EY Virtual
Analytics Infrastructure (EY Virtual)

The next-generation digital platform integrating human and machine intelligence
EY Virtual is a microservices-based AI and forensic data analytics platform available via cloud or on-premises. It supports risk management and investigative activities by providing actionable insights within a secure, efficient and scalable technology environment.

Key features:
- Pre-developed algorithms and applications to serve a wide range of sector-specific risk management needs.
- High-performance AI and analytics models that analyze routine and rule-based tasks.
- Seamless integration with many common enterprise applications, case management tools and data management applications.
- Multiple deployment options:
  - Robust front-office case management and reporting capabilities
  - Efficient back-office support through innovative case management and analysis techniques
- Seamless deployment space and secure cloud deployment
- Using data and artificial intelligence technologies coupled with investigative risk management to manage compliance risks across business operations.
- Enables or privacy compliance in how data is sourced, analyzed and presented.
- Supporting extendable implementation for better cost visibility and predictability.
- Modular design to increase the reusability of modules and reduce the time taken to develop new features and tasks.
- Support for data and application architectures that meet the security requirements of various industries.

Application ecosystem:
- Managing integrity risks
  - Legal risk
  - Fraud risk
  - Compliance risk
  - Security risk
  - Complexity risk
  - Cost efficiency
  - Interoperability and flexibility
  - End-to-end support
  - Security by design
- Plug-and-play
- Pre-processed data and algorithms that can be integrated with existing systems.

Architectural design:
- Principal elements:
  - User interface
  - Case management
  - Collaboration
  - Security risk
- Risk alerts:
  - Data integrity
  - Loss prevention
  - Digital content review
  - Conduct risk management
  - Compliance monitoring
- Analytics layer:
  - Machine learning
  - Link analysis
  - Social media analytics
  - Behavioral analytics
  - Voice analytics
  - Natural language processing
- Data fusion and governance layer:
  - Classification, modeling and scoring
  - Critical asset identification
- Security layer:
  - High-performance data lake environment

Sample data feeds:
- Sample data feeds:
  - Financial
  - HR
  - Legal
  - Sales
  - Internal data
  - External data

Risk alerts:
- High-risk alerts
- Near-real time alerts
- External triggers
- Human review

Machine learning combined with human review:
- Identifying and diagnosing risks through powerful, closed-loop feedback processes, leveraging knowledge gained from investigations and feedback from human review. Applications such as EY Virtual leverage the same models and algorithms used in identifying potential risk indicators.

Gartner Magic Quadrant for Data and Analytics Services 2021: EY Virtual is positioned as a leader in the high-performance data lake environment.