#CloudViva is a fail-safe IT infrastructure, created on the basis of modern software and hardware from leading global manufacturers, hosted in Viva Armenia's own data centers (Yerevan), and meeting a safety level of 99.95%

Computing System

The computing complex is represented by Huawei CH121v5 blade servers installed in the Huawei Fusion Server E9000 chassis.

The power supply, cooling units and network input and output fabrics are duplicated.

Virtualization segments are formed in the basis of computing systems.

Segment Name	VC
Site	Yerevan
Equipment type	Huawei
Type pf physical **CPU**	CPU: Xeon Gold 5118 2 x 24 Cores 2,3Ghz
Number of **MIPS** per **vCPU**[1]	3825

[1] The CPU performance indicators of the system are measured by the 7 ZIP/12 MB software (runs from the virtual machine OS).

Data Storage

Data storage systems (DSS) are used for data storage:

- **Dell EMC Unity 350F** SSD drives (All-Flash array)
- **HPE 3PAR 8400** SSD drives (All-Flash array)
- **HPE MSA 2062** HDD drives (SAS 10K LFF HDD)
- **DellEMC ME5024** SSD drives (All-Flash array)

Each system has two independent controllers, which ensures operability both during routine maintenance and in case of failure of a separate controller. The power and cooling units of each controller are duplicated.

Network Infrastructure

The network part of the infrastructure is based on a VPN VXLAN factory, which allows to flexibly develop and scale network services. Physically, the network equipment is built on two-tier

switches of the Cisco Nexus 5600 series.

Virtualization

VMware vSphere 7.0.3 is used as a virtualization platform. To manage the virtual infrastructure, customers are provided with a personal self-service web portal based on the VMware vCloud Director 10.5 solution.

VMware NSX 6.4.14 is used as a network virtualization and security platform for the virtual infrastructure. The management interface is integrated with vCloud Director, which allows you to independently manage the solution from a single web interface.

Backup

Veeam Backup & Replication 12.1 is used as a backup system. The solution offers data backup and recovery.