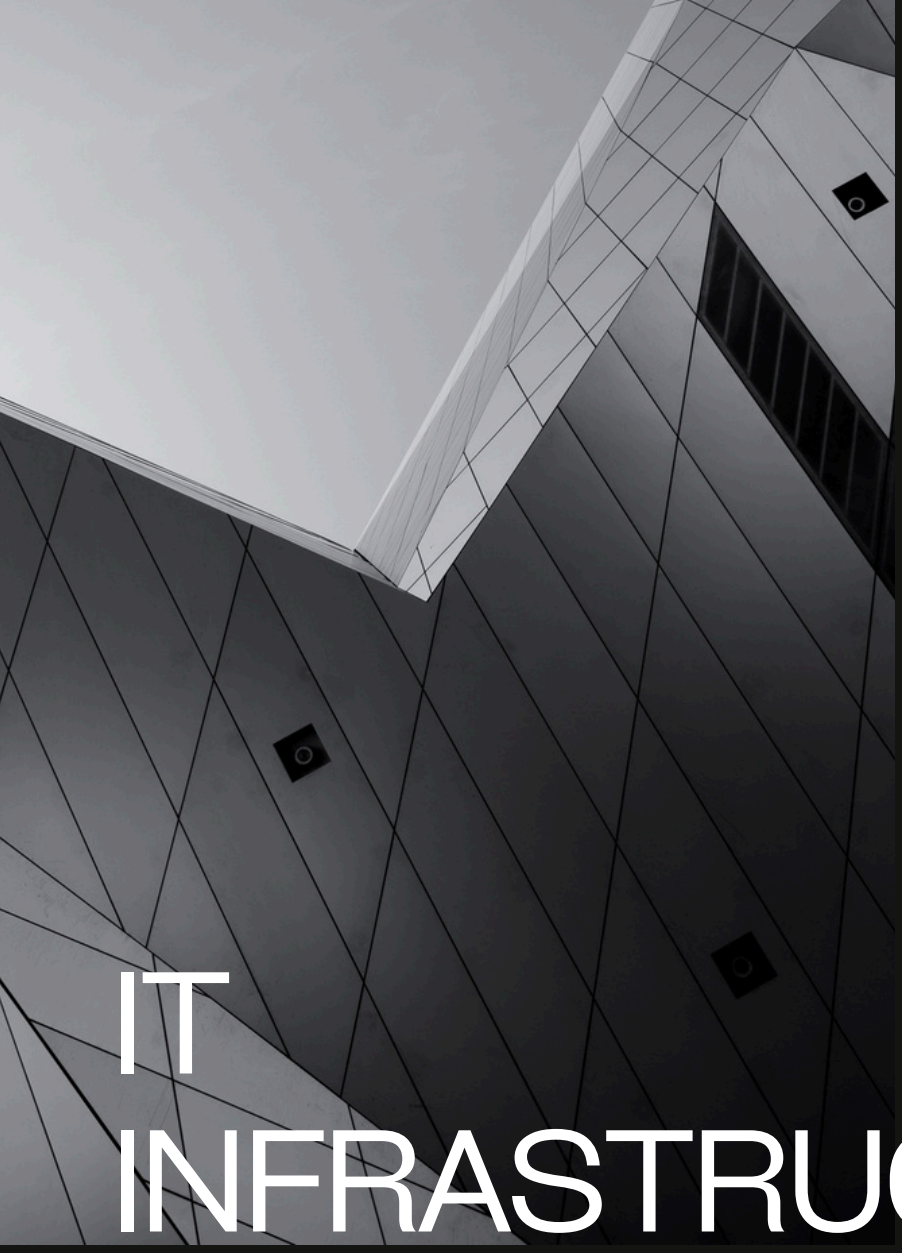

AIKY
CONSULTING

MY CURRICULUM VITAE

IT INFRASTRUCTURE ARCHITECT

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AIKY
CONSULTING

INTRODUCTION

IT INFRASTRUCTURE ARCHITECT

As an IT solutions and systems integration specialist, I have successfully managed large-scale projects, ensuring complex infrastructures meet client needs. My expertise spans virtualization (HyperV, VMware, Azure Stack HCI), storage solutions (Dell EMC, Huawei, HPE), and backup systems (Veeam B&R, PowerProtect, DataDomain). I am skilled in networking, configuring Cisco, Huawei, and Dell OS10 systems, with a strong grasp of protocols like BGP and VLAN. With a client-focused approach and a commitment to staying updated on tech trends, I consistently deliver high-quality solutions, earning excellent client feedback.

TIMELINE

I leverage my expertise in IT infrastructure and systems integration to deliver scalable, high-performance solutions. With experience across multiple industries, I focus on solving complex challenges and driving success for my clients.

AIKY

2022 - NOW

CEO of AiKY Consulting
Specializing in the design and implementation of IT infrastructure solutions. I help businesses optimize their IT environments through cutting-edge technologies in virtualization, storage, and networking. From design to deployment, I deliver scalable, high-performance systems tailored to client needs.

AVA6

2019 - NOW

IT Infrastructure Engineer
Expertise in virtualization (HyperV, VMware, Azure Stack HCI), storage management (Dell EMC, Huawei, HPE), and backup/recovery solutions (Veeam, PowerProtect, DataDomain). Skilled in configuring networks (Cisco, Huawei, Dell OS10) with advanced knowledge of BGP, VLAN, and LAG. Proficient in maintaining IT infrastructure performance using IPM2 methodologies, ensuring data protection and operational continuity. Consistently receive excellent client feedback due to a client-focused approach and staying updated on the latest IT advancements.

DELL TEAM

2023 - NOW

IT Infrastructure Engineer
As a specialist for Dell's Professional Services team, I provide expertise in specific areas of IT infrastructure and systems integration. Dell relies on my advanced skills in virtualization, storage management, and networking to ensure seamless project execution and optimized performance. I am known for delivering high-quality solutions and consistently receiving positive client feedback.

EXPERIS

2015 - 2019

System & Network Administrator
I provided technical services to major aerospace and IT companies. My role included developing automation scripts, managing projects like data digitalization, implementing hardware integration solutions, and offering on-site expertise. I also provided L1/L2 helpdesk support, managed user accounts in AD, SAP, and UNIX, and supported various applications such as O365 and CITRIX.

FRANCOIS
YANG

EDUCATION

I hold a Master's in Computer Science from IPI, where I graduated as the top of my class (2019-2021). I also completed a Bachelor's in IT Engineering at IPI (2018-2019), achieving major promo status. Both degrees are certified under the French RNCP (Levels 7 and 6), with a focus on systems, networks, and data management. Additionally, I earned a BTS in IT Systems from Adrar Digit@l Academy (2016-2018) and a BAC in Network Systems and Telecommunications from Lycée Saint-Paul Bourdon Blanc (2010-2013). My academic background is strengthened by extensive technical certifications and hands-on experience in the IT field.

Master 2

2019-2021 - Institut Poly Informatique
TITRE CERTIFIÉ DIRECTEUR DES PROJETS INFORMATIQUES inscrit au RNCP au Niveau 7 - code NSF 326, par décision d'enregistrement de France compétences du 10-11-2021, Fiche RNCP 36009.

Bachelor

2018-2019 - Institut Poly Informatique
TITRE CERTIFIÉ ADMINISTRATEUR SYSTÈMES, RÉSEAUX ET BASES DE DONNÉES inscrit au RNCP au Niveau 6 - code NSF 326, par décision d'enregistrement de France compétences du 19-05-2021 pour 5 ans, Fiche RNCP 35594

BTS SIO

2016-2018 - Adrar Digit@l Academy
BTS services informatiques aux organisations option A solutions d'infrastructure, systèmes et réseaux (SIO SISR) RNCP35340

BAC SEN

2010 - 2013 - Lycée Saint-Paul Bourdon Blanc
BAC Systèmes Electroniques et numériques

PROFESSIONAL CERTIFICATIONS

I have earned multiple certifications that validate my expertise in areas such as IT infrastructure, virtualization, storage, and network management. These certifications highlight my ability to design, implement, and manage complex systems while staying updated with the latest industry standards and technologies. My commitment to continuous learning ensures that I consistently deliver innovative solutions tailored to client needs.

HUAWEI

HCIE - IN PROGRESS
Huawei Certified ICT Expert

HUAWEI

HCIP - IN PROGRESS
Huawei Certified ICT Professional

HUAWEI

HCIA - IN PROGRESS
Huawei Certified ICT Associate

DATACORE

DCIE - 2023
DataCore Certified Implementation Engineer

DELL Technologies

ISMF - 2023
Dell Information Storage and Management Foundations

DELL Technologies

DES-1221 - 2023
Specialist – Implementation Engineer, PowerStore Solutions

DELL Technologies

DEA-1TT5 - 2022
Associate - Information Storage and Management v5

vmware

VTSP HCI - 2020
Hyper-Converged Infrastructure

CISCO

CCNA V7 - 2020
Cisco Certified Network Associate

vmware

VTSP BC - 2020
Business Continuity 5.8

vmware

VTSP CF - 2020
Cloud Foundation 4.0

vmware

VTSP SV - 2020
Server Virtualization 2020

AZURE STACK HCI

As a dedicated IT professional, I had the privilege of leading an exceptional project for an esteemed international bank. Our goal was to implement an advanced solution to enhance the bank's data center infrastructure and ensure high availability across geographically distributed locations, specifically between Geneve and Zurich.

To achieve this objective, we partnered with Dell Technologies and leveraged the power of Azure Stack HCI to implement a cutting-edge Stretch Cluster solution. The architecture comprised of eight robust Dell Technologies AX-750 nodes, which provided the necessary compute and storage capabilities to handle the bank's demanding workloads with ease.

In order to facilitate lightning-fast data transfer and minimize latency, we implemented RDMA over RoCE (Remote Direct Memory Access over RDMA Converged Ethernet). This technology, combined with the powerful Dell Technologies AX-750 nodes, enabled us to leverage the advantages of both RDMA and RoCE, ensuring efficient data movement and low latency within the stretched cluster environment.

To establish a reliable and scalable network infrastructure, we incorporated four high-performance Dell Technologies Switch S5224 devices. These switches, designed to meet the demanding needs of modern data centers, played a vital role in connecting and managing the communication between the Dell Technologies AX-750 nodes, ensuring seamless data flow and maintaining optimal performance across the entire cluster.

By implementing this Dell Technologies Azure Stack HCI Stretch Cluster solution, we successfully addressed the bank's requirements for geographically distributed high availability. The data centers in Geneve and Zurich seamlessly functioned as a single logical entity, allowing for failover and data redundancy in case of any localized disruptions.

PROJECT HIGHLIGHTS

VXRAIL HCI STRECH CLUSTER

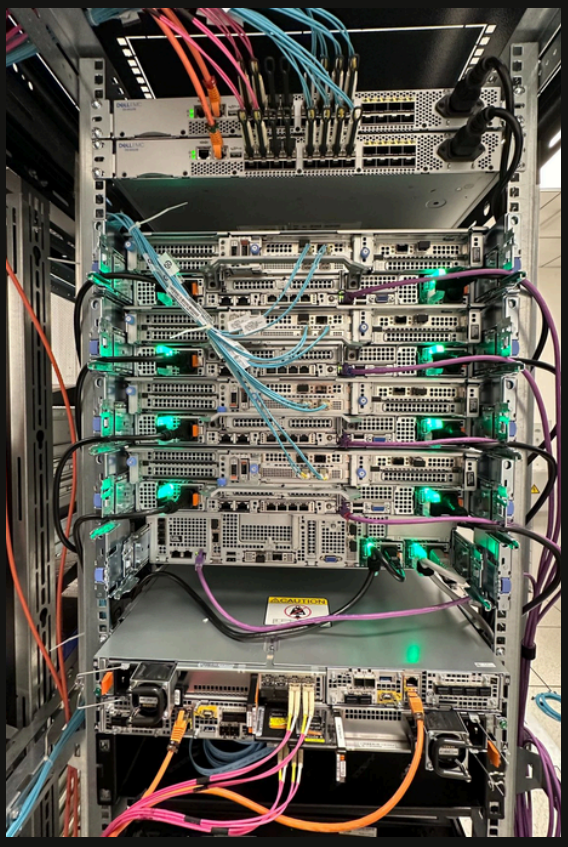
In a recent high-impact project for a customer, I spearheaded the integration of a 8-node VxRail stretch cluster and supervised the migration of VMs, showcasing my proficiency in complex IT infrastructure projects. My role encompassed coordinating in-rack installations and server cabling in dual server rooms, guiding the client in network switch configurations based on my recommendations, and ensuring compatibility with existing systems like Rubrik and the Disaster Recovery Server.

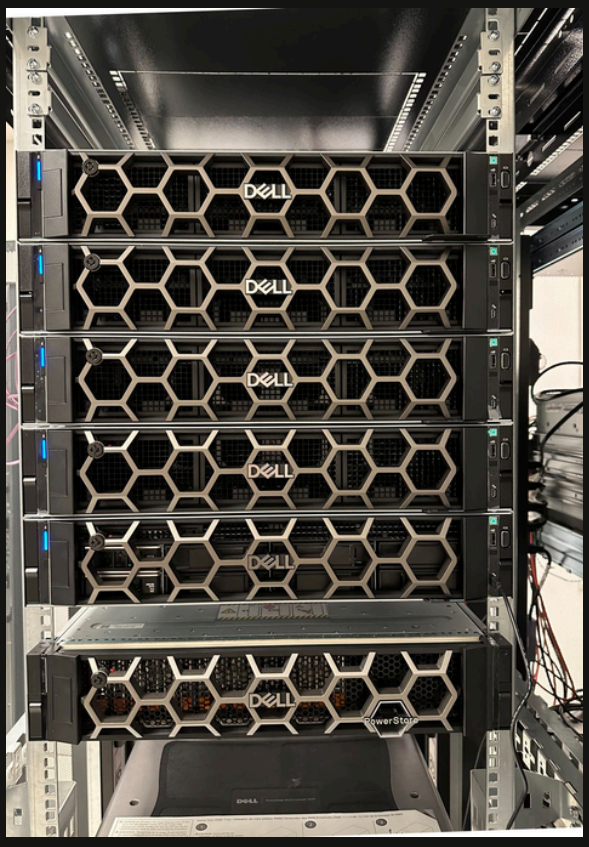
I was responsible for validating the target infrastructure, developing a migration methodology, configuring IDRAC, updating ESXi and vCenter, and deploying a Witness server. The project's technical aspects involved initializing and updating nodes across two rooms, configuring VLANs, implementing VxRail best practices, and setting up vCenter. I also handled the installation and configuration of Dell Open Manage and the creation of a new template in vCenter.

A significant phase of the project was resilience testing, simulating node and room losses, followed by detailed documentation of the recovery process. I led the pilot migration of production VMs to the new cluster, utilizing Storage vMotion and Cross vCenter migrations, and guided the client in updating VMware tools and VmHw.

PROJECT HIGHLIGHTS

VMWARE POWERSTORE





In a recent infrastructure deployment, I oversaw the integration of four new ESXi servers equipped with high-performance processors and DDR5 memory for optimal computing power. A key component of this project was the implementation of a PowerStore 500T storage system, designed to handle both block and file services efficiently. This versatile storage solution provided the client with high storage capacity, flexibility, and performance to support a variety of workloads, ranging from virtual machines to databases.

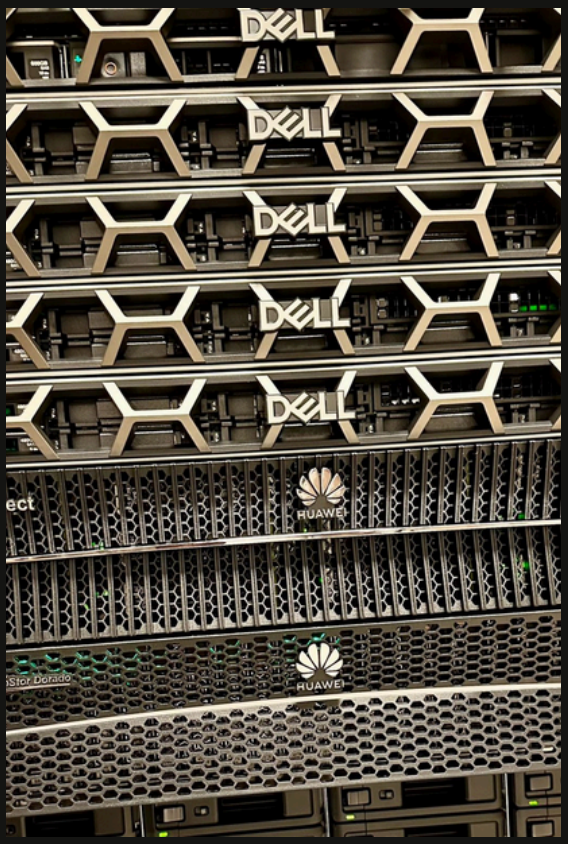
The PowerStore 500T is particularly well-suited for environments that demand flexibility and scalability. I configured it to ensure seamless data flow between the compute resources and the storage, optimizing both the block and file storage capabilities. This storage system also allowed for dynamic scalability, ensuring the infrastructure could grow in line with the client's future needs, all while maintaining high availability and data integrity.

Additionally, I leveraged PowerStore's advanced data reduction features, including inline deduplication and compression, to optimize storage efficiency and minimize the physical footprint. These features significantly reduced storage overhead without compromising performance. The system's intelligent automation streamlined storage management, allowing for simplified administration and faster deployment of new workloads.

For the SAN infrastructure, I configured the 32 Gbps switches, ensuring fast, reliable connectivity between the storage and the compute layers. This involved precise zoning and aliasing to maintain a highly available, fault-tolerant environment. Finally, meticulous attention was given to the cabling, organizing it for optimal performance and ease of maintenance.

PROJECT HIGHLIGHTS

VMWARE HUAWEI



In a recent deployment, I implemented an OceanStor Dorado 3000 V6 Full Flash NVMe storage system, equipped with 64 TB of high-performance storage dedicated to hypervisors. The Dorado 3000 V6's full flash NVMe architecture ensures ultra-low latency and high throughput, providing the performance needed to support demanding virtualized environments. This setup was particularly well-suited for handling virtual machines with high IOPS requirements, delivering consistent, reliable performance for compute-heavy workloads.

In tandem with the Dorado system, I also deployed an OceanProtect X3000 V6 storage solution, integrating 82 TB of capacity dedicated to backup operations. This system was configured to work alongside a dedicated Veeam backup server, ensuring fast, reliable backup and recovery processes. The OceanProtect X3000 V6 is optimized for long-term data retention and offers advanced data protection capabilities, ensuring the client's critical data is securely backed up and easily recoverable in the event of a failure or disaster.

One of the standout features in this setup was the efficiency of the deduplication capabilities. The Dorado 3000 V6 demonstrated a deduplication ratio of 2.01:1, effectively reducing the amount of stored data and maximizing storage utilization for the hypervisor workloads. On the backup side, the OceanProtect X3000 V6 delivered an impressive deduplication ratio of 7.34:1, greatly minimizing the storage footprint needed for backups while still ensuring data integrity and rapid recovery times.

These storage systems not only enhanced the overall performance of the infrastructure but also provided significant cost savings by optimizing storage usage and reducing the physical footprint required for both primary and backup data. The seamless integration with the hypervisors and Veeam backup server further streamlined operations, ensuring that both live workloads and backups could be managed efficiently and securely.

PROJECT HIGHLIGHTS

HUAWEI HYPERDETECT

As a consultant, I have successfully deployed the latest Huawei OceanStor Dorado 5000 v6 SAN solution with the cutting-edge HyperDetect feature. This implementation marks a significant milestone as it is the first of its kind in the entire southwestern region.

As a consultant, I have successfully deployed the latest Huawei OceanStor Dorado 5000 v6 SAN solution with the cutting-edge HyperDetect feature. This implementation marks a significant milestone as it is the first of its kind in the entire southwestern region.

HyperDetect is an advanced detection capability developed by Huawei to enhance the security and efficiency of your storage system. Leveraging artificial intelligence, particularly machine learning, HyperDetect continuously monitors the storage environment in real-time, automatically identifying potential anomalies.

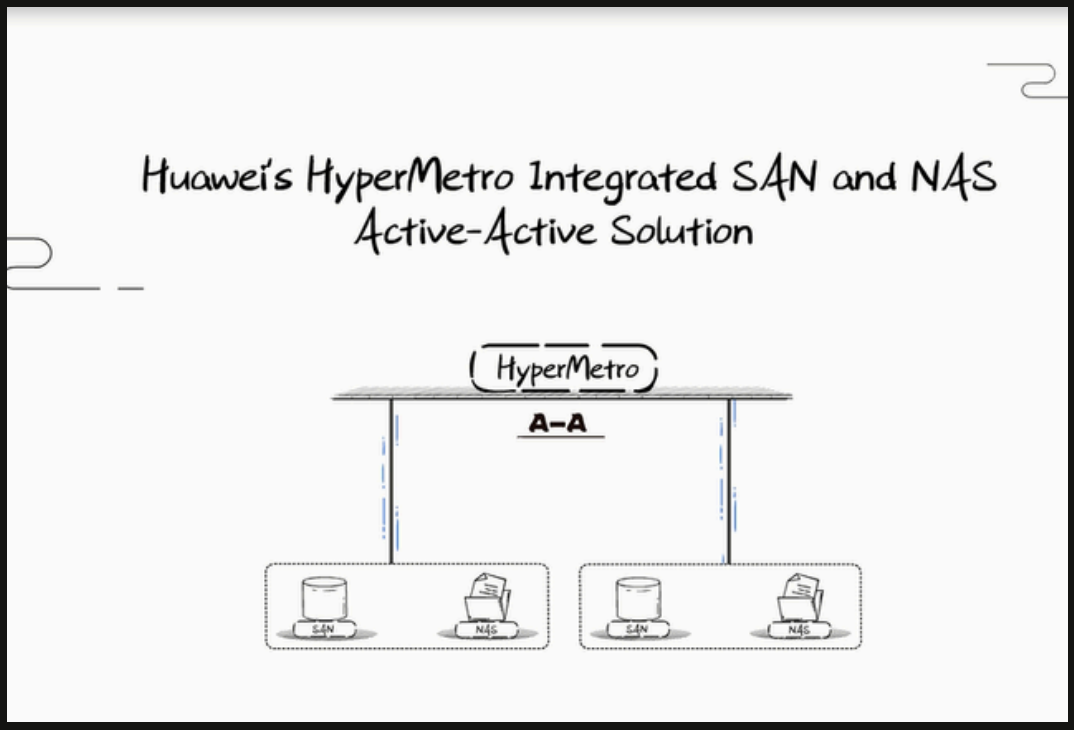
A crucial aspect of anomaly detection lies in measuring entropy. Entropy is a metric that quantifies disorder or uncertainty within a system. In the context of data storage, entropy can be used to assess the complexity and distribution of stored data. Higher entropy values imply more random and unpredictable data patterns.

Through HyperDetect, entropy analysis allows for the establishment of normal behavioral patterns in storage operations and workloads. By scrutinizing the entropy of data traffic and storage access, HyperDetect creates thresholds and profiles of typical behavior for various system aspects.

Once HyperDetect detects significant variations in entropy or deviations from established behavior models, it can raise real-time alerts. Such fluctuations might indicate suspicious activities, security breaches, or potential failures. Immediate alerts enable system administrators to take swift corrective actions.

PROJECT HIGHLIGHTS

HUAWEI HYPERMETRO SAN & NAS



During my tenure, I successfully deployed a new storage architecture utilizing an active-active solution in two data centers, leveraging the cutting-edge technology of Huawei HyperMetro. This implementation ensured high availability and resilience for critical data across the two data centers, minimizing downtime and maximizing performance.

Furthermore, I led the seamless migration of legacy data from an older EMC Unity storage system to the new Huawei Dorado 3000v6 storage system. This involved meticulous planning, data mapping, and data transfer to ensure a smooth and efficient migration process with minimal disruption to business operations. The successful migration resulted in improved data management, enhanced data access speed, and increased storage efficiency for the organization.

Through my technical expertise in storage technologies, in-depth knowledge of Huawei storage solutions, and meticulous project management skills, I was able to deliver a robust and reliable storage architecture that met the organization's requirements for data availability, performance, and scalability.

DELL UNITY XT

I had the privilege of deploying a Unity XT 380 storage system with 300 TB of data in replication between two geographically distinct sites. This deployment involved configuring advanced replication features to ensure seamless synchronization and data protection across both locations. The Unity XT 380 was chosen for its high-performance capabilities and robust data management features, providing the client with an optimal solution for their storage and disaster recovery needs.

By leveraging Unity's asynchronous replication, I ensured that critical data could be mirrored efficiently between the sites, enabling business continuity in the event of a failure. The replication process was fine-tuned to handle large volumes of data without compromising performance, ensuring minimal downtime and high availability for the client's operations.

Additionally, the system's inline data reduction features, including deduplication and compression, helped optimize the storage capacity, making the most out of the 300 TB while maintaining fast access to critical datasets. This setup not only enhanced data security and performance but also allowed for future scalability as the client's storage needs grow.

PROJECT HIGHLIGHTS

VEEAM + DELL DATADOMAIN

As part of the project, I successfully implemented a solution that involved setting up nine DataDomain systems in asynchronous replication between sites. This enabled efficient and secure data replication for disaster recovery purposes, ensuring data availability in the event of a site failure.

I also defined a new backup policy tailored to the organization's requirements, taking into consideration the data retention objectives, recovery point objectives (RPOs), and recovery time objectives (RTOs). This involved establishing appropriate backup schedules, retention policies, and encryption mechanisms to align with the organization's data protection strategy.

To optimize and secure the backup workflows, I conducted thorough analysis and optimization of the backup data streams, ensuring efficient utilization of network bandwidth and storage resources. I also implemented necessary security configurations and hardening measures on the backup server to safeguard against potential security threats and unauthorized access.

In addition, I implemented immutability and retention lock features on the DataDomain systems, ensuring that the backup data remains immutable and tamper-proof for a defined retention period, in compliance with data retention policies and regulatory requirements.

Furthermore, I implemented the DDBoost protocol, which is a DataDomain-specific data deduplication technology that enhances the performance and efficiency of backup and recovery operations by reducing data transfer and storage requirements.

Through these efforts, I successfully revamped the organization's Veeam Backup & Replication infrastructure, implementing efficient and secure data protection practices, optimizing backup workflows, and ensuring compliance with data retention policies and regulatory requirements.

LET'S GET WORK TOGETHER

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THANKS

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