**Assignment for the DevOps Junior:**

Please find below the assignment which is part of our interview process. I’m also attaching some instructions to help you complete the assignment.

Keep in mind that there are no ‘right answers.’ This assignment is designed is to gauge your learning skills and give us an idea of how you approach tasks relevant to the DevOps Junior role.

You can and should use google at any stage of the assignment.

In addition, the assignment is separated into two parts, 1 Azure part+ Windows and the second part is Linux

Assignment part one (Azure) general info:

During the assignment you will need to connect to the Azure portal [https://azure.microsoft.com/en-us/features/azure-portal/](https://eur03.safelinks.protection.outlook.com/?url=https%3A%2F%2Fazure.microsoft.com%2Fen-us%2Ffeatures%2Fazure-portal%2F&data=04%7C01%7Cyevgenilo%40cloudzone.io%7C19f77c83eb804d48e42308d99ac21472%7C8b3747c3cccd4b178f18bd610edc86e6%7C0%7C0%7C637710980654416591%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C1000&sdata=Bu9uP5%2Foni0y%2FJf6hzwMJdQFqWtiN8yL%2BOC3vkAO4wg%3D&reserved=0)

1.Create a Virtual network named **testVNET**

                \*In your Virtual Network, in the 2nd task, you will need to add two new subnet that will allow you to host a total of 20 virtual machines, so consider your CIDR accordingly.

2.Create 2 subnets under the newly created Vnet each subnet should be able to host 20 VM’s.

3.Create 2 Windows VM’s ,each VM in different subnet

                \*B2S VM type

                \*Allowed region: North and West Europe

                \*image: Windows server 2016 datacenter -Gen2

\* During the creation process of the VM, find one of the VM’s access its Boot diagnostics, press download a screenshot. Do screenshot of your screen and send it over to me in the end of the assignment.

4. Adjust the Networking of the VM’s to allow RDP access to the instance from your IP.

5. Establish RDP connection to one of the newly created instances that is hosted on the same region as the Recovery Service Vault(**CandRecServ**) and install there AD service.

6. Create a shared folder under disk C:, name it **testshares** and mount it on the second server.

6. Create automatic backup of the instance where the AD service was installed

                \*Automatic backup should take place on the instance **twice a day at 07:00 IL time and 19:00 IL time**

                \*During the configuration of the automatic backup process of the VM you will be requested to work with Recovery Service Vault, once you reach this stage  use the following Vault: **CandRecServ**

7.Create automatic shutdown of the second instance(that does not contain the AD service), every day at 20:00 PM IL time and create a notification that will notify me via email once the server is down:

Questions:

1. Explain what is it Azure platform? In your own words

2. What is it cloud computing? In your own words

3. I have some private servers on my premises, also I have distributed some of my workload on the public cloud, what is this architecture called?

4. Why is Azure Active Directory used?

In the end, please email me with the IP of the server where the AD service was installed together with the screenshot that was done in step 3.

The answer to the questions should be saved in Notepad file within the shared directly(testshares).

In case you was not able to create the shared directory, please add the answers to the email that you will send me in the end.

Greetings on finishing part 1!

**Assignment part two (Linux):**

Your assignment is to set up a website and configure monitoring of its services.

You have two Linux servers:

server 1:

server 2:

Login with:

User:   
Password:

Your assignment is:

1. Install WordPress on server 1, a default blog site is enough.

2. Install Munin on server 2.

3. Set monitoring of WordPress server with Munin server - make sure you can see the metrics on the Munin server’s webpage. Let me know what you would monitor and why.

4. Block ICMP between the two servers.