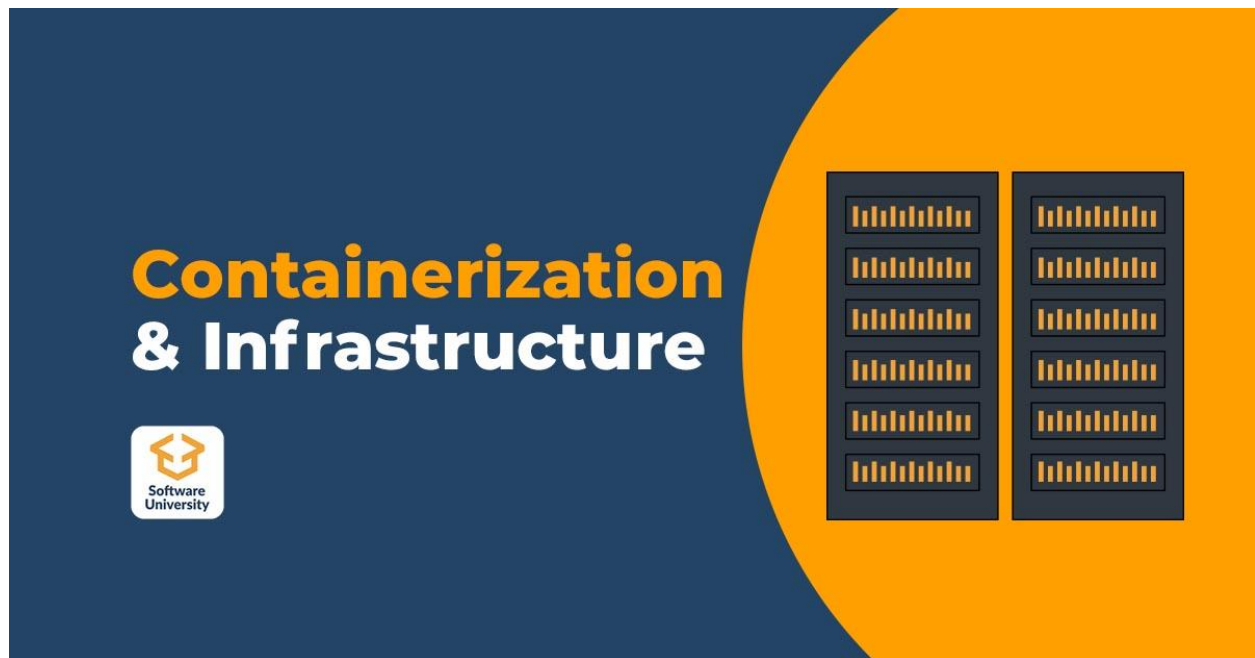


DevOps and Cloud

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Terraform Fundamentals

Homework (M4)

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Environment Setup

A single VM will be set up with Vagrant. All tasks will be performed inside Debian VM.

Docker and Terraform installed on the Debian VM. This is convenient because we can leverage auto completion and generally, I feel better in the Linux Bash terminal than PowerShell.

Terraform and Docker

Remote Image with Local Mount

The files for the task are located inside terraform/task-1a folder.

First, we need to get the project.

```
git clone https://github.com/shekeriev/bgapp.git
```

We will be using docker provider and to download it we need to initialize the project with:

```
terraform init
```

```
vagrant@docker:/vagrant/terraform/task-1a$ terraform init
Initializing the backend...
Initializing provider plugins...
- Finding kreuzwerker/docker versions matching "3.6.2"...
- Installing kreuzwerker/docker v3.6.2...
- Installed kreuzwerker/docker v3.6.2 (self-signed, key ID BD080C4571C6104C)
Partner and community providers are signed by their developers.
If you'd like to know more about provider signing, you can read about it here:
https://developer.hashicorp.com/terraform/cli/plugins/signing
Terraform has created a lock file .terraform.lock.hcl to record the provider
selections it made above. Include this file in your version control repository
so that Terraform can guarantee to make the same selections by default when
you run "terraform init" in the future.

Terraform has been successfully initialized!

You may now begin working with Terraform. Try running "terraform plan" to see
any changes that are required for your infrastructure. All Terraform commands
should now work.

If you ever set or change modules or backend configuration for Terraform,
rerun this command to reinitialize your working directory. If you forget, other
commands will detect it and remind you to do so if necessary.
```

To validate that our configuration is correct we use:

```
terraform validate
```

```
vagrant@docker:/vagrant/terraform/task-1a$ terraform validate
Success! The configuration is valid.
```

Local Image Build

The files for the task are located inside terraform/task-1b folder.

First, we need to get the project.

```
git clone https://github.com/shekeriev/bgapp.git
```