nub8

PepsiCo

*Hybrid Cloud Architecture
and Implementation*

Introduction

About PepsiCo

PepsiCo Inc. is a multinational company dedicated to manufacture, market, and distribute snack foods, beverages, and other products.

The Challenge

Hybrid cloud architecture implementation, which allow **Drinkfinity** production plant operations and administrative departments to connect securely to the internet, as well as allowing production lines to backup critical information in a secure and automated way to AWS storage (S3), in order to maintain a secure, stable and reliable cloud-based backup repository to troubleshoot failures or outages remotely presented on any machine in your production plant and IT infrastructure in an permanent and efficient way.

Solution

Hybrid Cloud Architecture and Implementation

Through the hybrid cloud architecture and implementation, all the network and security components were standardized, achieving the interconnection of all the production line's machines, administrative and operational employees. On the other hand, through the **AWS service Storage Gateway** information transfer and back up is done securely allowing operators and manufacturing systems vendors to check production line machines status remotely.

Architecture components:
- Routers, Firewalls y Switches – Juniper Networks
- WiFi Cloud Managed – Mist Systems
- Storage Server – Hewlett Packard Enterprise
- Storage Gateway – Amazon Web Services (AWS)
- S3 buckets - Amazon Web Services (AWS)
- Internet Links

Hybrid Cloud Architecture
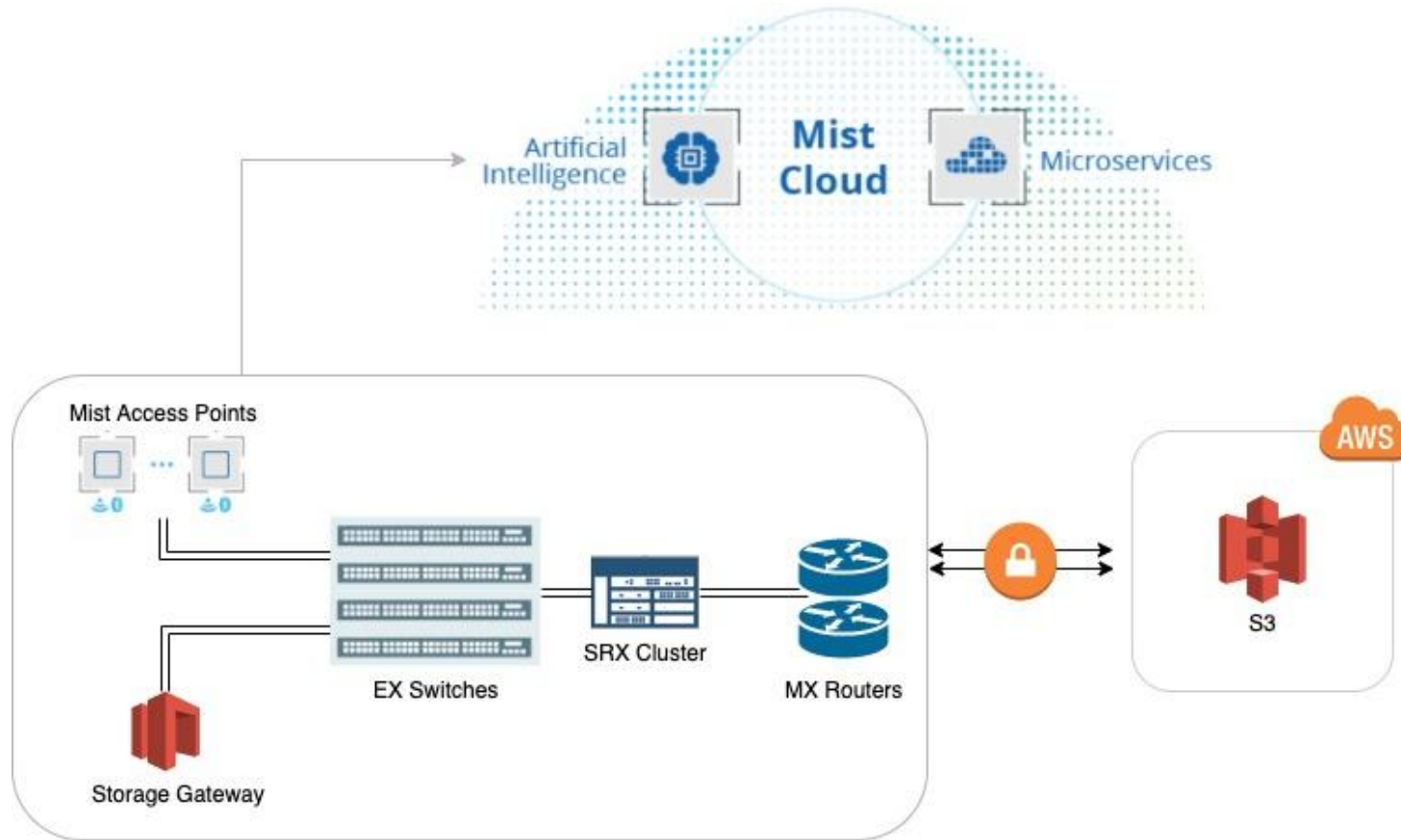
Security Backups relying on **AWS Storage Gateway** simplifying management activities and reducing storage costs in the hybrid cloud.

WiFi Cloud Managed architecture which offers mobility, security, IT processes automation and improved user experience.

Networking y **security** architecture to interconnect and protect information and infrastructure assets.

The Benefits

✓ Networking and security equipment standarization

✓ On-premises datacenter integration to the AWS public cloud securely, ensuring information integrity and confidentiality.

✓ Through WiFi Cloud Managed solution, employees can carry out their activities from anywhere within their offices, always obtaining the best experience.

✓ IT processes are now more efficient, connectivity problems are solved quickly and effectively, improving the user experience, all thanks to the artificial intelligence technology that Mist Systems has embedded.

✓ Network connectivity is now more stable and reliable; therefore, the manufacturing systems vendors can provide remote support in a permanent, secure and efficient way.

✓ Integrity and confidentiality of all the information that is transferred to AWS through encryption in transit and at rest techniques.

✓ Availability and centralized visibility of critical production plant information.

✓ Timely and convenient support by Nub8, to continuously improve and optimize cloud environments.