



# Module 1 Microsoft Cloud for Healthcare Overview



## Healthcare in transition



180

160







## Virtual health

76% of patients are interested in trying telehealth, and 46% are actively using it to replace cancelled visits<sup>1</sup>

## Interoperability

90% of providers' data is unstructured and largely inaccessible for datadriven decisions<sup>2</sup>

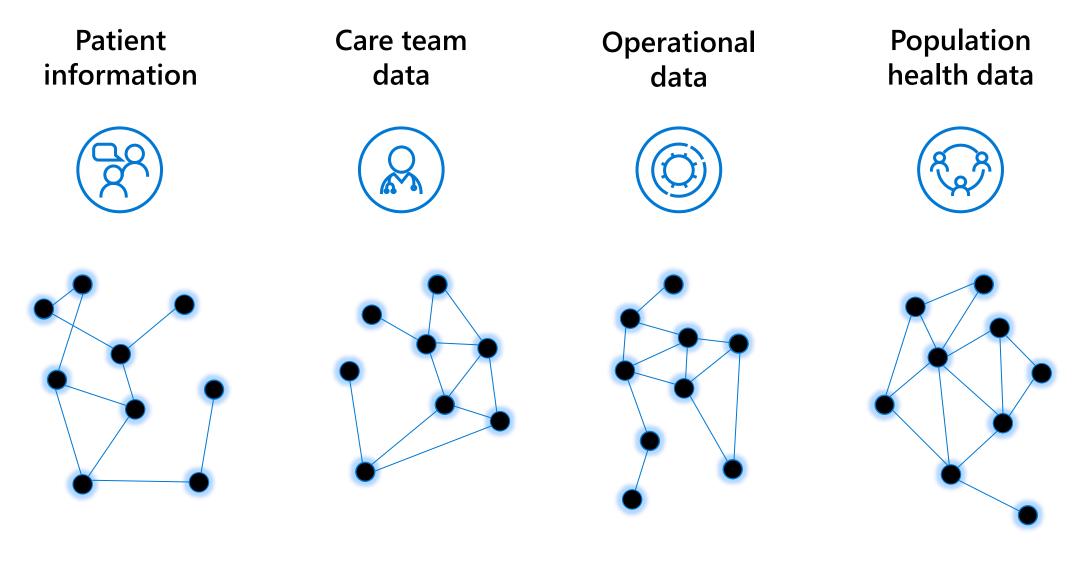
## **Health outcomes**

Up to 70% of the time providers spend looking for insights is wasted on data ingestion and unification<sup>3</sup>

## **Security pressures**

\$6.2 billion USD is lost to data breaches every year amid growing pressures in security and compliance<sup>4</sup>

## Unify your data across the healthcare organization



## To overcome these challenges, healthcare organizations must harness the power of their data





The average healthcare system produces over 50 petabytes of data<sup>1</sup> per year across multiple siloed systems

Once integrated, data insights enhance patient care, health team efficacy, and organizational performance



Through a holistic approach to system integration and optimization

## Microsoft Cloud for Healthcare

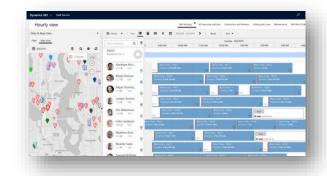
Providing trusted and integrated cloud capabilities to deliver better experiences, better insights, and better care





Enhance patient engagement

Enabling enriched data to flow securely through every point of care to continuously improve patient's experience and health outcomes





Empower health team collaboration

Accelerating health teams' ability to coordinate care in a secure environment and simplify complex workflow management





Improve clinical and operational insights

Connecting data from across systems, creating insights to predict risk and help improve patient care, quality assurance, and operational efficiencies

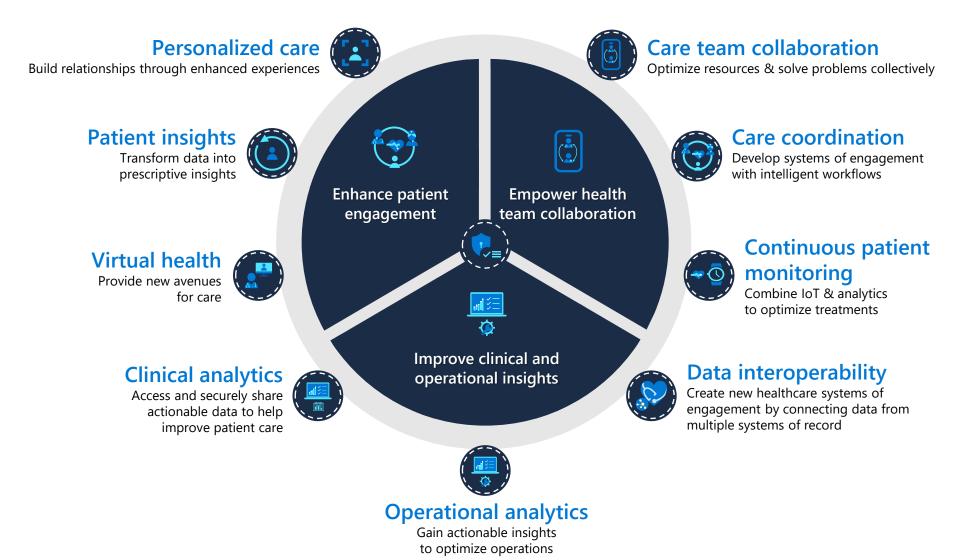


#### **Protect health information**

Protecting sensitive health data to support end-to-end security and privacy, manage evolving compliance regulations, and continually improve data governance and trust

## Microsoft Cloud for Healthcare

Capabilities enabling better experiences, better insights, better care



## Microsoft Cloud for Healthcare - Conceptual Architecture

Connected, highly-integrated healthcare platform Trusted + global scale + security commitment Complete, enterprise-ready, end-to-end workflow Partner ecosystem **Enhance patient engagement Empower health team collaboration** Improve clinical and operational insights Continuous Personalized **Patient** Virtual Care team Care Data Clinical Operational patient health collaboration coordination interoperability insights analytics analytics care monitoring Microsoft Cloud for Healthcare Add-On components Protected health information (e.g. Templates and workflows, configurations, apps, connectors, and services) Compliance (e.g. HIPAA, HITRUST, GDPR) Microsoft Power Platform **₩** Microsoft 365 Microsoft Dynamics 365 → Microsoft Azure Ingest, enrich, and convert with FHIR, DICOM, and IoMT (Azure API for FHIR and other connectors) Your existing health data sources and systems

(e.g. Medical imaging, IoMT, HL7 CCDA, CRM, financial, -omics, third-party data, EMR)

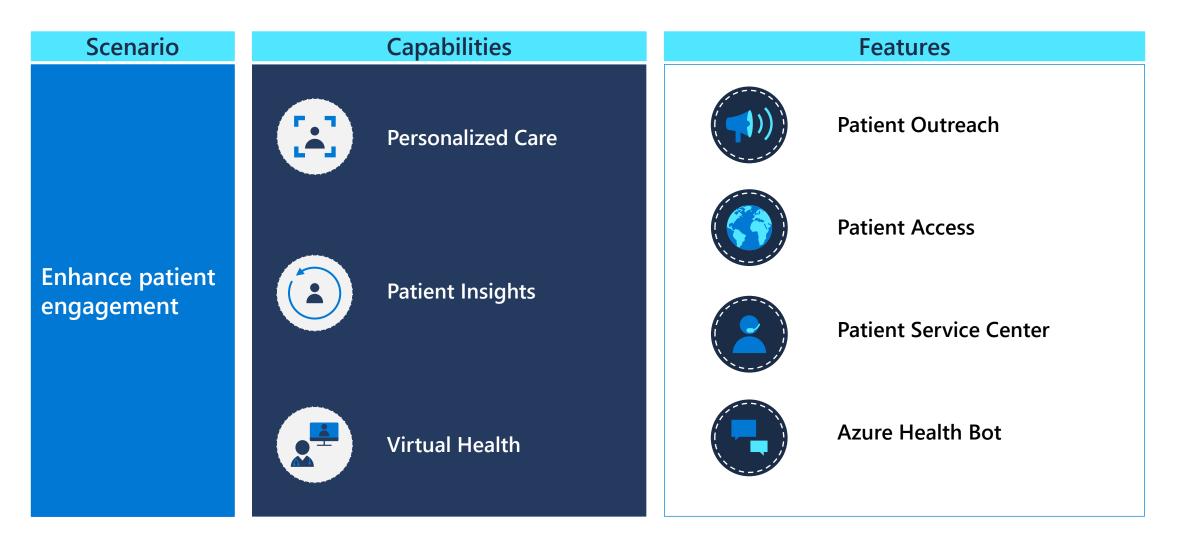
## Enhance patient engagement

Develop personalized experiences and interactions that empower patients to take more control over their health.



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## **Patient Outreach**

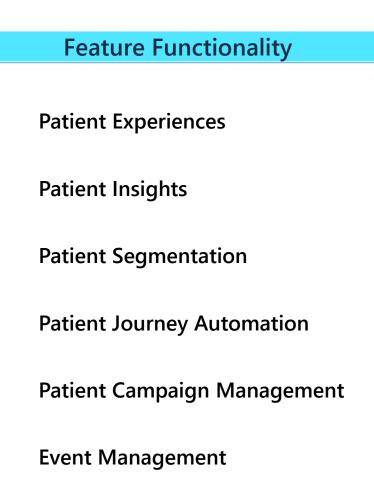
Streamline and tailor patient outreach leveraging pre-built segments and healthcare-specific event templates.

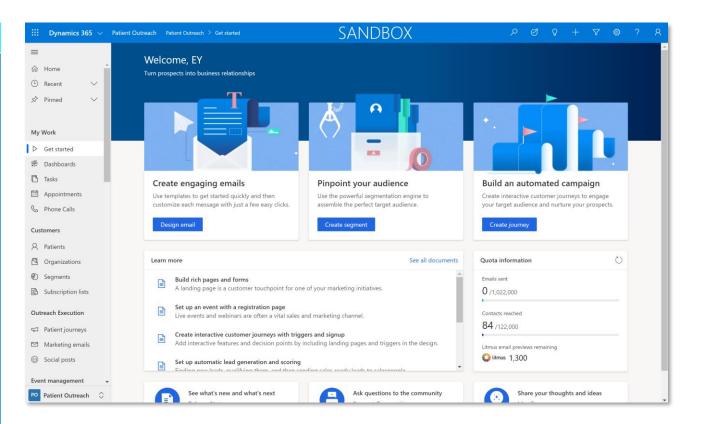




















## **Patient Access**

Give patients omnichannel access to services like scheduling, messaging, health bot via an intuitive patient portal.









#### **Feature Functionality**

**Patient Portal** 

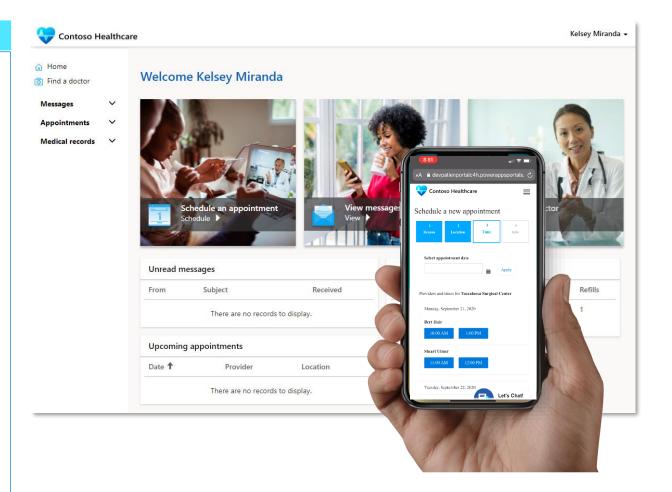
**Access to Medical Records** 

**Patient Self-Scheduling** 

**Secure Patient Messaging** 

Patient Triage with Health Bot

**Physicians Directory** 











## **Patient Service Center**

Engage effectively with patients using built-in guidance while managing interactions and communications.









#### **Feature Functionality**

**Conduct Patient Conversations** 

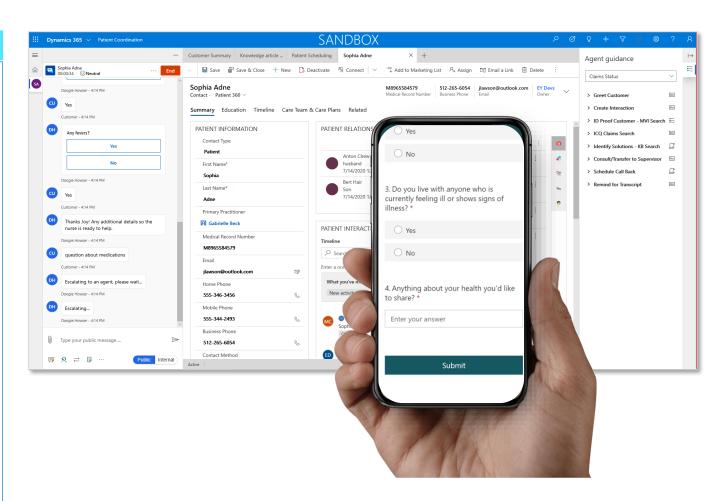
**Get Patient 360 Information** 

**Agent Scripts with Smart Assist** 

**Knowledge Article Coaching** 

**Monitor Sentiment Analysis** 

**Patient Satisfaction Survey** 











## Virtual Health Bot

Provide a self-service engagement channel by building chatbots from templates with built-in and custom scenarios.









#### **Feature Functionality**

**Built-in Conversations** 

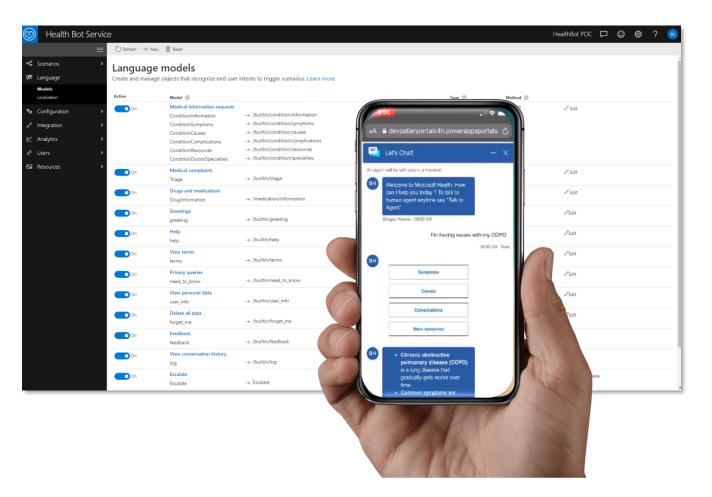
**Scenario Templates** 

**Custom Scenarios** 

**Authored Cards** 

**Language Model Extensibility** 

**Escalate to Call Center** 











## **Empower health team collaboration**

Accelerate health teams' ability to coordinate care in a secure environment and simplify complex workflow management.

Empower health team collaboration



Enable secure collaboration and messaging across the organization – from housekeeping to billing – from a single, highly configurable platform



Enable effective care management, scheduling, and resource optimization by empowering care team members with the right operational tools



Optimize patient treatments from anywhere, anytime by unlocking the power of IoT and analytics to monitor health



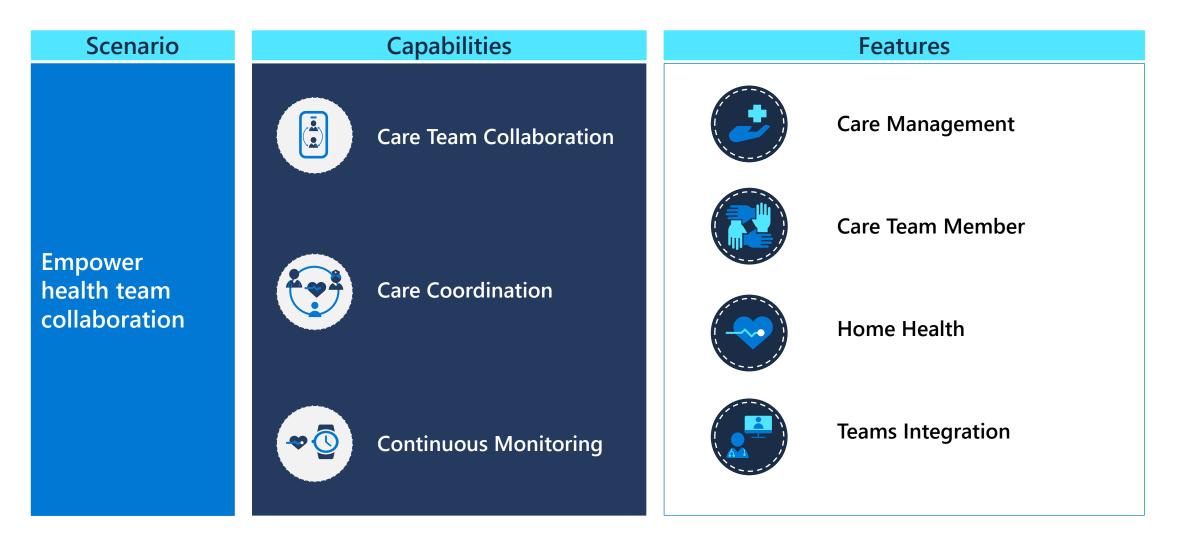






## Empower health team collaboration

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## **Care Management**

Manage Care Plans and Care Teams









#### **Feature Functionality**

**Holistic Patient Information** 

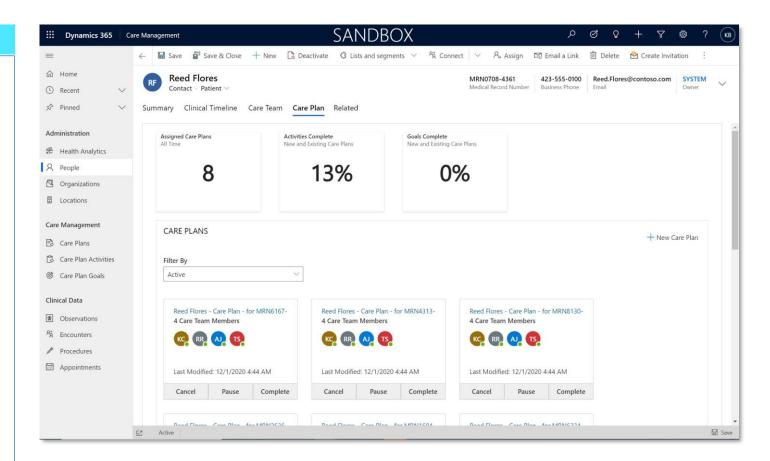
**Care Plan Management** 

**Care Team Management** 

**Care Team Support** 

**Patient Health Timeline** 

**Health Analytics** 











## Care Team Member

Care Team view that provides a complete picture of all people collaborating to provide the best care for the patient.

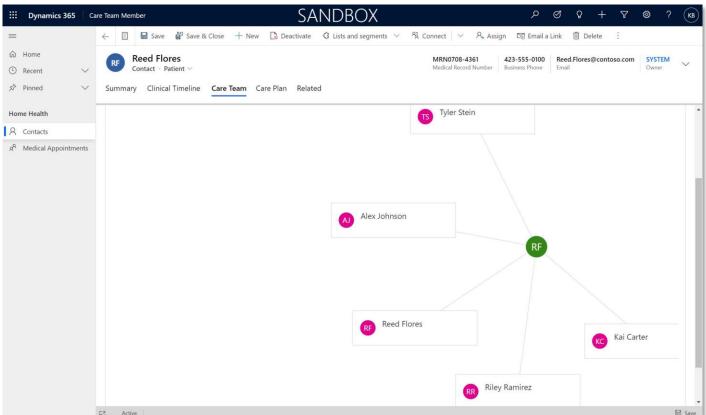




















## **Home Health**

Streamline home care with resource management and route optimization tools.









### **Feature Functionality**

**Scheduled Home Visit** 

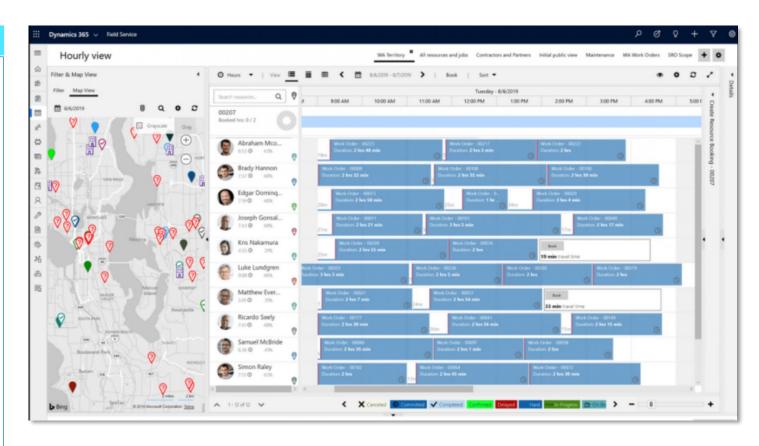
**Home Patient Care** 

**Home Care Management** 

**Visit Tracking Notifications** 

**Provider Schedule Management** 

**Scheduling Optimization** 











## Improve clinical and operational data insights

Connect data across systems, creating insights to predict risk and help improve patient care, quality assurance, and operational efficiencies





Simplify data governance and compliance by unifying data on a single, secure data platform



Improve operational efficiency by synchronizing management efforts across clinicians and administrators



Transform health outcomes using data-driven insights to improve clinical decision-making and care experiences



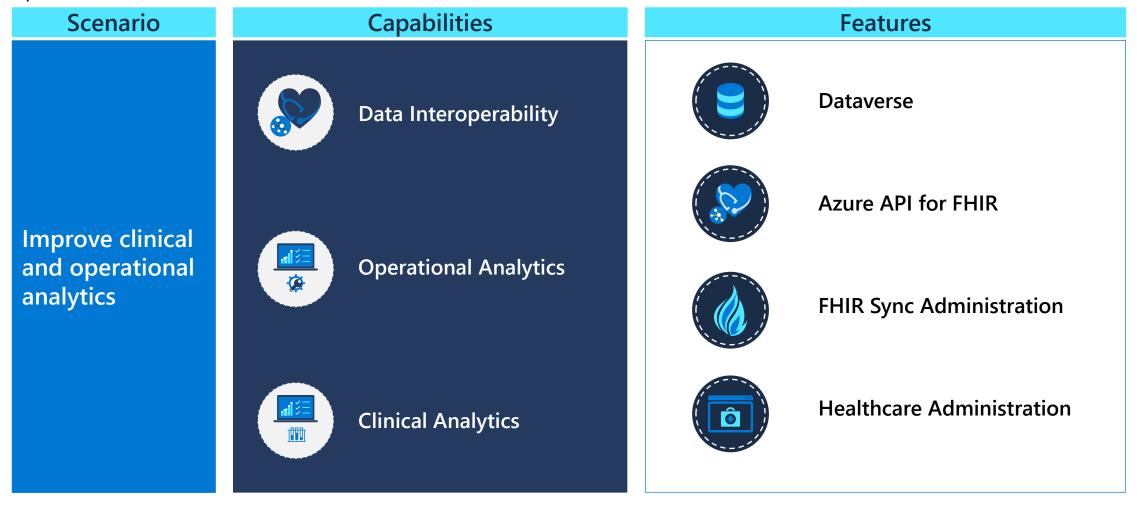






## Improve clinical and operational data insights

Connect data across systems, creating insights to predict risk and help improve patient care, quality assurance, and operational efficiencies.



## **Dataverse**

Securely store and manage data that's used by Microsoft Cloud for Healthcare applications.









#### **Feature Functionality**

**Securely Store & Manage Data** 

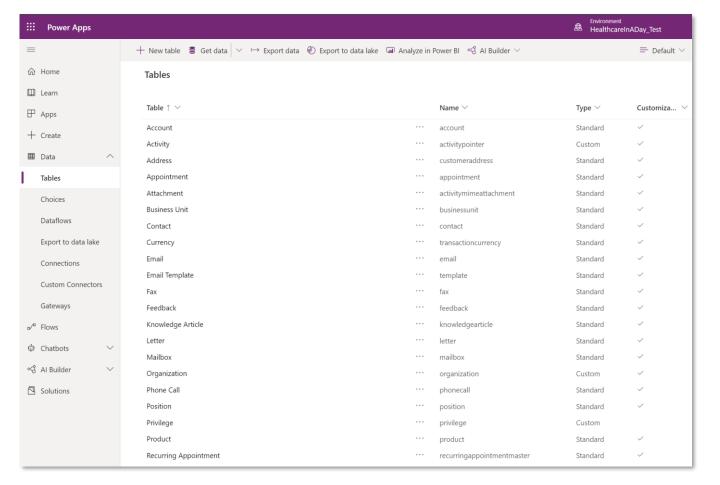
**Build Apps Against your Data** 

**Quickly Access your Data** 

**Reusable Business Logic** 

**Built-in Validations** 

**Integration with Other Systems** 











## **Azure API for FHIR**

Rapidly exchange data and securely connect and interact with any system that utilizes FHIR APIs.









#### **Feature Functionality**

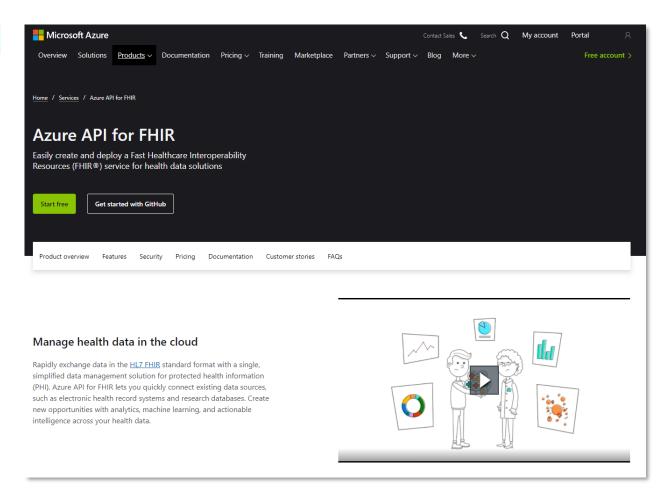
**Rapidly Exchange Data** 

**Holistic View of FHIR Data** 

Adapt and Extend Dataverse

**Enrich Disparate Data Sets** 

**End to End Data Pipeline** 











## **FHIR Sync Administration**

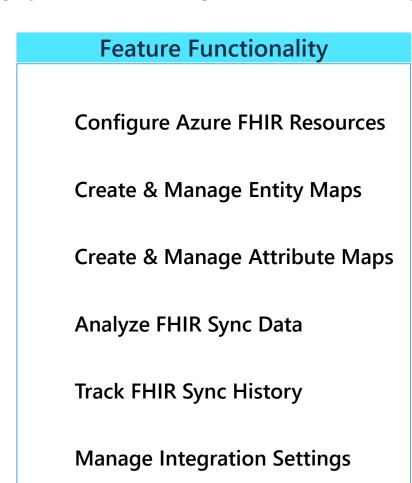
Manage your FHIR mappings, resources, and integration settings for Dataverse.

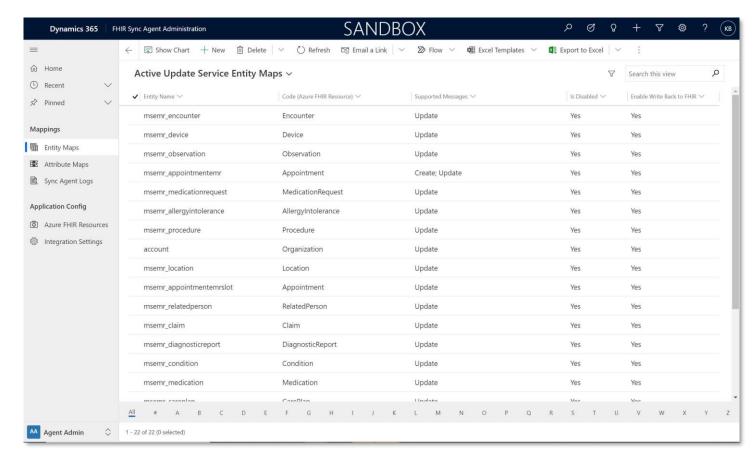




















## **Healthcare Administration**

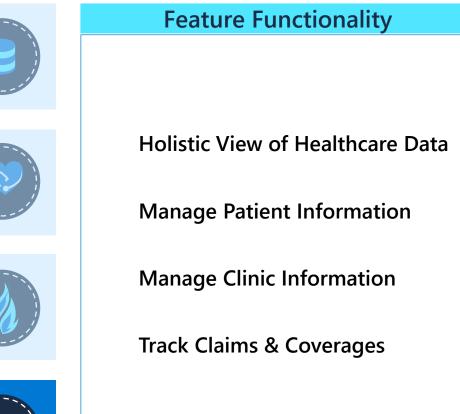
View and manage your healthcare data all in one place.

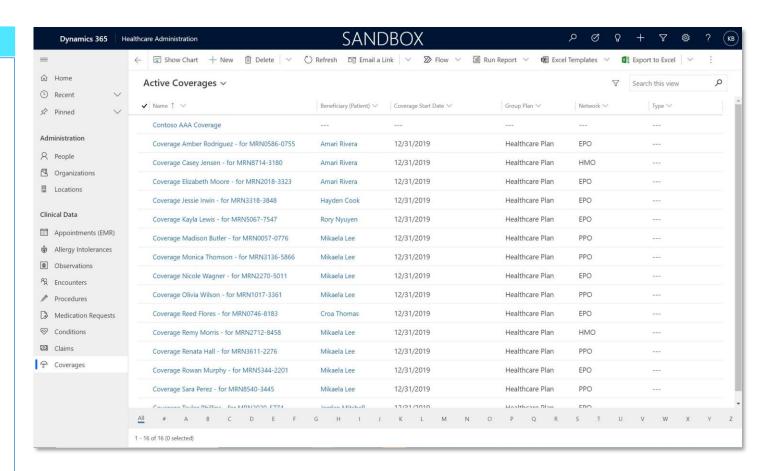




















## Protect health information

Protect sensitive health data to support privacy and effective, end-to-end security and compliance



In Summary...



## Unlock your data's full potential with the Microsoft Cloud for Healthcare



#### **Trust**

Consolidate data on a platform backed by investments in security, a commitment to privacy, and robust compliance offerings



#### Interoperability

Create a unified
data estate that
communicates
seamlessly with external
FHIR systems and critical
business applications



#### Intelligence

Reveal actionable, intelligent insights by applying AI and ML tools to comprehensive institutional datasets



#### **Agility**

Increase institutional
efficiency through
custom apps, role-based
dashboards, and
automated workflows

## **Next Session:**

Module 2
Microsoft Cloud
Solution Center &
Licensing



