

20 October, 2022



Rapid innovation with the transformative power of modern applications

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Topics

Defining modern business What is our problem or opportunity?

Defining how modern applications enable modern business How did we get here?

Understanding how compute enables modern applications and benefits a modern business



Why modernize?

SPEED TO INNOVATION

AGILITY TO CHANGE WHAT MATTERS

REDUCED RISK

IMPROVED OPERATIONAL EFFICIENCY

COST AND VALUE CONTROL

Time to market

Modern businesses gain accelerated path to reaching out to new and existing customers

Opportunity to change

Capitalize on new opportunities when they present themselves

Assurance and guard rails

Rapid experimentation and mitigation without the potential of high scale collateral impact

Customer engagement

Manage, maintain and improve differentiation

Cloud platform and services

Freeing up resources to focus on business value, customer outcome in a pay for value model





Half a Billion...

The number of new applications will be built between 2020 and the end of 2023, more than 40 years of application development



Why now?

'Disrupt and avoid disruption' is becoming a common viewpoint



Enterprises focused on modernization will adapt to disruption faster



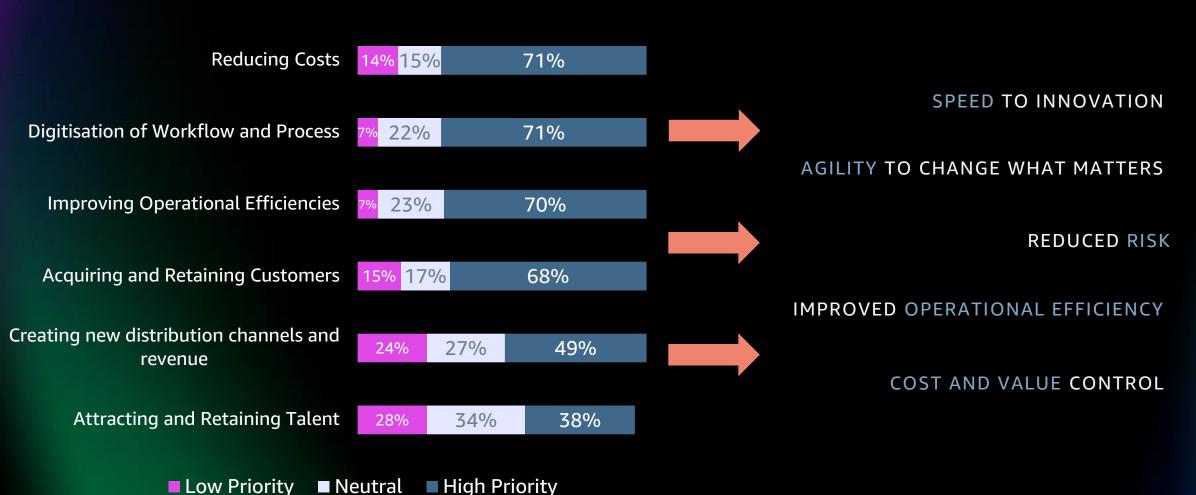
Enterprises will shift to cloud-centric infrastructure and applications



Technical debt will cause financial stress and drag on IT agility



Why now? Modernizing directly aids the new norm





The transformative power of application modernization

Management challenge



AWS provides direct access to business value

Focus on creating business value

CUSTOMER —

Business logic

API

Messaging & orchestration

Storage & databases

Compute

Physical infrastructure

Innovation

comes from doing more of this

Remove heavy lifting with modern applications

comes from doing less of this



Compute evolution - A shift for modernization

	LEVEL OF MODERNIZATION				
	ON-PREMISES	VIRTUAL MACHINES (Amazon EC2 / VMware Cloud on AWS)	CONTAINERISATION (Amazon ECS/Amazon EKS)	SERVERLESS (AWS Lambda/AWS Fargate)	
Application code					
Data source integrations					
Capacity planning and scaling					
Software install and maintenance					
Infrastructure provisioning					
Physical server, storage, networking, and facilities					
Security and network configuration					

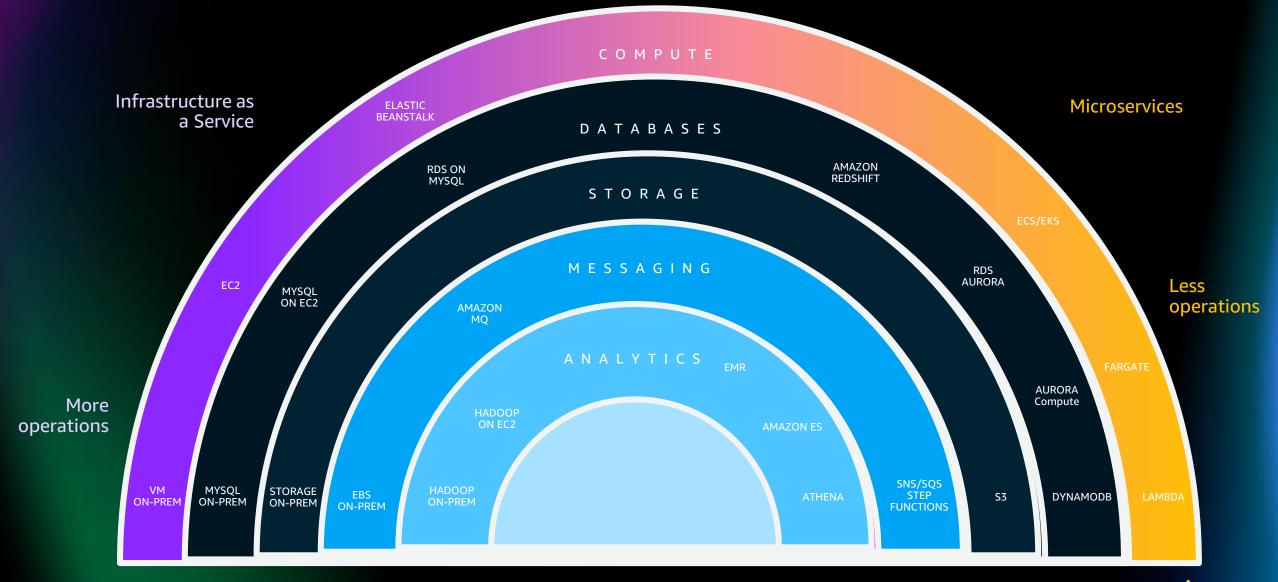
AWS

CUSTOMER



MANAGED BY

Compute is an operational concept





How much impact does this really have?

	laaS 'machine images'	PaaS 'containers'	FaaS 'serverless'
% productivity increase	10-20%	20-30%	30-40%
Time to market	Monthly to fortnightly	Fortnightly to as needed	Daily to multiple times per day
Change vs run ratio	40:60	50:50	70:30

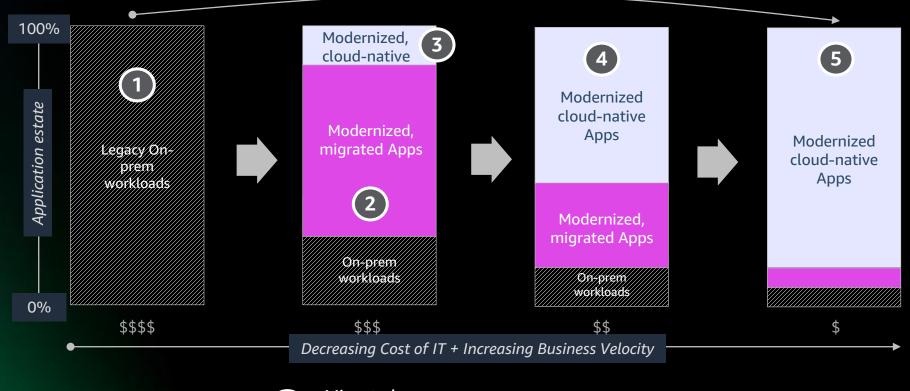


Modernization paths - what to prioritize?

MODERNIZATION PATH	FOCUS ON
Build new (Cloud-native)	Serverless, event-driven architecture
Re-platform (Migrate to modernize)	a/Containerization, b/Cluster migration
Re-factor (Re-architect)	Modernize architecture, software delivery, operations
Modern operations / Shared services platform	Consistent tooling, governance, guardrails, GitOps, operational model



Adoption pattern: Organic modernizing of workloads

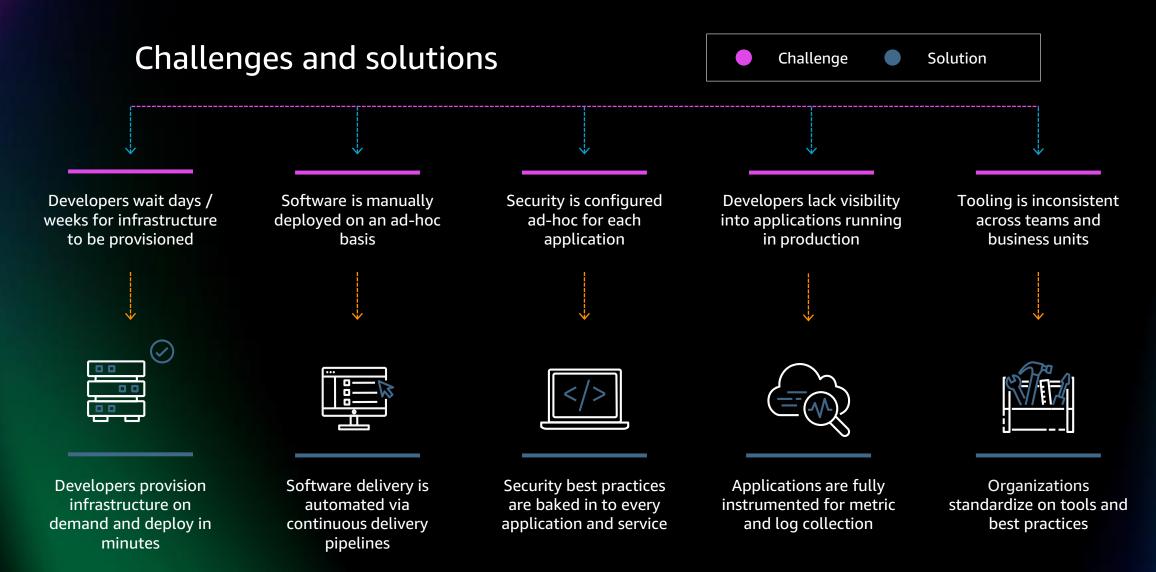


- Conduct
 assessment /
 Pilot
- Migrate legacy workloads
- Modernize, or build new cloud-native workloads
- Transition

 Migrated legacy workloads to modernized workloads
- Complete
 cloud-native
 Transformation



In closing – What does good look like?





Visit the Modern Applications resource hub

Dive deeper with these resources to help you develop an effective plan for your modernization journey.

- Build modern applications on AWS
- Business value of cloud modernization
- An introduction to event-driven architectures
- Accelerate full-stack web and mobile app development
- Determining the total cost of ownership: Comparing serverless and server-based technologies
- Building event-driven architectures with AWS
- Continuous learning, continuous modernization



https://tinyurl.com/modern-apps-aws

Visit resource hub

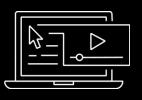


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Thank you!

