TechCorp IAM Platform – Detailed Implementation Plan

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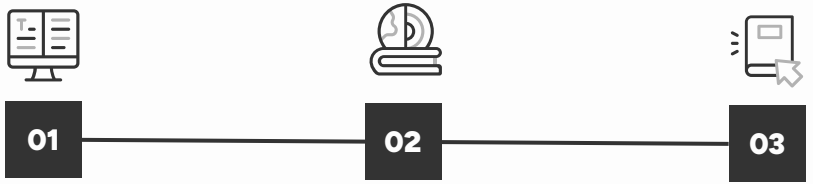
Introduction and Objective

- TechCorp is a large software company that provides digital solutions for other tech companies.
- Throughout the software journey, security is a mandatory phase for every company. Whether you implement it at the start or at the end of the journey, it doesn't matter — your company's information needs to be secure.
- This is why TechCorp wants to integrate an IAM solution into their company: to enhance security through a highly efficient implementation and to prevent unwanted data breaches.
- **Scope:** Implement IAM security across every department and for every possible user. Without a security check, no one will be able to access the resources.

Current Situation & Application Architecture

Current situation

- Currently Techcorp has no Multifactor Authentication system to avoid unauthorized access.
- Also Weak Resource access lead to data breaches mean there is chance that anyone can change and update others information or credential.
- Furthur Company has no SSO integration that's why user strickly use multiple credential to access multiple resources



Weak Resource Access

There is chance to break integrity in data communication

Avoid SSO

User required multiple credential to access diff. resources

Missing MFA

Missing MFA higher the change of inviting intruders

Problems

IAM Solution Roadmap

01

Project Initiation

Streamline the whole project requirement

02

Needs Assessment

Requirement Gathering and assessment

03

Solution Design

Design the whole system workflow

04

Resource Planning

Gathering resources

05

Implementation

Implementation of the Planning

06

Testing & QA

Testing the security enhanced system

07

Deployment

Deploy IAM enhanced security

08

Optimization

Optimize and analyze the system after deployment

01

Project Initiation

What is the requirement of Techcorp and how we streamline the IAM Solution into current lifecycle with minimal interuption.

Project Initiation

Goals

Identify security services they want to intgrate like SSO, Multifactor Authentication, Secure user experience

Decided who are the participants

We will create a team with our IAM developers and architect and Techcorp’s cyber security team and HR, to avoid unnecessary confusion

Workflow

We will decide which things we have to focus on and why and how much priority.

02

Needs Assessment

Audit the existing system and it’s security application to understand which loopholes are dangeours.

Assessment

- We will analyze the company’s current application.
- We can create an audit report covering the workflow and security situation. We can also include the requirements in the report for better understanding.
- Our main goal is to streamline the entire workflow into a single file, under the supervision of Techcorp’s higher authority or our IAM teammates.
- We will also separate the company’s main integration features into the report.
- We will identify the loopholes and current working feature from software.

03

Solution Design

Design the blueprint of IAM Solution with things to integrate.

Planning - Designing

Choose Authentication

We will choose SSO, biomatrix or MFA to add an extra layer of security in system.

Roles

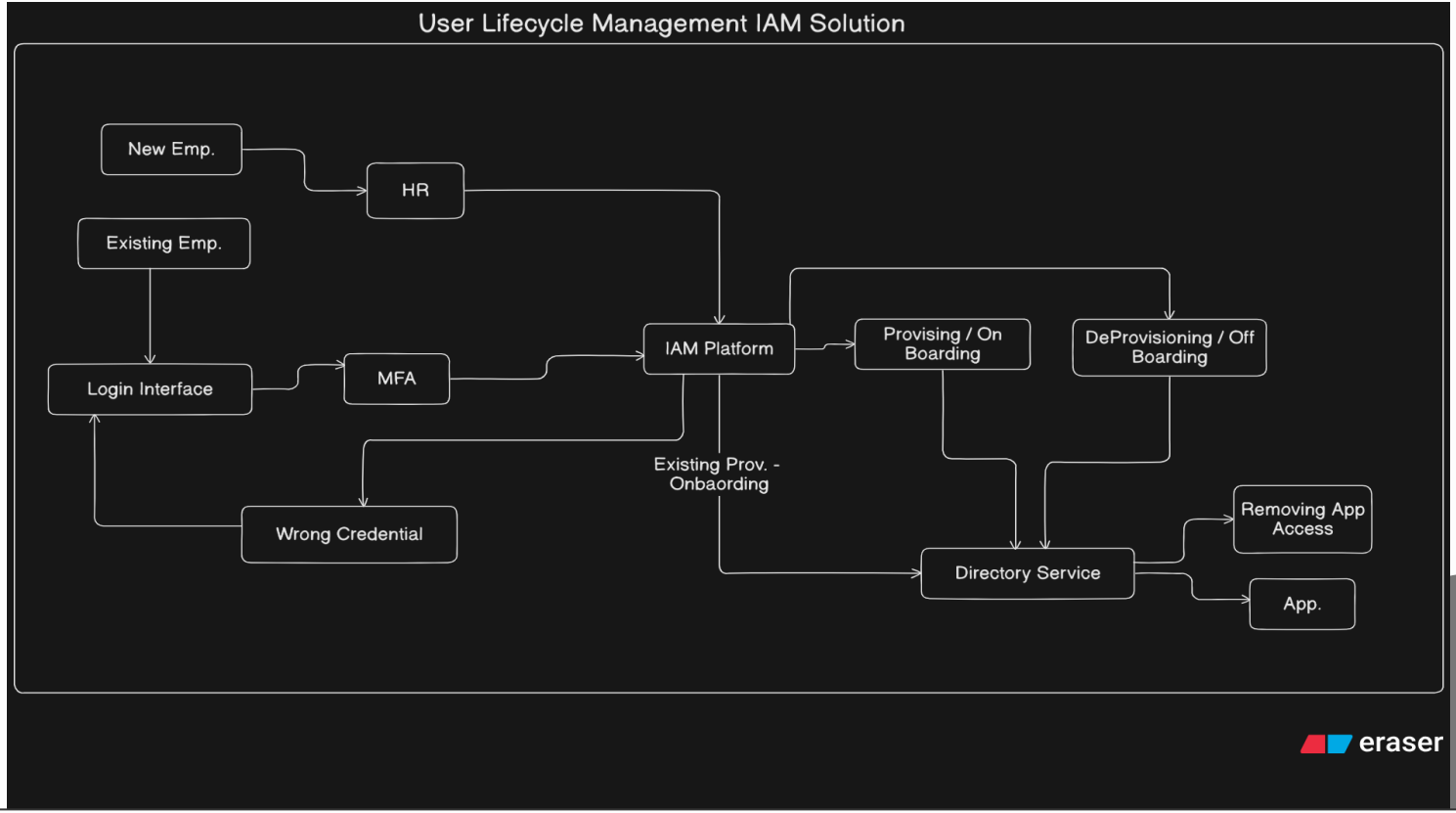
We will add different role type into system directory for Managers, Employees, HR etc.

Integration

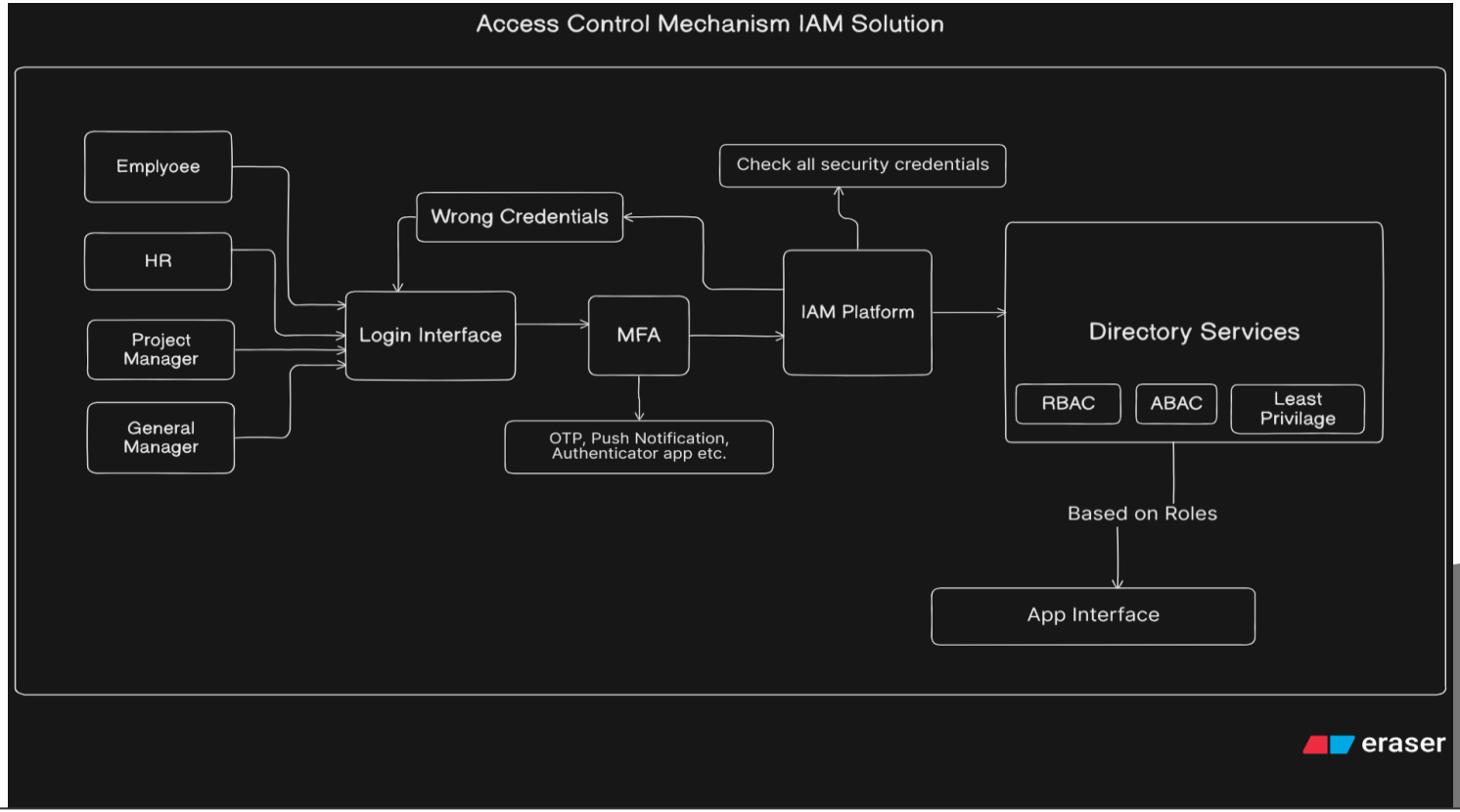
We will integrate this features with currently working features without least data loss.

Distribution

Distribute the work among teammates like IAM architect, developer or manager.



User Management LifeCycle



Access Mechanism System

04

Resource Planning

List the resources required for IAM and distribution of work among teammates efficiently.

Methodology

Team

Team Leader

Lead the team and manage whole workflow and timeline with every required introgation.

IAM Architect

Who design and build the Architecture of IAM Security from every corner.

IAM Developers

Build and Integrate the IAM solution into system with minimal system affection.

CyberSecurity Team

CS Team is standby team who handle and guide in security scenario and loopholes

Resources

IAM Platform Tools

- This is centeralized security, policy management tools which integrate with every external application.
- Okta is best for Cloud based identity platform

Directory Services

- This is the Store of identity and information like Contacts in Mobile.
- AzureAD is cloud based app which integrate with Microsoft 365 and every possible SaaS app.

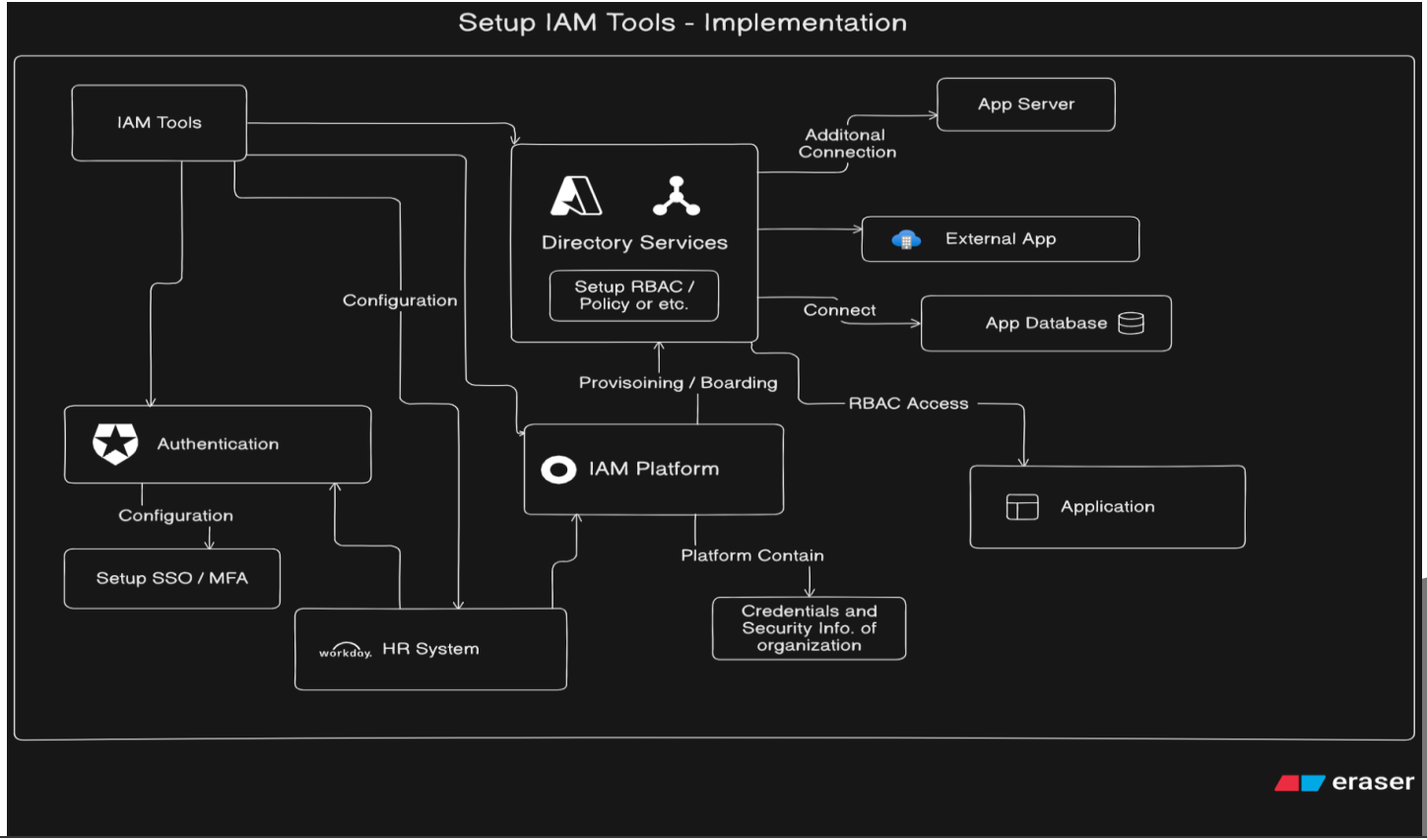
Authentication Tools

- Add a layer of security in system which ensure only legit user will allow.
- Auth0 is widely used for Authorization-Authentication
- Google Authentication is used to generate OTP for mobile app.

05

Implementation

Build and configure the IAM software after some meeting.



IAM Tools Integration

06

Testing

Perform various type of testing on product can solve most of the bugs.

Testing

- Authentication – Authorization Testing
  - Various user roles can help in this testing. Like system can perfectly implement authorization – authentication operation by individual user roles.
- Security Attack Testing
  - Perform various security attack on system to understand where will be loophole created or existed. The level of security attack can be lower to lower the risk of data changes
- Integration Testing
  - After integrate every requirement in system, We have to perform integration testing where whole system test at once and final report generated at the end of the testing
- Multiple User Testing
  - Test this system by multiple different roles user to analyze that how each user utilize this product and get the efficiency of the system.

07

Deployment

Deploy the upgraded system after Testing and review.

Deployment

- Deploy the entire integrated system into the real-world environment.
- Release the product to the employees of the company.
- Before deployment, complete any necessary registrations or patents.
- Present the enhanced security system to employees, HR, and higher authorities.
- Purchase all required certificates necessary for security and deployment.
- Hand over all required roles, permissions, policies, and other elements of the IAM integrated system.
- Complete and assign all important documents or MoUs between the relevant parties.
- Review all security enhancements with employees and demonstrate the workflow of the system with IAM integration.

08

Optimization

Optimize the whole system through the process.

Optimization

- After delivering the IAM-integrated system to the company, it is also necessary to analyze and optimize the whole system periodically.
- We have the responsibility to walk through the security integration of this system with the client’s cyber security team.
- They have the right to know the system’s security details, and they are responsible for fixing any bugs or loopholes that arise.
- The cyber security team will regularly check the system, optimize it, and generate reports to ensure that the system continues to function as expected after delivery.

Thank You