



Happiest Minds

Mar 2023







Well Architected Framework & Review

Overview



WHAT

The Azure Well-Architected Framework is a great tool to help us design a holistic cloud solution. The framework is applicable for existing workloads that are planned to be migrated, modernized, or new workloads.

If there is an existing workload, it is recommended that the organizations start with the Azure Well-Architected Review, which is a continuous process

- Make the app highly scalable and responsive to customer needs.
- Identify potential technological risks within a cloud ecosystem, helping organizations address faults within an existing framework

MHY

HOW

- ☐ Optimizing capacity as per your workload need
- ☐ Test workloads and applications at a production-scale before deploying them to production.
- ☐ Emphasis on architectures that is extendable & data driven
- ☐ Automate to drive continuous testing
- ☐ Schedule live-event simulations to help improve infrastructure

BENEFITS

- Better management of budget
- ✓ Improved workloads security
- ✓ Increased incident response
- ✓ Streamlined internal processes
- Avoidance of costly mistakes
- Efficient performance

Framework



Well Architected Review

Explore

- Define scope of review
- Identify the workload
- Gather Information
- Conduct work shops
- Interview stake holders
- Review 5 pillars
 - Operational Excellence
 - Security
 - Reliability
 - Performance Efficiency
 - Cost Optimization

Envision

- Evaluate the workloads against the best practices outlined in the framework.
- Identify any areas of improvement / Remediation
- Develop a remediation plan to address the identified issues and opportunities.
- Present remediation report, implement duration, cost and ROI

Remediate

Engineer

- Develop a remediation plan: Develop a remediation plan to address the findings and prioritize the implementation of the recommendations.
- Prioritize remediations with timeline and effort
- Execute recommended remediations
- Share ROI of remediations

Monitor

Enhance

- New workload deployment
- New workload migration
- New feature development and deployment
- Continuously monitor
 the Azure infrastructure
 to ensure that it remains
 in compliance with the
 Azure Well-Architected
 Framework and reassess
 the architecture
 periodically

Leveraging Mindful Thinking 4 E Framework

Challenges Addressed





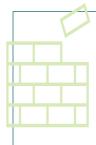
Poor performance: If the workload is not optimized properly, it may result in slow response times or low throughput. This can negatively impact user experience and overall productivity



High cost: Organizations may overspend on Azure resources, such as virtual machines or storage, leading to higher costs than necessary. This may happen due to overprovisioning, not utilizing discounts, or leaving unused resources running.



Security vulnerabilities: Workloads may not be secure enough, leaving them vulnerable to potential cyberattacks, data breaches, or unauthorized access.



Lack of scalability: Workloads that are not designed for scalability may face issues when the workload increases, leading to service outages or performance degradation.



Compliance issues: Organizations that need to comply with specific regulations, such as HIPAA or GDPR, may face compliance issues if their workload is not configured properly to meet those regulations.

Key Pillars





Reliability

- ✓ Test with simulations and forced failovers
- ✓ Deploy consistently
- ✓ Monitor health
- ✓ Respond to failure and disaster
- ✓ Identify System recovery from infrastructure or service failures



Security

- ✓ Identity and access management
- ✓ Infra protection
- ✓ App security
- Data encryption and sovereignty
- ✓ Security operations
- ✓ Risk assessments and mitigation strategies.



Cost Optimization

- ✓ Cost and usage monitoring
- ✓ Azure Hybrid Benefit
- ✓ Reserve Instances
- ✓ Shutdown and resize resources
- ✓ Move to PAAS
- ✓ Avoid unneeded cost
- ✓ Eliminate suboptimal resources
- ✓ Budget reductions due to lack of support for cloud adoption



Operational Excellence

- ✓ DevOps
- ✓ Deployments
- Monitor processes and cadence
- Communication mechanisms and dashboards
- Unclear expectations and business outcomes
- ✓ Visibility on root cause for events



Performance Efficiency

- ✓ Design for scaling
- ✓ Monitor new services deployments
- ✓ Guidance for technology and architecture selection
- ✓ Architecture design trade offs to achieve business goals

Tools & Digital Capital



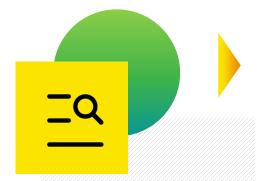
Tools	Description
Azure Well-Architected Review tool	Provides a questionnaire-based approach to evaluating workloads against the best practices outlined in the Azure Well-Architected Framework. It generates a report that highlights the strengths and weaknesses of the workload and provides recommendations for improvement.
Azure Advisor	Provides recommendations for optimizing Azure resources based on Azure best practices. It can help identify opportunities for cost savings, security improvements, and performance optimizations.
Azure Security Center	Provides a centralized view of the security posture of Azure resources. It can identify security vulnerabilities, provide recommendations for improvement, and help ensure compliance with security standards
Azure Monitor	Provides insights into the performance and health of Azure resources. It can help identify performance bottlenecks, troubleshoot issues, and optimize resource usage.
Azure Cost Management & Billing	Provides visibility into the costs of Azure resources and helps identify opportunities for cost optimization. It can help optimize spending, budget management, and cost allocation.

Enabled by Skills, Partnership, IP Assets and Frameworks

Mindful 4E Digital Transformation Framework

Execution Approach





Identify

- Identify the scope of the review and identify the workloads to be evaluated.
- Identify & map the resources and the stakeholders involved.



Detail

- Detail the workloads for architecture, design, and deployment
- Capture the network topology, storage, compute, security, and application design.



Evaluate

- Map and evaluate the current workloads against WAR Pillars & best practices
- Identify any areas of improvement and develop a plan to address them



Derive

- Strengths and weaknesses of the workload,
- Recommendations for improvement,
- Prioritized action plan.

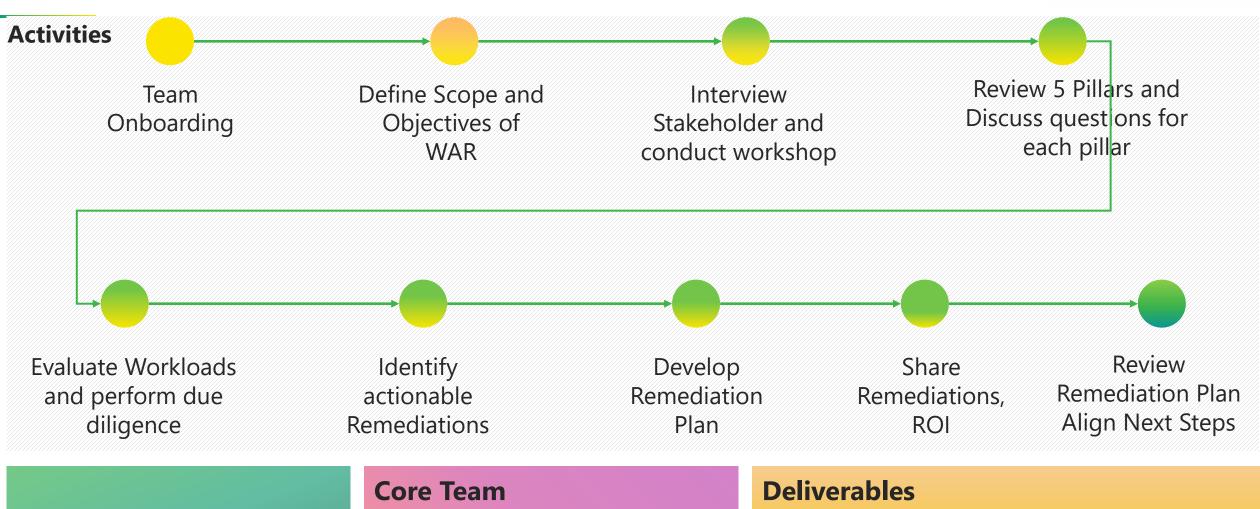


Publish

- Publish to the stakeholders involved,
- Discuss the findings and recommendati ons
- Next steps for improving the workload.

Execution Details





Duration

15 days

Solution Architect
Security Architect
Infrastructure Engineer

WAR Report
Remediation Report
Remediation Implementation Plan



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everything like a child and noticing the surroundings Listening Going beyond hearing and ligitaring with full attention to what is being said Being Mindful in the moment Doing Mindful Porceive Immorsively Process Non-judgemental Perform Empathetic

Observing