

AWS VERTICAL EXPERT

AWS CLOUD ADOPTION FRAMEWORK (CAF)

Digital Cloud Transformation

Digital Cloud Transformation are processes and methodologies that involves leveraging emerging technologies to facilitate organizational change, enabling businesses to adjust to evolving market conditions, satisfy customers, and expedite business results.



Digital Cloud Transformation

Digital Cloud Transformation helps you leverage cloud to transform your business digitally, AWS offers the cloud adoption framework that contains sets of foundational organizational capabilities.

A capability is described as the organizational ability to use processes effectively to allocate resources such as people, technology, and other assets towards achieving a specific goal or outcome.

In the context of AWS CAF (AWS Cloud Adoption Framework), these capabilities serve as guidelines or best practices to enhance the organization's readiness to utilize cloud services for digital transformation.

These foundational capabilities are like essential skills or tools that the organization possesses to make the transformation successful.



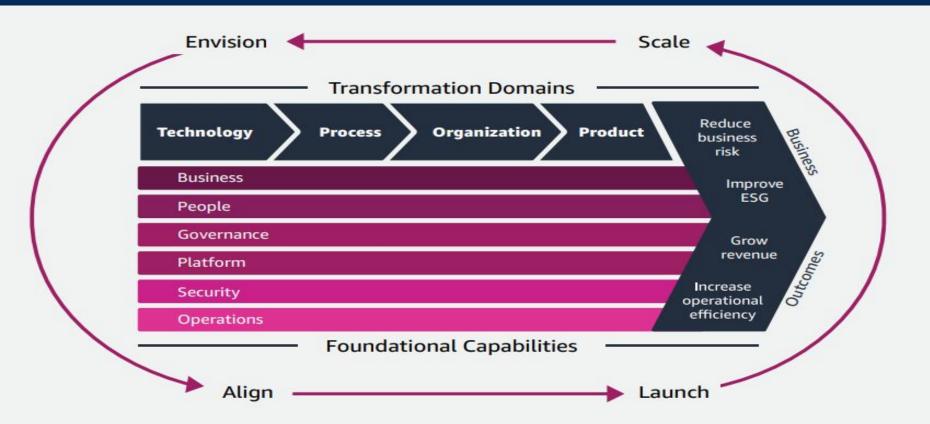
Transformation Domain

The transformation domains represent a value chain where technological transformation enables process transformation which enables organizational transformation that enables product transformation. Key business outcomes include reduced business risk, improved environmental, social and governance (ESG) performance, as well as increased revenue and operational efficiency.





Cloud Transformation Journey



AWS Cloud Adoption Framework

AWS Cloud Adoption Framework (AWS CAF) is a comprehensive model developed by Amazon Web Services to guide organizations through the process of cloud adoption and transformation.



AWS Cloud Adoption Framework

The AWS Cloud Adoption Framework (AWS CAF) leverages AWS experience and best practices to help you digitally transform and accelerate your business outcomes through the innovative use of AWS. AWS CAF groups its capabilities in six perspectives: Business, People, Governance, Platform, Security, and Operations. Each perspective comprises a set of capabilities that functionally related stakeholders own or manage in the cloud transformation journey

- Amazon Web Services



The Cloud Adoption Framework

PE	RSPECTIVE	PURPOSE	STAKEHOLDERS
	BUSINESS	Helps ensure that your cloud investments accelerate your digital transformation ambitions and business outcomes	· CEO · COO · CTO
8	PEOPLE	Serves as a bridge between technology & business, accelerating the cloud journey to help organizations more rapidly evolve to a culture of continuous growth, learning, & where change becomes business-as-normal, with focus on culture, organizational structure, leadership &workforce	 CTO · Cloud Directors COO · Cross-functional Leaders CIO · Enterprise-wide Leaders
	GOVERNANCE	Helps you orchestrate your cloud initiatives while maximizing organizational benefits and minimizing transformation-related risks	· CIO · CFO · CTO · CDO · CRO
(A)	PLATFORM	Helps you build an enterprise-grade, scalable, hybrid cloud platform; modernize existing workloads; and implement new cloudnative solutions	Technology leaders Architects Engineers
	SECURITY	Helps you achieve the confidentiality, integrity, and availability of your data and cloud workloads.	 Internal Audit Leaders Security Architects Engineers CISO CCO
	OPERATIONS (Helps ensure that your cloud services are delivered at a level that meets the needs of your business.	Infrastructure & Operations LeadersSite Reliability EngineersIT Service Managers

AWS CAF at a glance

AWS CAF perspectives and foundational capabilities



Business

Ensure that cloud investments accelerate your digital transformation ambitions and business outcomes.

- Strategy Management
- Innovation Management
- Strategic Partnership
- · Business Insights

Culture Evolution

- Product Management
- Portfolio Management
- Data Science
- Data Monetization



People

Evolve to a culture of continuous growth and learning, where change becomes business-as-usual.



 Workforce Transformation Transformational Leadership Organizational Alignment

- · Change Acceleration · Organization Design
- Cloud Fluency



Governance

Orchestrate cloud initiatives. maximize organizational benefits, and minimize transformation-related risks.



- Cloud Financial Management
- Application Portfolio Management
- Risk Management
- Benefits Management
- Data Curation
- Data Governance



Accelerate delivery of cloud workloads via an enterprisegrade, scalable, hybrid cloud environment.

Platform Architecture

Development

- · Platform Engineering · Provisioning and Orchestration
- Modern Application
- Data Engineering
- Data Architecture
- Continuous Integration and Delivery



Security

Platform

Achieve confidentiality, integrity, and availability of data and cloud workloads.



- Security Governance
- · Vulnerability Management
- Incident Response
- Application Security
- Threat Detection
- Data Protection
- Security Assurance Identity and Access
- Management

Patch Management



Operations

Ensure cloud service delivery at a level that satisfies your business stakeholders.

- Event Management (AIOps) · Incident and Problem
- Configuration Management
- Application Management
- · Availability and Observability
- · Change and Release

Continuity Management



Business Perspective Capabilities

The business perspective focuses on ensuring that your cloud investments accelerate your digital transformation ambitions and business outcomes. It comprises eight capabilities shown in the following figure. Common stakeholders include the CEO, CFO, COO, CIO, and CTO.

Strategy Management	Leverage cloud to accelerate your business outcomes
Product Management	Manage data and cloud-enabled offerings as products
Business Insights	Gain real-time insights and answer questions about your business
Portfolio Management	Prioritize delivery of high-value cloud products and initiatives
Strategic Partnership	Build or grow your business through a strategic partnership with your cloud provider
Data Science	Leverage advanced analytics and machine learning to solve complex business problems
Innovation Management	Develop new processes, products, and experiences and improve existing ones
Data Monetization	Leverage data to obtain measurable business benefit

People Perspective Capabilities

The people perspective serves as a

bridge between technology and business, accelerating the cloud journey to help organizations more rapidly evolve to a culture of continuous growth and learning, where change becomes business-as-normal. In addition to culture, the focus is on organizational structure, leadership, and workforce. This perspective comprises seven capabilities shown in the following figure. Common stakeholders include CIO, COO, CTO, cloud director, and crossfunctional and enterprise-wide leaders.

Design

Culture Evolution	Evaluate, incrementally evolve, and codify organizational culture with digital transformation aspirations
Workforce Transformation	Enable talent and modernize roles to attract, develop, and retain a digitally fluent and high-performing workforce
Transformational Leadership	Strengthen leadership capability and mobilize leaders to drive transformational change
Change Acceleration	Accelerate adoption of the new ways of working by applying a programmatic change acceleration framework
Organizational Alignment	Establish ongoing partnership between organizational structures, business operations, talent, and culture
Cloud Fluency	Build digital acumen to confidently and effectively leverage the cloud to accelerate business outcomes
Organization	Assess and evolve organization design for alignment

with the new cloud ways of working

,	Program and Project Management	Deliver interdependent cloud initiatives in a flexible and coordinated manner
Governance Perspective Capabilities	Cloud Financial Management	Plan, measure and optimize your cloud spend
The governance perspective focuses on orchestrating your cloud initiatives while maximizing organizational benefits and minimizing transformation-related risks. It comprises seven capabilities shown in the following figure. Common stakeholders include chief transformation officer, CIO, CTO, CFO, CDO, and CRO.	Benefits Management	Ensure that the business benefits of your cloud investments are realized and sustained
	Application Portfolio Management	Manage and optimize your application portfolio in support of your business strategy
	Data Curation	Organize an inventory of data products in a data catalog
	Risk Management	Leverage the cloud to lower your risk profile
	Data Governance	Exercise authority and control over your data to meet stakeholder expectations

	Platform Architecture	Establish guidelines, principles, patterns, and guardrails for your cloud environment
Platform Perspective Capabilities	Data Engineering	Automate and orchestrate data flows throughout your organization
	Data Architecture	Design and evolve a fit-for-purpose analytics and data architecture
The platform perspective focuses on accelerating the delivery of your cloud workloads via an enterprise-grade, scalable, hybrid	Provisioning and Orchestration	Create, manage, and distribute catalogs of approved cloud products to end users
cloud environment. It comprises seven capabilities shown in the following figure. Common	Continuous Integration and Delivery	Rapidly evolve and improve applications and services
stakeholders include CTO, technology leaders, architects, and engineers.	Platform Engineering	Build a compliant cloud environment with enhanced security features and packaged, reusable products
	Modern Application Development	Build well-architected cloud-native applications

Security Perspective Capabilities

The security perspective helps you achieve the confidentiality, integrity, and availability of your data and cloud workloads. It comprises nine capabilities shown in the following figure. Common stakeholders include CISO, CCO, internal audit leaders, and security architects and engineers.

Security Governance	Develop and communicate security roles, responsibilities, policies, processes, and procedures
Threat Detection	Understand and identify potential security misconfigurations, threats, or unexpected behaviors
Data Protection	Maintain visibility and control over data and how it is accessed and used in your organization
Security Assurance	Monitor, evaluate, manage, and improve the effectiveness of your security and privacy programs
Vulnerability Management	Continuously identify, classify, remediate, and mitigate security vulnerabilities
Application Security	Detect and address security vulnerabilities during the software development process
Identity and Access Management	Manage identities and permissions at scale
Infrastructure Protection	Validate that systems and services within your workload are protected
Incident Response	Reduce potential harm by effectively responding to security incidents

Operation Perspective Capabilities

The operations perspective focuses on ensuring that cloud services are delivered at a level that is agreed upon with your business stakeholders. Automating and optimizing operations will allow you to effectively scale while improving the reliability of your workloads. This perspective comprises nine i capabilities shown in the following figure. Common stakeholders include infrastructure and operations leaders, site reliability engineers, and information technology service managers.

Observability	Gain actionable insights from your infrastructure and application data
Event Management (AiOps)	Detect events, assess their potential impact, and determine the appropriate control action
Incident and Problem Management	Quickly restore service operations and minimize adverse business impact
Change and Release Management	Introduce and modify workloads while minimizing the risk to production environments
Performance and Capacity	Monitor workload performance and ensure that capacity meets current and future demands
Configuration Management	Maintain a record of cloud workloads, their relationships, and configuration changes over time
Patch Management	Systematically distribute and apply software updates
Availability and Continuity	Ensure availability of business-critical information, applications, and services
Application Management	Investigate and remediate application issues in a single pane of glass

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AWS Cloud Readiness Assessment

View Assessment

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ASSESSMENT OF THE PARTY OF THE	
Strategy management	
Are you using cloud to enable and shape your long-term business goals?	
○ 1 - No / I don't know.	
2 - Starting to think about it.	
 3 - Experimenting with pilot initiatives. 	
 4 - Yes, but inconsistently implemented across the organization. 	
5 - Yes, and consistently implemented across the organization.	

Portfolio management

Are you prioritizing your cloud initiatives in line with your strategic intent, operational efficiency, and your capacity to deliver?

1 - No / I don't know.

- 2 Starting to think about it.
- 3 Experimenting with pilot initiatives.
- 4 Yes, but inconsistently implemented across the organization.
- 5 Yes, and consistently implemented across the organization.

Innovation management

Are you leveraging cloud to develop new, and improve existing, processes, products, and experiences?

- O 1 No / I don't know.
- 2 Starting to think about it.
- 7 Evacrimenting with pilot initiatives

AWS Cloud Readiness Assessment

Start Assessment

Assess your organization's readiness for cloud-powered digital business transformation.

The AWS Cloud Adoption Framework (AWS CAF) leverages AWS experience and best practices to help you digitally transform and accelerate your business outcomes through innovative use of AWS. Use this assessment to evaluate your cloud readiness and identify gaps and opportunit against 47 AWS CAF capabilities, across six perspectives.

AWS Cloud Readiness Assessment Summary Report

See your responses and scores across the six AWS Cloud Adoption Framework (CAF) perspectives summarized in detail

Assessment Summary			
∆Business Section			
Strategy management	Recommended Actions		
Questions: An you using class to enable and shape your long-term business goals? Response: 2 - Starting to think about it. Rating: 2	Strategy enanagement location of control of the co		
Portfolio management Question: An you priorizing your could initiatives in line with your strategic interr, operational efficiency, and your capacity to deliver? Responses: 3- Experimenting with pilot initiatives.	Condidor how new or improved cloud-enabled products and services can help you much more untertiened or enter new market segments. Printing your strategic objectives and evolve your strategy over time in resource to technological developments and changes in your business environment. Partfolio management Levergue automated discessey tools and the seven common nigration strategies for moving applications to the cloud forcements of Pilit to retensible your existing application portfolio and build a data-driven business case.		
Rating 3	Balance your cloud portfolio by considering after term and long-term outcomes as well as low-risk (prower) and higher-risk (experimental) opportunities. Include regretor, modernazion, and monovation initiatives, and consider financial and non-financial portellar. Opinitar be business value of you portfolio in line with your resource, financial, and schedule constraints.		
Questions: Are you leveraging cloud to develop new, and improve existing, processes, products, and experiences? Response: 1-Starting to think about it. Refuge: 2	 To reduce your time-to-value, consider increasing the frequency of your planning cycles or adopting a continuous planning strategy. Innovation management Develop an innovation strategy that includes a risk of incremental innovation initiatives focused on optimizing your existing products, processes, and experiences, as well as disruptive innovation initiatives focused on enabling new business models. 		
Product management	 Create mechanisms for soliciting and selecting ideas in line with your startegic priorities, and develop an end-to-end process for scaling successful innovation pilots. Preduct management Develop a balanced product portfolio that supports your business strategy. 		
Question: On the year organizer your cross-functional teams around cloud-enabled digital products? Response: 2 - Starring to think about it. Rating: 2	 Establish small, enduring, and empowered cross-functional teams that champion the needs of internal and external customers. Identify product owners, understand customer journeys, define and create product randmaps, and manage end-to-end product lifecycles and associated value streams. 		
Strategic partnership	 Leverage your cloud planform and agile methods to rapidly iterate and evolve. Reduce dependencies between product teams and effectively integrate them into your broader operating model via well-defined interfaces. 		
Question: Are you leveraging your cloud provider to build or grow your business? Response: 4 - Yes, but inconsistently implemented across the organization. Rating: 4	Strategic partnership If you offer clouds hosted software solutions, cloud-integrated products, or cloud-related professional, consulting, or managed services, strategically partnering with your cloud provider can help you build your cloud expertise, promote you solution to continents, and drive successful continent engagements.		
Data monetization	 As you progress along your partnership journey, Inverage promotional credits, funding benefits, and co-selling opportunities to help you build or grow your builders. Leverage your cloud provider's marketplace channel to expand reach, and technical resources to help you mature your cloud-based products and services. 		
Question: Have you identified opportunities for leveraging data to improve operations, customer and employee experience, decision-making, or to enable new business models? Response 5 - Yes, and consistently implemented across the organization.	 Publish joint case mudes to highlight success in solving specific business challenges. Data menetization To obtain measurable business benefits, develop a comprehensive and long-term data momentation strategy than's aligned with your strategy intern. To obtain measurable business benefits, develop a comprehensive and long-term data momentation strategy than's aligned with your strategy intern. To obtain measurable business benefits, develop a comprehensive and long-term data momentation strategy than's aligned with your strategy intern. To obtain measurable business benefits, develop a comprehensive and long-term data momentation strategy than's aligned with your strategy intern. To obtain measurable business benefits, develop a comprehensive and long-term data momentation strategy than's aligned with your strategy intern. 		
Business insights	recurs on transactionaria value that heigh you uncertain and complete outlines transactions, informational value that heigh you destron past performance and inner concusions, and analytical value that heigh you automate activities, guide decisions, and predict outcomes. Moreotic data internally within your organization before considering opportunities for external monetization for example, selling data via a marketplace).		
Question: Are you able to gain real-time insights and answer questions about your business? Response: 4 - Yes, but inconsistently implemented across the organization. Ratiling: 4	Business insights • Establish cross-functional analytics teams with a good understanding of the business context. • Focus on technical (such as statistics) and non-technical (such as visualization and communication) skills.		
Data science	 Align your analytics efforts with business goals and key performance indicators (DPIn). Leverage a brase catalog to locate relevant data products, and visualization tools and rechniques to discover trends, patterns, and relationships in the data. 		
Obestion: Do you leverage experimentation, advanced analytics, and machine learning to solve compiles business problems? Response: 4 - Yes, but inconsistently implemented across the organization. Rating: 4	Consumer of using purpose freedom is used product, and reconstruction to an an extractive treatment purpose to enhance treatment purpose to the treatment of the purpose to the second of the desired of the second of the se		
	Unrestration travel you're travel preferences and cleaning any profession suices. Deploy usuable models for some preferences and moment per performance. To motigate risk, delegate low confidence predictions for human review.		

Practice Questions



Question 1

Which of the following are the relevant stakeholders in the Platform perspective of the AWS Cloud Adoption Framework (AWS CAF)? (Select two)

- A. Technology Leaders
- B. Chief Financial Officer (CFOs)
- C. IT Architects
- D. Chief Information Security Officer (CISO)
- E. Chief Information Officer (CIOs)



Question 6

A company plans to migrate its existing on-premises infrastructure to the AWS Cloud. Since their current business workflows heavily rely on legacy systems, they want to evaluate their AWS Cloud readiness first and prioritize any business transformation opportunities before commencing their migration activities.

Which AWS service or tool can the company use to help them meet these requirements?

- A. AWS Prescriptive Guidance
- B. AWS Cloud Adoption Framework (AWS CAF)
- C. AWS Migration Hub
- D. AWS Support

ANSWER: B

Question 12

Which of the following options is an AWS Cloud Adoption Framework (CAF) perspective specifically tailored to ensure your cloud investments expedite your digital transformation goals and business outcomes?

- A. Governance perspective
- B. Business perspective
- C. People perspective
- D. Operations perspective



DON'T FORGET TO DO HARD THINGS

