



### ► Network services :

The set of actions that lead to the installation, use, troubleshooting, management and maintenance of an IT infrastructure is called network services.

Today, all areas related to businesses, public and private organizations, large and small companies need to set up a network.

### ► **Data Sharing and Hardware:**

Using a network platform, data can be shared between employees, for example, a file is accessed by all systems so that several network users can share their files in it instead of using USB and hard drives that may be infected to transmit data. Also, by using the network platform, each system can separately share different hardware resources to connect to the device it needs. This saves on hardware maintenance costs.

### ► **Benefits of network setup :**

Setting up a network platform has many benefits for companies and organizations, in this section we will mention some of the most fundamental ones:

#### ► **Centralized management:**

Connecting all systems to one another as well as their integrated and centralized management and applying different access levels for all users

### ► Connecting branches and agencies:

Companies and organizations that have different branches in Iran and even outside Iran can connect them all using the network platform and have total control over the data of all branches at every moment.



### ▶ Setting up for remote work :

The network platform allows the employer to be able to hire specialized personnel from anywhere in the country; Also, according to the existing conditions to maintain businesses and prevent companies from closing down, it is better to use set up remote work. In addition, there is a perception that working remotely saves on the cost of providing a large space for the company and its ancillary costs



## ► Backup :

Preserving information and storing it in several different places to prevent data loss is one of the most important needs of any organization .

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### ► Network Security :

One of the most important parts of network services is its security. Protecting the company's data and information against attacks and preventing data theft or destruction, protecting systems and servers against being infected by viruses, etc. are things that should be considered by the employer.

There are a variety of hardware and software files used for the security of the network. Such as Kerio, FortiGate, ASA, F5 and ... firewalls.

## ► Virtualization :

Before the advent of virtualization technology, a separate server was provided for each network service. This increased the number of servers, and led to increasing maintenance costs, electricity and cooling costs, and wasting hardware resources. Because one service, for example, used 30 percent of the server hardware at last, and the rest of it remained free. Virtualization allows us to have multiple servers virtually on one physical server and to set up different services separately on each virtual server. In fact, by purchasing one physical server that can support virtualization, we avoid paying unnecessary costs for purchasing and maintaining multiple servers



**INTRODUCING  
THE ACTIVE AND  
PASSIVE  
PART OF THE  
NETWORK**



## ► Network operating systems :

Linux and Microsoft operating systems are very popular in the network world and are installed on computers and servers. These two operating systems play the role of servers in the network .



### ► VOIP service :

To reduce the cost of telephone calls, having an internal phone and telephone secretary, telephone conferencing, etc., we use VoIP service in both hardware and software (according to the needs and budget of the organization). This service allows free calls between branches through the internal network platform and reduces telephone costs .

### ► Network communication platform :

Cisco and MiktoTik offer various equipment in the market to set up the network infrastructure, which is purchased and launched according to the needs and budgets of the companies (Cisco equipment is utilized for large organizations and Mikrotik equipment is used for small ones).

Network cabling, installation of ducts, trunks and network nodes, setting up a server room and rack arrangement, installation of switches, routers, firewalls, servers and other network equipment are the services of setting up a network platform.







The senior experts of Katranet corporation have a high level of mastery of international topics offered by the world's major companies such as Microsoft, Cisco, etc., and have succeeded in obtaining international certifications from Cisco, Microsoft, Mikrotik, Linux, SANS, and ISO 27001.... This up-to-date knowledge has a great impact on setting up a standard network.

# KATRANET CORPORATION



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**Katrant engineering team with up-to-date technical knowledge in the field of security and network is able to set up a network platform in different companies and organizations. In addition to the aforementioned technologies, the services offered by Katranet include the following :**

- Providing network consultation (the most optimal method of implementing a network according to an organization's budget)
- Fluent in state-of-the-art and modern architectures for network setup
- Maintaining and supporting the network platform both online and in person, high quality service, response and troubleshooting in the fastest possible time, documenting, managing and controlling the network
- Providing security advisement (security solutions)
- Providing Farnizek services, security, network penetration testing, website, etc. and a complete report to the employer
- Consultancy on purchasing hardware and having an economic view and foresight in purchasing equipment
- Active services, installation and commissioning of various equipment and network services and security (server setup, all types of routers, firewalls, etc.)
- Updating the operating systems of all equipment in the organization as well as replacing the hardware if needed
- Passive services including cabling, duct wiring, server room setup, rack arrangement and etc.
- Setting up network virtualization
- Setting up VoIP software and hardware
- Setting up a regular backup service

