FGlobal AD Consolidation

Case Study: FGlobal AD Consolidation Project

Background: FGlobal, a leading producer of silicon metal, silicon-based alloys, and manganese-based alloys, embarked on an Active Directory (AD) consolidation project. The goal was to streamline and enhance the efficiency of their AD infrastructure.

Project Scope: The project was divided into several key areas:

1. **Delegation and Policy Management:**
   - Define delegation of administration in the target AD.
   - Define advanced group policy management.
   - Validate and update existing domain controller security hardening guidelines.
2. **Migration Strategy:**
   - Document migration strategy for consolidating AD objects to the target AD.
   - Define strategy for migrating file and print servers.
   - Provide hardware and software requirements for the target AD and migration infrastructure.
   - Prepare pilot test cases and capture workstation details for each region.
   - Gather application details, owners, and platform information.
   - Define approach to implement Single Sign-On (SSO) and Multi-Factor Authentication (MFA) in the target AD.
3. **Build Phase Activities:**
   - Configure target AD structure, new AD sites, site subnets, and site links.
   - Restructure existing AD security groups for delegation of access.
   - Create/import group policy objects and associated configurations.
   - Configure two-way bidirectional trust between source and target domains with SID filtering disabled.
   - Configure location-wise printer configuration through AD group policy.
   - Configure AD features like snapshot and recycle bin by elevating the forest/domain functional levels.
   - Perform cleanup on unused identities in Azure and target domain AD.
   - Establish SSO and MFA with M365.
4. **Support and Governance:**
   - Provide BAU operations support (8x5 shift and 24x7 on-call support for major security incidents).
   - Validate all efforts, project plans, milestones, and operations activities with client SMEs/decision makers.
   - Coordinate with FGlobal to fulfill SOC audit requirements.

Project Execution:
- **Timeline:** The project started on September 1, 2021, and was completed by March 31, 2022.
- **Phases:** The project was executed in a structured manner with clear milestones and deliverables.

Challenges and Solutions:
- **Challenge:** Ensuring timely access to necessary systems and tools.
- **Solution:** FGlobal provided timely access and necessary licenses to avoid project delays.
- **Challenge:** Managing compatibility issues during the project.

- **Solution:** Any compatibility issues were addressed through a joint evaluation and change management process.

Outcomes:
- Successful consolidation and migration of AD objects.
- Enhanced AD management processes with improved security and functionality.
- Comprehensive testing and validation ensuring robust AD functions.

Conclusion: The AD consolidation project at FGlobal, executed by Infosys, resulted in streamlined AD management processes, enhanced security, and successful integration of new functionalities. The project demonstrated effective collaboration, strategic planning, and rigorous testing, leading to successful outcomes and setting a foundation for future IT initiatives.