Gen AI powered Hybrid Cloud Architecture Validator

WHAT IS Hybrid Cloud Architecture Validator

An architecture blueprint forms the backbone of a digital transformation, it is critical to ensure that the architects develop and deliver accurate technical architecture blueprints regardless of the complexity of the cloud framework. Brillio's "Cloud architecture validator" solution leverages Generative AI to assist the technical teams to design and/or assess the quality of architecture against Azure well-architected framework and provide recommendations to optimize architecture blueprints.

Key features

Gen-AI based automated designing and validation of technical architecture according to Well Architected Framework

Risk Mitigation

- The validator could be used to generate a report that summarizes the security and compliance risks of a hybrid cloud architecture.

- This report could be used by architects, security teams, and compliance teams to make informed decisions.

Architecture Enhancer

- The validator could be used to generate a list of recommended corrective actions to mitigate security risks.

- This list could be used by architects and security teams to improve the security of the architecture.

Monitoring

- .The validator could be used to continuously monitor a hybrid cloud architecture for security risks

- This could be done by periodically running the validator against the architecture

Automation

- It can automate the validation process, which can save time and effort.

Accuracy

- It can be more accurate than manual validation, as it can identify potential risks that may not be obvious to humans.

Validation Bandwidth

- It can be used to validate a wider range of hybrid cloud architectures than manual validation.

- The bandwidth of its validation will help reduce time and cost

brillio

Brillio Solution Capabilities

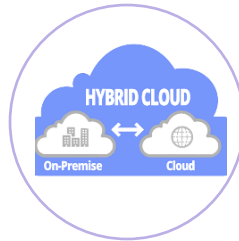*Generate diagram recommendations as per Cloud Well Architected Framework standards, using Diagram library of Python*

Generation of WAF Architecture Diagrams for Azure Cloud

Generation of WAF Architecture Diagrams for Google Cloud

Generation of WAF Architecture Diagrams for AWS Cloud

Generation of WAF Architecture Diagrams for Hybrid Cloud

- *Generation of Scorecard for comparison with AS-IS*
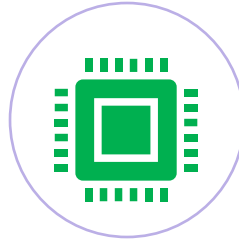- *Providing recommendations based on WAF pillar*

Business Benefits

Automated Assessment

The AI application automates the assessment process, saving time and effort compared to manual evaluation of architecture diagrams against the Well-Architected Framework

Consistency and Standardization

The application ensures consistent adherence to the Well-Architected Framework's principles, reducing the risk of overlooking critical design considerations

Identification of Improvement Area

Users receive a detailed report and recommendations for enhancing their architecture's compliance, security, cost optimization, and performance efficiency

Efficiency and Scalability

The AI application can process many architecture diagrams rapidly, making it suitable for evaluating architectures at scale

Learning and Continuous Improvement

The AI model can be continually trained and improved using user feedback and evaluation data, ensuring its accuracy and adaptability to evolving best practices

Knowledge Sharing and Collaboration

The application enables architects and teams to share, discuss, and collaborate on architecture designs, leveraging the insights and recommendations provided by the AI model