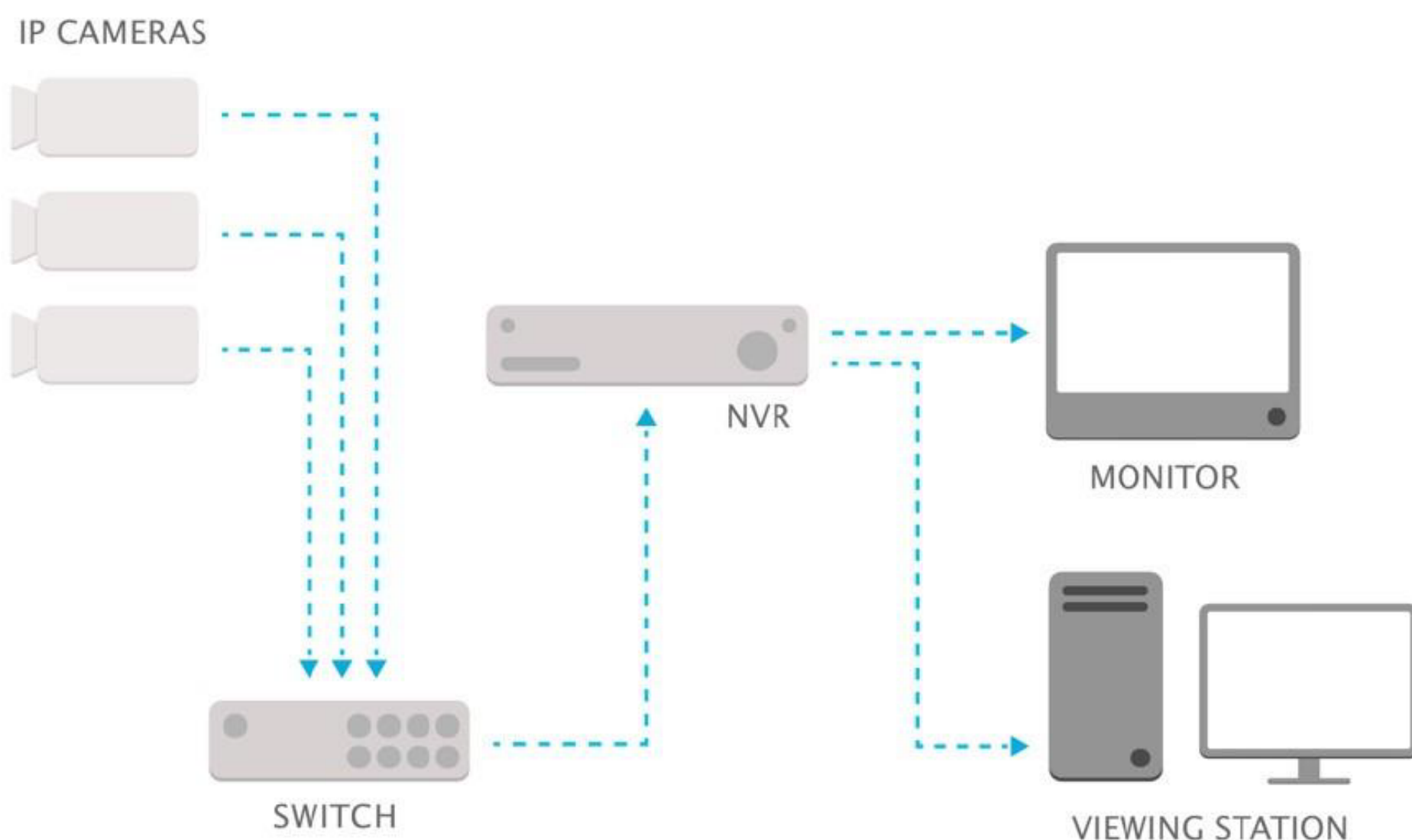# SECURITY CAMERAS FOR SUSTAINABLE SECURITY SYSTEMS

GRADUATION PROJECT

ABSTRACT

In cooperation with King Fahad Air Base in Taif, Saudi Arabia, we will work on our project. The purpose of the project is to create a security cameras system that using the latest technologies in this field, by using an internet protocol (IP) camera with power over ethernet (PoE) to connect the camera over a standard Ethernet cable eliminates the need for AC/DC power supplies, and the cameras will supporting smart motion detection, night vision.

This security system employs main devices: Cisco Switch to connect all the camera in the same local area network. Network video recorder (NVR) to watch the video recording of any camera in local area network.

OBJECTIVES

The main objective of this project is to design and development of a security system supporting large number of cameras in different building. As such partial objectives of this project can be summarized in objective tree.

The objective is to connect IP camera security systems work via the internet protocol (IP) and network video recorder (NVR) to PoE Cisco switch, and deliver professional 4K recording, and smart motion detection, connect the camera recording system to the network and activate it to every camera has an IP address. Implementation the latest technology in surveillance cameras system field, which working without any interruption with backup system.

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