2. tétel

I am the system integrator of this company. You have asked me to make the modernization of the Information Technology System in your institution. I have planned it and I would like to present my plans if you like it. (Now I would like to present my concepts.)

When I’ve made the physical topology, I‘ve paid attention to the physical facilities of the institution. That means we need to supply three classrooms with ten plus one computers, two server rooms with computers and the admin device. So I would like to improve the hardware system in your school.

I’ve constructed the logical topology, how devices appear connected to the user. I suggest modernizing the wired network and create the wireless network to access the Internet everywhere and (at) any time inside the institute, not only for the employees but also for the students. (in a limited form on all platforms, from PC-s, notebooks to mobile devices).

I advise to use cloud services, e. g. the Microsoft Azure which is a flexible platform. It will be possible to start virtual servers, create and install applications in any language or device quickly and conveniently.

This guide shows you how to deploy the Windows 10 operating system in a school environment. I recommend to deploy Windows 10 to all the devices of the school in order to get an easily useable and safe system. The network consists of less subnetworks and it is **solved (megoldva)** by routers and switches. In each classroom there are 10 student laptops and a teacher device. (*Also, you need a good anti-virus program, e.g. NOD32 Next, I am planning to install 3 subnetworks and I want to solve it by routers and switches. It is a good idea to have desktop computers or laptops in all classrooms.)*

The devices are connected by multiple subnets. In the classrooms, there is wired network but in other rooms, such as staff room, wireless network is advisable. It is very important to have a wideband internet to facilitate video watching for teaching purposes. It is very useful because it ensures to access internet without impediments and continuously.

Then I would deploy Microsoft Office 365 and Microsoft Azure AD (Active Directory). The next step is Microsoft Intune which provides mobile device management, mobile application management, and PC management capabilities from the cloud. I recommend to have Windows Update and Windows Store for Business in the cloud service because they are very useful. In the configuration process I would use the Windows 10 admin device. This is the device you use for your day-to-day job functions. It’s also the one you use to create and manage the Windows 10 and app deployment process. You install the Windows ADK and MDT (Deployment Workbench) on this device. The configuration process also requires the faculty and student devices. Faculty devicesare the devices that the teachers and other faculty use for their day-to-day job functions. You use the admin device to deploy (or upgrade) Windows 10 and apps to these devices. Student deviceswill be used by students. You will use the admin device deploy (or upgrade) Windows 10 and apps to them.