



Template beheer automatiseren met Packer

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vMA
TechCon
On-Line



Agenda

- DevOps 101
- Infrastructure as Code
- HashiCorp Packer
 - Packer commands
 - HCL Configuration language
- CI/CD Pipeline
- Demo

Wie is Rudolf Kleijwegt?

- Infrastructuur Consultant @ Init IQ
- Blogging @ vcloudvision.com
- Fulltime #WFH sinds mei 2020

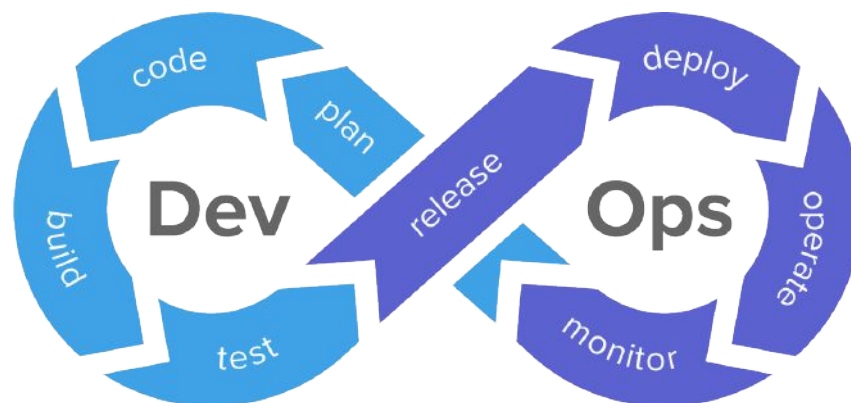


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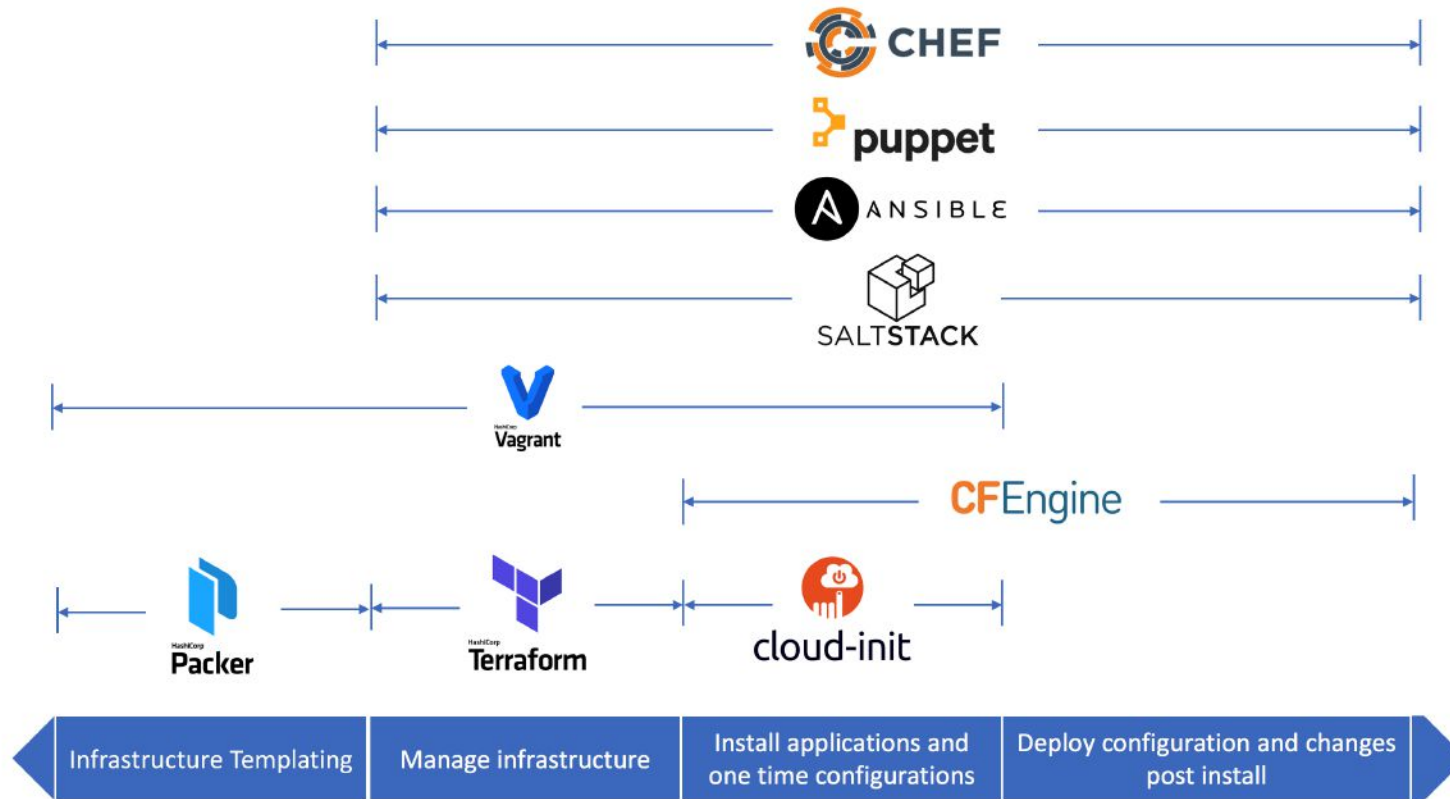
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DevOps 101

Developer	Operator
Applicaties beschikbaar stellen	Beschikbaarheid waarborgen
Change via code	Changes veelal handmatig
Test via pipeline	Test handmatig
Cattle	Pets
Source code	Binaries



Infrastructure as Code (IaC)



HashiCorp Packer



- Open source tool voor het maken van virtuele machine templates
- Te installeren op: Mac, Windows, Linux, FreeBSD, OpenBSD, Solaris
- Connectoren voor verschillende platformen



Packer commands

> packer

Usage: packer [--version] [--help] <command> [<args>]

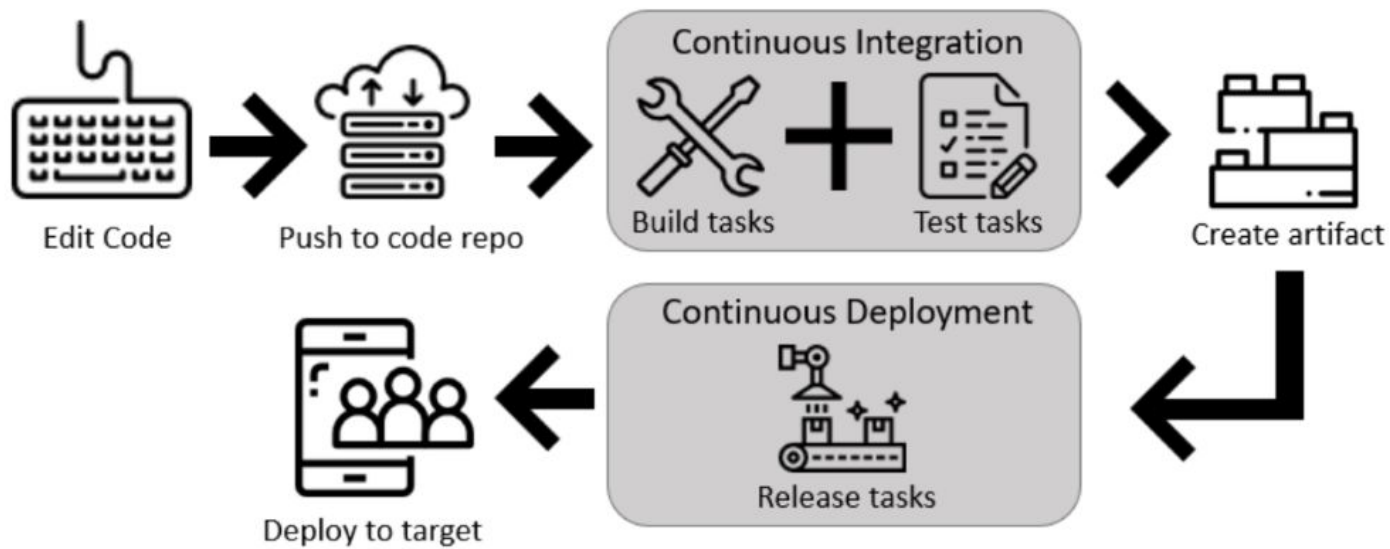
Available commands are:

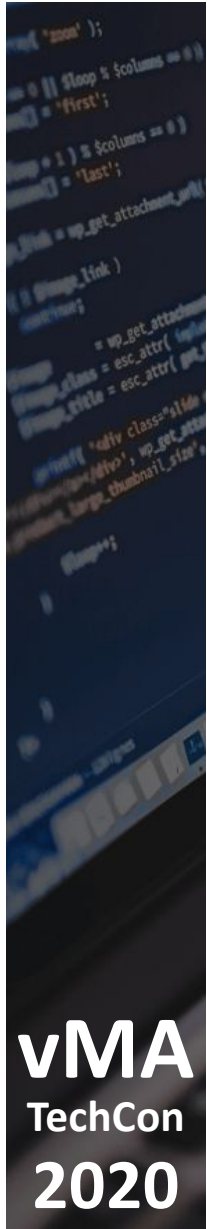
build	build image(s) from template
console	creates a console for testing variable interpolation
fix	fixes templates from old versions of packer
hcl2_upgrade	transform a JSON template into a HCL2 configuration
inspect	see components of a template
validate	check that a template is valid
version	Prints the Packer version

HCL Configuration Language

```
CODE EDITOR
{
  "builders": [
    {
      "type"      : "vmware-iso",
      "iso_url"   : "{{user `template_sourcedir`}}/debian-10.4.0-amd64-netinst.iso",
      ...
    },
    {
      "type"      : "vsphere-iso",
      "vcenter_server" : "{{user `vsphere_hostname`}}",
      "username"    : "{{user `vsphere_username`}}",
      "password"    : "{{user `vsphere_password`}}",
      "iso_url"     : "{{user `template_sourcedir`}}/debian-10.4.0-amd64-netinst.iso",
      ...
    }
  ],
  "provisioners": [
    {
      "type"      : "shell",
      "inline"    : ["figlet Welcome to vMA TechCon 2020 !"]
    }
  ]
}
```


CI/CD Pipeline






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IT IS
DEMO
TIME**

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Vragen?