



# Boosting IT Infrastructure at DUVASU University with Nebula Cloud Solution

## Overview

DUVASU University faced some serious IT infrastructure challenges on its sprawling 800-acre campus. With a mix of single and two-story buildings housing various academic and administrative departments, the existing network infrastructure struggled to provide consistent WiFi coverage and faced frequent connectivity issues. This hampered the university's ability to offer a seamless digital experience. In order to overcome these hurdles, DUVASU decided to partner with ACME Digitek, a local vendor, who recommended using Zyxel Networks' networking solutions. This case study showcases how advanced networking technology, coupled with a reliable vendor, can effectively address complex IT challenges in large educational institutions.

## Challenges

Before the upgrade, DUVASU encountered several significant challenges. The primary issue was inconsistent WiFi coverage, resulting in weak or no signal in many areas. Additionally, the university faced frequent slow connectivity, often due to issues with their Internet Service Provider (ISP). Managing the existing network infrastructure was a complex and time-consuming task, as the IT team had to handle multiple devices across different platforms. DUVASU needed a comprehensive solution that could ensure reliable, high-speed connectivity, simplify network management, and accommodate future growth. They required a system that allowed for centralized management to streamline operations and reduce the burden on their IT staff.

## Solutions

To tackle these challenges, DUVASU implemented a range of Zyxel Networks' networking devices orchestrated by ACME Digitek. The key components included the XGS4600-32F L3 Aggregation fiber switch, along with GS1920-24HPv2 and GS1920-8HPv2 smart managed PoE switches. They also installed the ATP800 firewall and NWA1123ACv3 WiFi access points.

### Customer

DUVASU University

### Industry

Education

### Location

UP, India

### Partner

ACME Digitek

## Customer Background

DUVASU University, located in Mathura, is a top-notch veterinary institution. It was established on October 25, 2001, by the Government of Uttar Pradesh under U.P. Act No. 27 of 2001. Being the first of its kind in the state and the fourth in the country, it evolved from the U.P. College of Veterinary Science & Animal Husbandry, Mathura, which now serves as its main constituent college.



All of these devices were managed through the Zyxel Nebula cloud networking solution, which facilitated centralized management and simplified network operations.

The deployment strategy involved connecting the buildings and departments using Optical Fiber Cables (OFC), which provided a stable and high-speed network backbone. The XGS4600-32F switch served as the core of the network, while the GS1920 series smart managed PoE switches extended connectivity throughout the campus. The ATP800 firewall was deployed at the network edge to ensure robust security. NWA1123ACv3 access points, were placed to ensure optimal WiFi coverage. With the Nebula cloud networking solution, the IT team could manage all devices from a single interface, significantly reducing complexity and enhancing operational efficiency. This comprehensive setup guaranteed reliable and easy-to-access connectivity across the campus.

## Results

The implementation of Zyxel Networks' products, with the expertise of ACME Digitek, brought about a significant transformation in DUVASU's IT infrastructure. The university now enjoys enhanced connectivity, with reliable WiFi available throughout the entire campus. The network's scalability and flexibility allow it to meet the institution's future needs. The firewall enhances security, protecting the network from potential threats. Centralized management through the Nebula cloud networking platform has been a game-changer. It enables the IT team to monitor and manage all network devices from a single platform, significantly reducing operational complexity and improving response times.

## Product List



- NWA1123ACv3 802.11ac Access Point



- XGS4600-32F L3 Aggregation Fiber Switch
- GS1920-8/24HPv2 Smart Managed PoE Switch



- ATP800 Firewall



