



# Passwordless Authentication



# Executive Summary



## Challenge

- Passwords lead to credential theft, a major cause of data breaches
- Healthcare faces pressure to comply with regulations like HIPAA and HITRUST
- Password resets create a high volume of helpdesk calls, increasing IT costs



## Passwordless Solution

- Our solution enables seamless, secure access to healthcare systems using Entra ID
- It integrates various passwordless methods like biometrics and smart cards
- The solution offers context-aware authentication based on user roles and devices



## Key Benefits

- Reduces credential theft and phishing risks
- Lowers helpdesk calls related to password resets
- Improves login experience and saves users time

# Solution Overview

## About the Solution

Our AI-driven passwordless authentication solution uniquely enables seamless Entra ID integration **for all enterprise and healthcare systems**—ensuring secure, compliant, and frictionless access across all healthcare environments.

### Healthcare's Identity & Security Challenges

- Password/Credential theft - **30% of Data breaches**
- **\$4.8 M** avg cost per incident due to credentials(2024)
- Healthcare - top target for cybercriminals
- Password Reset - **20% - 50% of Helpdesk calls**
- Challenge in connecting to Entra ID directly
- Regulatory Pressure: HIPAA, HITRUST, GDPR, and Zero Trust.

### Seamless, Secure Access to EHRs & Critical Systems with Entra ID

- Bridges Non-Native Devices with Entra ID
- Biometric & Smart Card based SSO integrated into Entra ID
- Works with Microsoft 365, Epic, Cerner, Meditech, and other healthcare apps.
- Context-aware authentication based on user role, device, and location.

### Better Security , Frictionless User Experience

- Passwordless access for all devices
- Eliminates phishing & credential theft risks.
- Reduced Helpdesk **calls by 33%**
- Save IT Cost - **\$150k per 1000 users**
- Faster Login Experience - **save 24 hours per user annually**
- Regulatory Compliance: Meets NIST, GDPR, and Zero Trust principles.

# User Personas



**Dr. Adam, Senior Physician**

## Challenge

- Entering passwords multiple times per shift.
- Struggles to remember complex passwords across multiple hospital systems

## Passwordless Authentication

- Fast, seamless access with biometrics/FIDO keys
- Auto-login to hospital systems, reducing login time per shift by 30%.



**Bruce, IT Security Manager  
(CISO's Team)**

- Phishing attacks and credential breaches targeting hospital staff.
- Managing access for thousands of users is complex and costly.
- HIPAA, HITRUST, and NIST compliance is challenging

- Eliminates phishing risks with FIDO 2 compliant authentication
- Meets HIPAA & Zero Trust compliance with risk-based authentication and MFA.

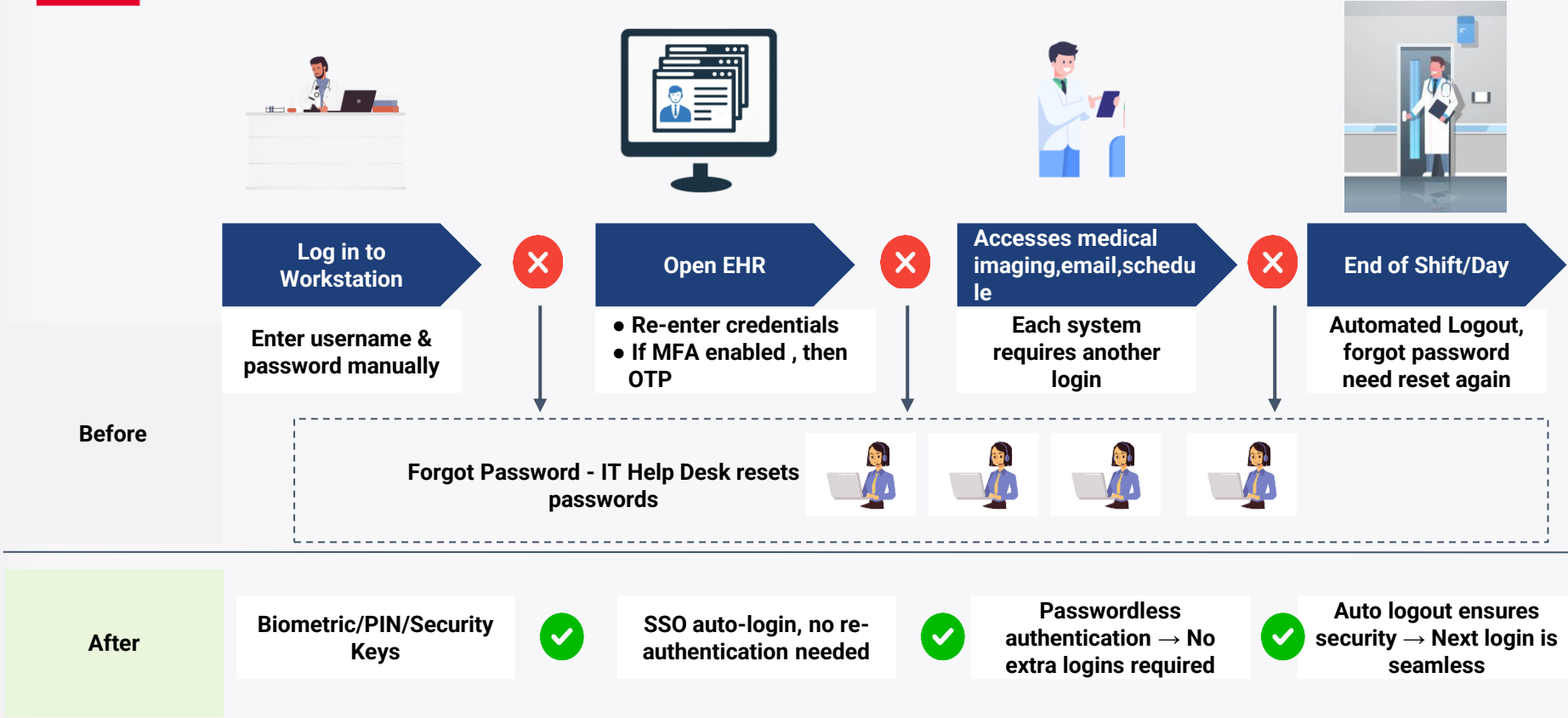


**Carla, Healthcare IT Helpdesk Lead**

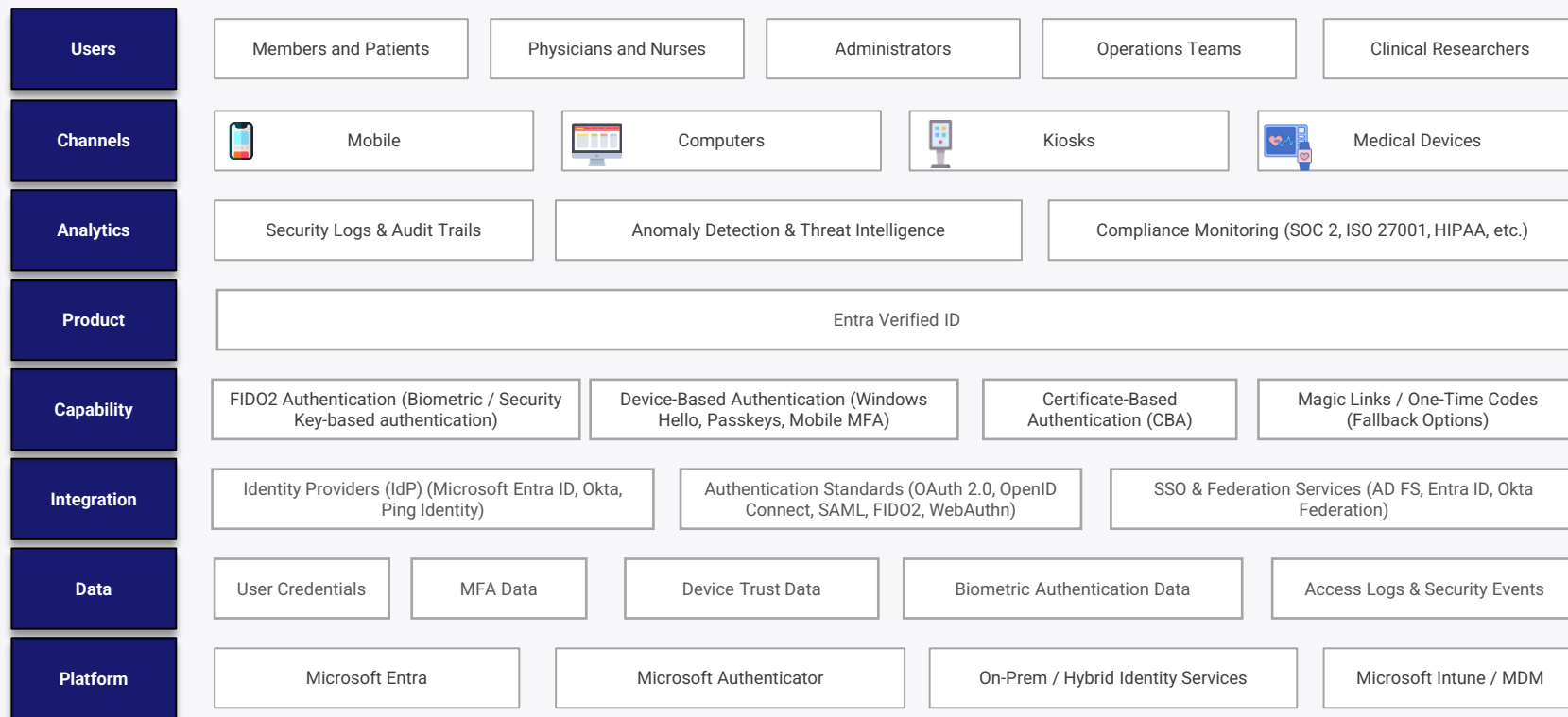
- 40-50% of IT support tickets are password reset requests
- Multiple authentication methods-time-consuming and costly.

- Reduces password reset calls by 60%, freeing up IT resources.
- Simplifies login process for doctors & nurses using hospital-approved devices.

# Use Case/ Persona Journey

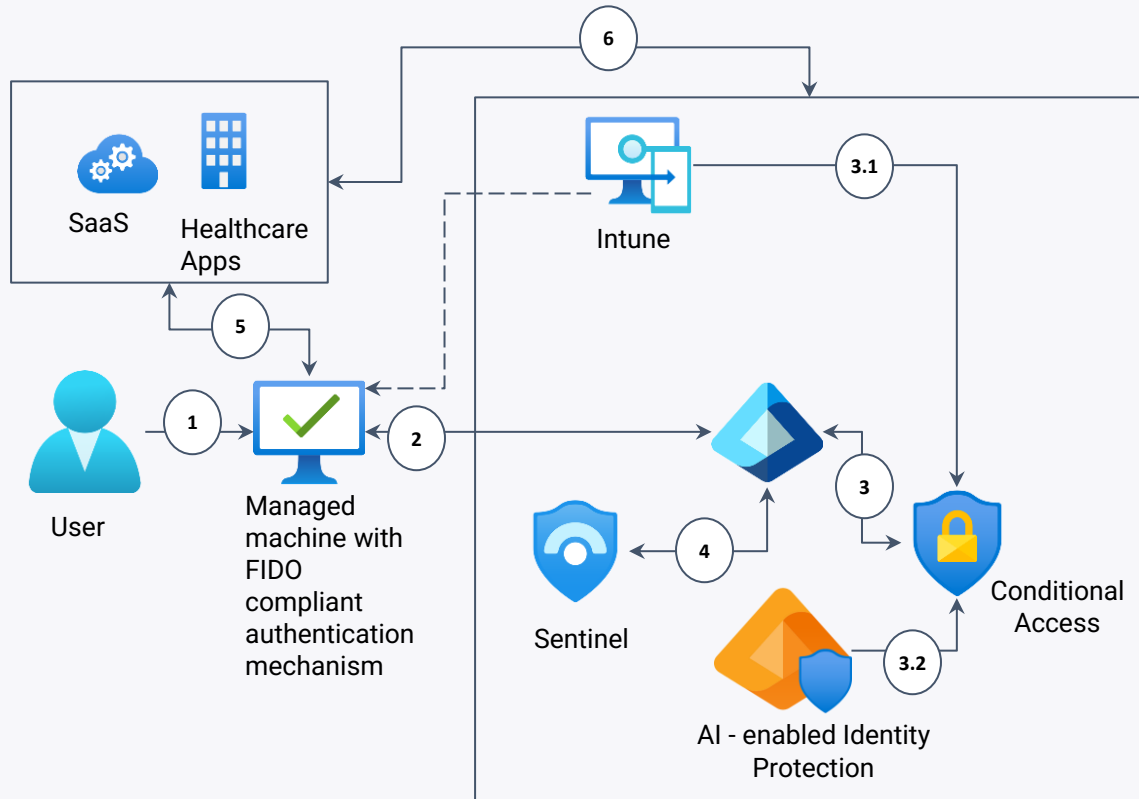


# Conceptual Architecture



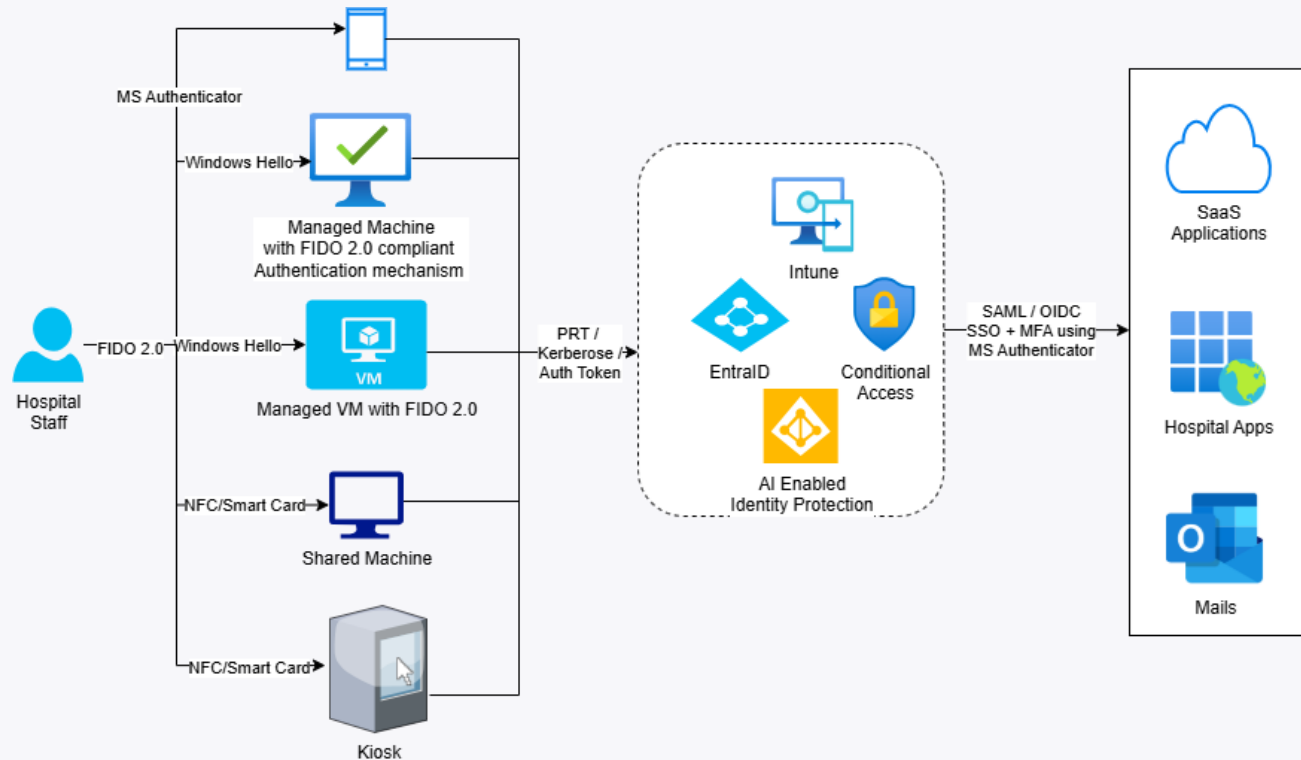
# Reference Architecture

1. User logs in to a Managed Windows System
2. User authenticates using passwordless methods such as biometrics, FIDO 2 keys, Microsoft Authenticator and request got forwarded to EntraID
3. EntraID after doing basic Identity verification send the request to conditional access
  1. Conditional access policy engine check for secured device status
  2. Checks for Identity risk
4. EntraID logs are integrated with Sentinel for further auditing and monitoring
5. User access any SAML/OIDC compliant application integrated with EntraID, using browser.
6. Browser will send PRT token to EntraID for authentication and will do a Passwordless SSO to EntraID by doing same checks with conditional access and will create the application session.



# Integrated Architecture/Flow - Implementing Passwordless

- User logs in either using Windows Hello or NFC/Smart Card.
- EntraID is configured as IdP with devices as well as with Applications to enforce Conditional access on the basis of Roles and user attributes.
- EntraID's applies conditional access policies to validate predefined rules like passwordless, user role, device compliance, location etc.
- Access is given after successful authentication on end application using SAML/OIDC based SSO.
- Automated session lock with tap out can be implemented for shared systems and kiosk.





# Key Differentiators of our Solution

## Healthcare - Centric



Optimized for Healthcare environments - EHR & Clinical Workflows



Seamless integration with Shared Devices/Kiosks

## Integrates Entra ID



Extends Microsoft Entra ID to work with all compliant hospital systems



Entra ID meets Healthcare compliance requirements



Support multiple passwordless methods - FIDO 2.0 compliant authentication

## Enhances Security



Eliminates Credential Theft Risk



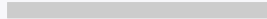
Built for Hybrid (On Prem , Cloud)



Zero Trust Ready



**Thank You**



For more information, write to us at [inquiry@neurealm.com](mailto:inquiry@neurealm.com)

[www.neurealm.com](http://www.neurealm.com)

# Demo

---

Video link - [Passwordless SignIn Demo Video\\_V2b.mp4](#)

# Integration/Implementation Process

## Assessment and Planning

- Understand requirement
- Security & Compliance check
- Technical Readiness assessment

## Setup and Config

- Enable Passwordless Authentication in Microsoft Entra ID - config FIDO keys, Windows Hello and Msft Authenticator
- Device Enrollment & Trust validation
- Application and Infra integration

## Pilot Testing & User Training

- Pilot Deployment (Limited Test User group)
- User Training and Onboarding

## Full-Scale Rollout

- Expand Deployment to all users
- Implement automated fallback authentication
- Monitor user adoption and feedback

## Post-Implementation Support & Optimization

- User Support & Helpdesk Integration
- Performance Tuning & Optimization