedicated to software got is widely used for the automation of slw on windows servers or even local, machine.

Chocoletey's official website is here: https://
chocolatey.org/, and its installation documentation
is here: https://chocolatey.org/install.

Once Chocoletey is installed, we just need to not the following and in powershell or am D tool choco install packets -y.

The following is the screenshot of packer installation.

The execution of choco install packer - y installs the latest version of Packer from chocoletey.