

EY Secure Enclave Research with Azure

Helping researchers create ultra-secure environments to protect data and provide compute capacity at cloud scale



Complex regulations limit access and analyzation on sensitive data

Clients are finding it difficult to:

- Scale modern technology and tools
- Collaborate with other organizations using sensitive data
- Remain compliant with strict regulations
- Be agile and cost effective while scaling compute resources

EY Azure Data Secure Research Enclave solution benefits:

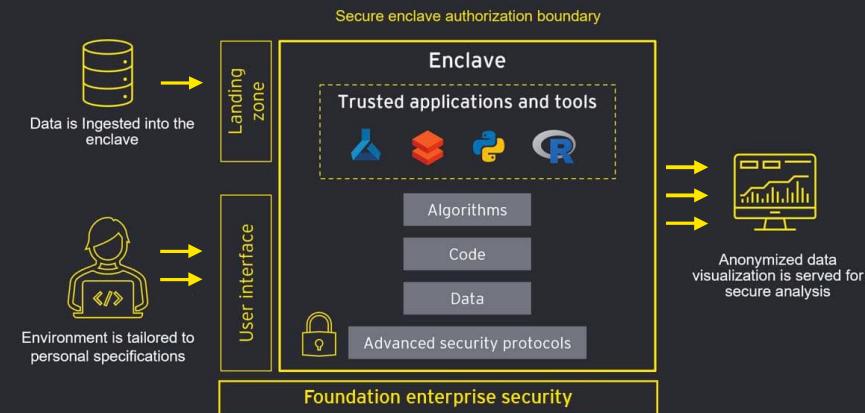
- ▶ Enhanced research experience:
 - ▶ Freedom to work with preferred software languages and technologies
 - ▶ Increased levels of collaboration between different researchers
 - ▶ Ability to use as much or as little cloud computing resources
- ▶ Increased researcher data access and usability:
 - ▶ Productive and easier research process with a more automated, simple, safe and trusted data analysis
- ▶ Security and IT support
 - ▶ Data is protected at rest and in transit, defense is applied to edge of network
 - ▶ Faster investigation times for potential breaches, active monitoring to environment
- ▶ Compliance and Audit:
 - ▶ FedRAMP compliance from Microsoft Azure to match government requirements
 - ▶ Access to tools that reduce cost and time to run specific security assurance requirements
 - ▶ Improved ability to enforce security policies at scale
- ▶ Benefits of Cloud:
 - ▶ Flexible compute capabilities, virtual machines with appropriate applications that instantly scale for high availability, performance and security

Scaling research while remaining compliant

The EY Azure Data Secure Enclave solution runs on specially configured Microsoft cloud services and storage optimized for security, helping researchers create ultra-secure environments called enclaves to protect data and provide compute capacity at cloud scale. In addition, the solution also streamlines efficiency and offers them secure access to a wide range of data types, content and analytical tools to enhance their research experience and unlock business value.

Bringing EY Azure Data Secure Enclave to life using Microsoft Azure

Conceptual diagram



Capability	Descriptions
Data and authorization boundary and fine grain access control	<ul style="list-style-type: none">• There is no need to download data.• Users are given access to data for least privilege and need-to-know basis.• Researchers that need access are granted access and can work freely.
End-to-end cloud experience	<ul style="list-style-type: none">• Flexible compute capabilities provide many virtual machine computing options based on specific needs to keep costs down.• Data science analytics tools and services are available to all researchers.• Resource scalability allows balancing of VM use with ease.

Customer success story: EY Azure Data Secure Enclave in action

Opportunity overview

This health care company needed a secure cloud platform to control the data sets and perform protected internal analysis. By leveraging Microsoft Azure services, encryption and security can help to secure research and development, storage of public health information and insights on health data.

Client challenges

The need for action was driven by the following factors. The Client:

- Was struggling to receive federal grants due to inability to adhere to platform security and compliance
- Saw a major increase in health care data and had inadequate secure platforms to store the data – this resulted in a lot of time spent on "hand-crafted" research environments

Solution delivered

EY teams performed the following to address the client challenges:

- Streamlined creation of secure environments with flexible tools and datasets combining imaging, records, structured and unstructured data.
- Implemented a full lifecycle of the secure enclaves that are automated and provided appropriate oversight to scale the offering on demand.
- Protected data through a secure infrastructure that meets compliance needs and provides integrated security.

Client benefits

The client was able to:

- Give their researchers and data scientists self-service while meeting confidentiality requirements
- Analyze larger amounts of data and drive better health care insights while enforcing compliance and security requirements within the cloud

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