**Тест по облачным технологиям**

**Краткий ответ:**

1. The cloud storage of Microsoft is called ….

**OneDrive / onedrive / oneDrive / Onedrive**

1. The cloud version of Microsoft Office is called …

**Office365 / office365**

1. A virtualized … allows you to access computer services without regard to where, exactly, the data center is located and the hardware that the services are running on.

**Datacenter / datacenter**

1. Microsoft … provides advanced device management, including management of Windows, Windows Phones, IOS devices, and Androids.

Intune

1. … costs are all hardware components, including cabling, switches, access points, and routers.

**Network / network**

1. … is the ability of a computer application or product to continue to function as the application or product changes in size or volume in order to meet user need.

**Scalability / scalability**

1. A … **cloud** is a cloud‐computing environment in which the organization provides and manages some of the resources in‐house and a third party provides the hosted servers for the organization externally.

**hybrid /Hybrid**

1. With an … infrastructure, you have complete control over the hardware and software that you deploy.

**on-premises / on premises / on premise**

1. Microsoft … a [cloud computing](https://en.wikipedia.org/wiki/Cloud_computing) service created by [Microsoft](https://en.wikipedia.org/wiki/Microsoft) for building, testing, deploying, and managing applications and services through Microsoft-managed [data centers](https://en.wikipedia.org/wiki/Data_center).

**Azure / azure**

1. …is the process of converting data into a format that cannot be read by another user.

**Encryption / encryption**

1. In order to locate different resources, you need to create … machine.

**Virtual / virtual**

1. You can choose … of different size on your virtual machine.

**Disk / disk**

1. In Microsoft Azure creating a cloud service you need to allocate … group for it

**Resource / resource**

1. The service that allows you to create a reserve copy of your services is called …

**Backup / backup**

1. To store information in Azure you need to create a … storage

**Blob / blob**

**Множественный выбор:**

1. What is the minimum version of Internet Explorer needed to ensure that Microsoft Office365 web-based applications have full functionality? (Internet explorer 10)

* Internet Explorer 8
* Internet Explorer 9
* Internet Explorer 10
* Internet Explorer 11
* Internet Explorer 12

1. What are two billing methods that are aimed at organizations and end‐users?

**(**subscription or pay‐as‐you‐go**)**

* Subscription
* Periodic
* Pay-as-you-go
* Pay-as-required
* Monthly

1. You want to deploy an application to the cloud but you want to ensure that the actual data is stored in-house. Which type of cloud should be used? (hybrid)

* dedicated public cloud
* private cloud
* hosted private cloud
* hybrid cloud
* corporate cloud

1. Which funding model should be used to pay for several servers? (CapEx)

* CapEx
* Subscription
* Pay as you go
* OpEx
* SapEx

1. Which two terms describe the possibility of changing the cloud resources based on the required workload and provisioning or deprovisioning resources automatically? (Scalability, elasticity)

* Scalability
* Availability
* Elasticity
* Redundancy
* Security

1. What database term is used to describe the process of applying a backup to a damaged or corrupt database? (Restore)

* Delete
* Restore
* Commit
* Attach
* Execute

1. Choose three types of cloud services (SaaS, PaaS, IaaS)

* SaaS (Software as a service)
* PaaS (Platform as a service)
* CaaS (Category as a service)
* IaaS (Infrastructure as a service)
* OaaS (Operation as a service)

1. What companies provide the most popular cloud services (Amazon, Google, Microsoft)

* Amazon
* Siemens
* Microsoft
* Blizzard
* Google

1. In Microsoft Intune, which administrator manages subscriptions and purchases? (Billing Administrator)

* User Management Administrator
* Password Administrator
* Billing Administrator
* Global Administrator

1. What application in Microsoft Office 365 allows you to create online conferences? (Skype for Business)

* Excel
* Word
* OneDrive
* OneNote
* Skype for Business

1. How can you connect to Azure database?

* SQL Management Studio
* PostgreSQL Admin
* Mongo DB
* PHP Admin
* SQL Server

1. What are the categories of Machine learning models? (regression, classification)

* Regression
* Classification
* Analysis
* Categorization
* Progress

1. In machine learning models dataset has to be divided into the following parts (training, testing).

* Categorizing
* Training
* Simulating
* Testing
* Visualizing

1. What metrics are used for evaluating ML model?

* Precision
* Recall
* K-measure
* Accuracy
* N-folder

1. What machine learning models you know? (random forest, k-nearest neighbors, linear regression)

* Random forest
* K-nearest neighbor
* Current vector machine
* Linear regression
* Fuzzy trees

Вопросы да / нет

1. Microsoft Office 365 is categorized as Infrastructure as a service (IaaS). (false)

**true / false**

1. The previous name of Microsoft OneDrive is SkyDrive. (true)

**true / false**

1. Capital Expenditures (CapEx) are funds used by an organization to acquire or upgrade physical assets, such as servers, networking equipment, and storage. (true)

**true / false**

1. Scalability is the ability of a computer application or product to continue to function as the application or product changes in size or volume in order to meet user need. (true)
2. Microsoft Azure is a cloud service that allows only to keep users’ data. (false)

**true / false**

1. The shared public cloud is used by multiple organizations and is hosted on an infrastructure, where the architecture, customization, and some of the security are designed and managed by the provider. (true)

**true / false**

1. VPN is an extension of SSL, which is supported by the Internet Engineering Task Force (IETF) so that it could be an open, community‐supported standard that could then be expanded with other Internet standards. (false)

**true / false**

1. It is possible to deploy ASP.NET web-application in Microsoft Azure portal. (true)

**true / false**

1. Backup services allows to restore data or applications in order of errors that occurred. (true)

**true / false**

1. Health monitoring allows to find different problems in the cloud services. (true).

**true / false**

1. RDP file allows to connect virtual machine with a network. (false).

**true / false**

1. Machine learning Azure Studio allows to create ML model with the building blocks. (true)

**true / false**

1. In Machine learning model a dataset is usually divided into training and measuring parts. (false)

**true / false**

1. L-forest is one of the machine learning algorithms. (false)

**true / false**

1. It is possible to choose columns in the dataset used for training. (true)

**true / false**

1. It is no possible to use Python and R scripts in ML Azure Studio (false)

**true / false**

**Вопросы на соответствие**:

1. Provides advanced device management, including management of Windows, Windows Phones, IOS devices, and Androids – **Microsoft Intune**

Delivers access management from the cloud and existing on-premises deployment – **Microsoft Azure active directory**

Provides protection for company assets with security, compliance, and regulatory requirements by using encryption, identity, and authorization to secure files and email – **Microsoft Azure Right Management**

1. A type of the cloud used by multiple organizations and is hosted on an infrastructure, where the architecture, customization, and some of the security are designed and managed by the provider – **the shared public cloud**

A type of the cloud that is contained within the corporate network and is controlled by the corporate IT department – **the private loud**

A type of the cloud provided by a third‐party company but is accessible only by users within a specific organization – **the hosted private cloud**

A type of the cloud that is used in a cloud‐computing environment in which the organization provides and manages some of the resources in‐house and a third party provides the hosted servers for the organization externally – **the hybrid cloud**

1. It is the most basic form of cloud computing. It provides software and associated data (such as databases or user documents) that is hosted on the cloud – **Software as a Service (SaaS)**

It provides the computing platform (such as networks, servers, and storage) on which the organization can host its own applications – **Platform as a Service (PaaS)**

A service model that provides the hardware for servers, storage, and networking—usually in the form of a standardized virtual server environment – **Infrastructure as a Service (IaaS)**

1. A [word processor](https://en.wikipedia.org/wiki/Word_processor) that allows creating and editing documents – **Microsoft word**

It is a [program](https://en.wikipedia.org/wiki/Computer_program) for free-form [information gathering](https://en.wikipedia.org/wiki/Information_gathering) and [multi-user collaboration](https://en.wikipedia.org/wiki/Collaboration_tool) – **Microsoft OneNote**

It is a [file hosting service](https://en.wikipedia.org/wiki/File_hosting_service) and [synchronization service](https://en.wikipedia.org/wiki/File_synchronization) operated by [Microsoft](https://en.wikipedia.org/wiki/Microsoft) as part of its [web version of Office](https://en.wikipedia.org/wiki/Office_Online) – **Microsoft OneDrive**

It is [enterprise](https://en.wikipedia.org/wiki/Enterprise_software) [instant messaging](https://en.wikipedia.org/wiki/Instant_messaging) software developed by [Microsoft](https://en.wikipedia.org/wiki/Microsoft) as part of the [Microsoft Office](https://en.wikipedia.org/wiki/Microsoft_Office) suite. It is designed for use with the on-premises [Skype for Business Server](https://en.wikipedia.org/wiki/Skype_for_Business_Server) software, and a [software as a service](https://en.wikipedia.org/wiki/Software_as_a_service) version offered as part of [Office 365](https://en.wikipedia.org/wiki/Office_365) – **Skype for business**