

EPAM University Programs

DevOps education program

Module 2 Virtualization and Cloud Basic

TASK 2.2

1. Read the terms of Using the [AWS Free Tier](#) and the ability to control their own costs.
2. [Register with AWS](#) (first priority) or alternatively, you can register with [AWS Educate](#) if you are currently a student.
3. Find the [hands-on tutorials](#) and [AWS Well-Architected Labs](#) for your AWS needs. Explore list of step-by-step tutorials for different category. Use, repeat and have fun))
4. Review the 10-minute [example](#) Launch a Linux Virtual Machine with Amazon Lightsail. Repeat, create your own VM in the AWS cloud and connect to it.
5. Launch another Linux Virtual Machine **without** Amazon Lightsail. It is recommended to use the t2 or t3.micro instance and the CentOS operating system.
6. Create a snapshot of your instance to keep as a backup.
7. Create and attach a Disk_D (EBS) to your instance to add more storage space. Create and save some file on Disk_D.
8. Launch the third instance from backup.
9. Detach Disk_D from the 2nd instance and attach disk_D to the new instance.
10. Launch and configure a WordPress instance with Amazon Lightsail [link](#)
11. Review the 10-minute [example](#) Store and Retrieve a File. Repeat, creating your own repository.
12. Review the 10-minute [example](#) Batch upload files to the cloud to Amazon S3 using the AWS CLI. Create a user AWS IAM, configure CLI AWS and upload any files to S3.
13. Review the 10-minute [example](#). Explore the possibilities of creating your own domain and domain name for your site.
14. Review the 10-minute [example](#) Deploy Docker Containers on Amazon Elastic Container Service (Amazon ECS). Repeat, create a cluster, and run the online demo application or better other application with custom settings.
15. Create a static website on Amazon S3, publicly available ([link1](#) or [link2](#) - using a custom domain registered with Route 53). Post on the page your own photo, the name of the educational program (**EPAM DevOps online Autumn 2021**), the list of AWS services with which the student worked within the educational program or earlier and the full list with links of completed labs (based on [tutorials](#) or [qwiklabs](#)). Provide the link to the website in your report and CV.