# AWS Lab 1 – Web App

Please create AWS environment as following:

Phase 1:

* Create a **VPC** + 2 **Subnets (public or private?) AZ? READY**
* Configure **Routes** and configure limited **SGs (Which route and which SG? Standard?) READY**
* Create **1 Linux and 1 Windows intances in private clouds with a free tire (no public ipv4 addresses shouldn’t be used) Для чего эти инстансы? READY**
* Create S3 bucket and store some photos in it. (the access to the bucket should be **Private** Only) **READY**
* Create 2 instances with Fargate and Service (Application) that would be access via ALB (ECS) **READY**
* Surfing the application web, should show “**Hello Commit**” with a **logo (photos grom the Bucket) Эта апликация где работает, Fargate или EC2 Windows/Linux? READY**
* The service should be **exposed** to the Internet over HTTPS. **READY, but not self-signed TLS certificate, used my certificate and domain name.**
* You can use self-signed **TLS** certificate.
* Provide instructions how to create and attach a valid **HTTPS** to the service  
  **Phase 1 - Это все TF или руками?**

Phase 2:

* Create Lambda with minimal policy to stop & start the linux and the windows EC2’s (don’t use the instance id), start the machines each day at 13:00 and stop them at 13:30. **READY (2 Lambdas and 2 events)**
* Create above infrastructure via **CloudFormation** and **Terraform (except the lambda) CLF or TF?**
* Create a pipeline in codePipeline that should be run automatically when code is changed, change the logo of your application and notice the automatic change when surfing web application
* Create above CodePipeline via terraform
* Initiate new project (public) in github and store the CFN at branch ‘lab-cfn’
* Create a new branch in the same github project and store the first TF at branch ‘lab-tf’
* Create a new branch in the same github project and store the codePipeline spec and ReadMe.md file with instructions how to surf your application and how to make changes at branch ‘lab-pipeline’ Что делает эта ветка?
* Create a new branch in the same github project and store the second TF at branch ‘lab-tf-pipeline’ Что делает эта ветка?

Как это все оформить? В виде репы с описанием и кодом? Дать доступ в AWS?