

The AD internship has played a role in my growth giving me a deep understanding of managing and configuring AD in real life scenarios. In this essay I will reflect on the tasks and experiences I encountered during the 50-hour internship focusing on exploring AD concepts working on projects and honing my skills as an AD administrator. During the week I delved into the intricacies of integrating Active Directory with cloud services, Microsoft Azure. With guidance from mentors, I learned how to set up Azure AD Connect to establish synchronization between on premises AD and Azure AD. This integration opened possibilities by allowing users to access cloud-based applications and services using the credentials they used for on premises resources. This experience expanded my knowledge of environments. Emphasized the importance of unified identity management for modern enterprises.

In the week I explored techniques for achieving high availability in AD environments. Collaborating with a project team we actively worked on implementing site architectures with domain controllers, within the AD setup. This ensured uninterrupted operations even if a site failed, reducing downtime, and enhancing the reliability and resilience of our network infrastructure. Throughout this phase I gained an understanding of the significance of having plans and recovery strategies in place for vital network components in case of emergencies.

During this period, I had dived into the concepts of delegation and Role Based Access Control (RBAC) within Active Directory. With the guidance of professionals, I learned how to assign administrative tasks to users or groups empowering different departments to effectively manage their resources while maintaining centralized control. By implementing RBAC we further strengthened security by ensuring that users only had permission to play their roles. This experience underscored the importance of tuned access controls in maintaining a well-organized AD environment.

In the week I took on a project involving the migration of Active Directory to new hardware. Collaborating closely with mentors meticulously. Executed the migration process minimizing downtime and ensuring a smooth transition to the new hardware. This project highlighted how crucial it is to maintain data integrity. Emphasized the need for planning and comprehensive testing to avoid any disruptions in business operations during such migrations. The final week of this phase immersed me in the intricacies of a Directory domain rename. Collaborating closely with mentors I participated in a project where we rebranded an existing AD domain to align it with our organization's evolving requirements. Throughout the process we carefully planned, conducted testing, and executed meticulously to ensure a transition while preserving the integrity of our data. This experience has truly solidified my understanding of the flexibility and adaptability of Active Directory (AD) when it comes to accommodating changes.

Over the course of my Active Directory internship, which spans 50 hours, I have undergone a journey that has propelled my expertise in AD administration. I have delved into concepts such as integrating AD with cloud services ensuring availability implementing delegation and role-based access control (RBAC) as well as undertaking domain migration and rename projects. These endeavors have enriched my skill set. Prepared me to tackle challenges in managing network infrastructure. As I continue progressing through the remaining hours of my internship, I am filled with enthusiasm to further explore AD tasks and engage in real world projects. The experiences gained during this phase have not reinforced my passion for Active Directory administration. Also equipped me to make meaningful contributions, towards enhancing the security and efficiency of network infrastructure in any professional environment.