



Industry Playbook – For AWS Partners

This is a compilation of discovery questions and AWS use cases by industry where partner sales reps can easily search for materials as part of their pre-call preparation. Purpose is to equip partners with industry-related knowledge and use cases to help open up more conversations and steer away from product-specific conversations.

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Financial Services

Capital Markets

Wealth & Asset Management, Trading Systems, Compliance Surveillance, Risk Management, Financial Modelling, Exchanges/Trading Platforms/Clearing Houses, Financial Data.

Category	Questions	Customer Case Study	How AWS can help
Customer Experience	<p>How do wealth and asset managers understand their clients today?</p> <p>Are they able to offer the most relevant, personalized products, services, and experiences for them?</p> <p>How are you leveraging cloud in your day-to-day operations today to improve internal procedures and serve your customers better?</p>	<p>Fidelity: wanted to provide customers with market insights without the need to call an agent. In just five weeks, the company built an Alexa skill to enable customers to obtain market updates or quotes by enabling the skill on their devices. Fidelity also created a proof of concept virtual financial assistant named Cora using Amazon Sumerian, Amazon Lex, and Amazon Polly. Cora hosts multi-user conversations in a "virtual chat room" built on AWS.</p>	<p>1. Customer 360 portal: Offer a 360-degree customer view and provides insights about channels, interactions, requests, and sentiment associated with each interaction. This is a representation on how you can integrate this information into your current CRM or own platform to get insights about customer behavior and interaction history.</p> <p>3. Cloud Contact Center: Amazon Connect provides a seamless experience across voice and chat for your customers and agents. After call or chat ends, a workflow is triggered to run analytics and machine learning to get voice-to-text transcription and sentiment analysis.</p> <p>4. Conversational Chatbots: This solution deploys an Amazon Lex bot that supports integrations made with Amazon Connect, Facebook Messenger, and a webpage chat widget. This bot implements the same interaction model used by the Alexa Skill, providing the same experience regardless which bot the customer consumes.</p>
Risk Management	<p>How is your current infrastructure supporting the need for back-testing models, stress testing, transaction surveillance, anomaly detection, algorithmic trading, and forecasting?</p>	<p>Morningstar: With AWS, Morningstar's platform is now 160x faster and reduces calculation time by about 98%, which enabled the company to expand from 50,000 assets to over 5 million, and perform model validation and statistical QA that was not possible in their old architecture.</p> <p>Coinbase: develops a machine learning-</p>	<p>1. Grid Computing: By leveraging the scale of the compute grid on AWS using Amazon EC2, scheduling software and auto-scaling groups, customers are able to backtest trading models and run risk simulations securely and efficiently.</p> <p>2. Build a risk management ML workflow: Amazon SageMaker is a fully managed ML platform that allows data engineers and business analysts to quickly</p>

	<p>What types of financial simulations do you run on a regular basis?</p> <p>Are there simulations you would like to run (e.g. for risk management) but can't due to a lack of capacity or budget constraints?</p>	<p>driven system that recognizes mismatches and anomalies in sources of user identification to take action against potential fraud.</p> <p>AQR Capital: By using Amazon EC2 instances and Spot by AWS Batch, AQR processed more than 75 years of compute workload at a very low cost. AQR used different instance types and AZs to drive the lowest cost to \$15 for 500 physical cores.</p>	<p>and easily build, train, and deploy ML models which can be used for e.g. to predict loan status for potential customers.</p> <p>3. Price forecasting using Amazon S3, Redshift/EMR to store data, and Amazon Forecast, a fully managed time-series forecasting service based on machine learning to predict any changes or to determine the right price for customers' products.</p> <p>4. Fraud detection: Using Amazon Fraud Detector, it is now possible for customers to train the Transaction Fraud Insights model and use the model to generate fraud predictions. These can help to detect and prevent securities fraud and money laundering activities in capital markets.</p> <p>5. Transaction cost analysis: Customers are able to inject trade and transaction data feeds using Amazon SQS and Amazon Kinesis Streams for analysis.</p>
Data Analytics and Machine Learning	<p>How are you currently capturing customer data to gain deeper customer insights? Are you leveraging enhanced analytics and AI/ML to discover alpha or new investment opportunities for your business?</p>	<p>Nasdaq: Nasdaq moves an average of 30 billion rows into Amazon Redshift everyday (with 60 billion on a peak day), and uses the service to power its data analytics applications.</p> <p>FINRA: built a data lake on AWS using Amazon S3 and EMR to store and analyze data. FINRA monitors 100% of equities & 100% of options activity and needed an infrastructure that could process 75 billion market events on average each day and dynamically scale to process 155 billion records on a peak day.</p> <p>Moody's: built a viable end-to-end machine learning platform in 4 weeks to predict a rating using only publicly available data.</p>	<p>1. Obtaining real-time market data: Using the connectivity and networking options available on AWS, customers are able to both distribute and consume real-time market data, enabling easy scaling and deeper analytics and insights</p> <p>2. Data lakes for post-trade analytics: Data lakes on AWS enable customers to ingest, process, and store market events on an average day and scale up to handle hundreds of billions of events on a peak day to support markets surveillance, billing, reporting, and research</p> <p>3. Build and train machine learning models with Amazon SageMaker, Redshift/EMR for predictive analytics and market/trade surveillance e.g. to identify new investment signals. Services like Amazon Forecast for time-series forecasting can also be used</p>

			<p>to determine future asset demand and derivative pricing, to develop new products that can help your brokers, dealers and asset managers to grow your business.</p> <p>4. Transaction cost analysis: Customers are able to inject trade and transaction data feeds using Amazon SQS and Amazon Kinesis Streams for analysis.</p>
Data Management - Compliance & Reporting	<p>What are some of the regulations that require significant reporting efforts for your organization?</p> <p>Is the data you need for regulatory reporting spread across multiple silos?</p> <p>If you are not already using AWS, is it due to any security or compliance reasons?</p>	<p>Nasdaq: needed to provide greater accessibility to data for internal groups and regulators. For this, they built a data lake on Amazon S3 and chose Redshift to realize cost efficiencies and fulfill security and regulatory requirements.</p> <p>Robinhood: needed a highly scalable online platform with built-in security and compliance for mobile trading. Robinhood used AWS to build the app and supported hundreds of thousands of users at launch, which has grown to over 10 million users, with strong built-in security and compliance features.</p>	<p>1. Data lineage and traceability: Amazon CloudTrail can be used to log, monitor, and retain account activity/any changes made to data across the AWS Infrastructure for auditioning needs.</p> <p>2. Regulatory reporting e.g. Consolidated Audit Trail (CAT). Redshift logs information about connections and user activities in your database. Amazon Aurora MySQL supports advanced auditing. The audit trail should be immutable.</p> <p>3. Cyber event recovery: Using S3 to store immutable and multiple copies of the data, Amazon Macie to scan data at rest to identify anomalies and check for changes in data, track unauthorized access to data using AWS Audit Manager and Config rules.</p> <p>4. Transaction and communication surveillance: FSIs are able to streamline capacity with cloud-based solutions that capture a variety of communication data formats. Archiving (using S3), supervision, and e-discovery processes are simplified with machine learning, data analytics and the help of Lambda and Redshift to enable institutions to focus on innovation, growth, and delivering communications compliance.</p>
Core Systems Modernization	How are you thinking about core modernization? (or mainframe migration)	Vanguard : chose AWS to help modernize its traditional, heavily virtualized tech stack, big data platforms, monolithic applications, and a PaaS running microservices. By using AWS, Vanguard has been able to lower compute	<p>1. Simplify migration from on-premise server and workloads using services like AWS Application Migration Service and AWS Database Migration Service. Customers can also leverage AWS Mainframe Modernization, which is a set of managed tools</p>

		<p>costs by 30%, has 30% faster application development, and 70% less unplanned downtime.</p> <p>Nasdaq: AWS and Nasdaq announced a multi-year partnership in 2021 to build the next generation of cloud-enabled infrastructure for the world's capital markets.</p>	<p>providing infrastructure and software for migrating, modernizing, and running mainframe applications.</p> <p>2. Integrating with ISVs and other Marketplace solutions to accelerate performance with speed and security e.g. Calypso and Murex for Core systems modernization, DataRobot for Data Analytics etc.</p>
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Insurance

Category	Questions	Customer Case Study	How AWS can help
Customer Experience Digital Channels	Do you currently offer personalized recommendations to your customers? How do you target new customers? Are your channels able to handle spikes in volumes? e.g. during Covid/other peak periods Would you say you have a policy platform, or a customer engagement platform? How would you rate the claims experience you are providing your policyholders? What is the process like now? How are you supporting your agents, brokers and advisors?	<p>Unum: Unum began a journey to build an omnichannel customer engagement platform using AWS services, including Amazon Connect, Amazon Pinpoint, and Amazon Lex. Early benefits include an increase in the use of self-service channels, improved economics of the contact center, and increased employee satisfaction with intuitive tools and simplified call center management.</p> <p>FWD: FWD wanted to simplify the claims process and create better customer experiences while reducing prices. By building a data lake on AWS, FWD was able to automate and expedite claims processing (down to the same day in some cases), and release a first-of-its-kind chatbot that allows customers to file claims in minutes.</p>	<p>Use Cases/Solutions:</p> <ol style="list-style-type: none"> 1. Customer 360 portal 2. Cloud Contact Center: Amazon Connect 3. Conversational Chatbots: Amazon Lex, Amazon Connect 4. Multichannel marketing communication service: Amazon Pinpoint collects metrics about channel usage per customer and allows to segment audience to create outbound campaigns over channels like email, SMS, push, or voice. 5. Expedite claims processing: Amazon Textract automatically extracts text, handwriting, and data from scanned documents beyond simple optical character recognition (OCR) to identify, understand, and extract data from forms and tables. This can help to digitize and automate its claims process. 6. Agent/broker portals: Agents and brokers are able to align with client information and conduct their day to day tasks through this application built using a combination of Lambda, DynamoDB to store data, AWS Transit Gateway to ensure a highly secure environment connected by VPC and Amazon CloudTrail to track access.
Risk Management	Do you have models that take too long to run? What modeling applications do you use? How are you currently handling actuarial,	<p>Aon: Aon spins up large numbers of Amazon EC2 GPU instances to support PathWise, its financial modeling tool, making it 500 times more cost efficient for its clients and reducing a 10-day process to 10 minutes.</p> <p>AXA: AXA wanted to provide better risk</p>	<p>Use Cases/Solutions:</p> <ol style="list-style-type: none"> 1. Grid Computing: By leveraging the scale of the compute grid on AWS using Amazon EC2, scheduling software and auto-scaling groups, customers are able to backtest financial models e.g. actuarial, investment, catastrophe modeling and run risk simulations securely and efficiently.

	investment, and catastrophe modeling?	<p>assessment and real-time risk monitoring to its marine insurance business customers. It leveraged AWS to build a risk management platform by storing and processing a high volume of geolocation and weather data with an AI layer on top to score and compare different clients on navigational-based factors e.g. trading patterns. Their loss ratio improved (they were able to price risks more accurately), contributed to Solvency II ratio through better exposure monitoring and loss estimations; and they generated additional earned premium by validating vessel activity against policy clauses.</p>	<p>2. Price forecasting using Amazon Forecast a fully managed time-series forecasting service based on machine learning to predict any changes or to determine the right price for customers' products based on current market conditions e.g. COVID-19.</p>
Data Analytics and Machine Learning	<p>How are you achieving a single customer view?</p> <p>How do you provide the next best offer/action guidance to your producers?</p> <p>What is your analytics strategy?</p> <p>How are your loss ratios?</p>	<p>AXA: AXA migrated its data lake to AWS to facilitate improved analytics and digital innovation. With its data lake built on AWS, AXA can better analyze sentiment in customer service interactions to deliver proactive solutions and offers. AXA is able to build new products that allow customers to apply for new policies and make claims from their mobile devices.</p> <p>FWD: FWD wanted to simplify the claims process and create better customer experiences while reducing prices. By building a data lake on AWS, FWD was able to automate and expedite claims processing (down to the same day in some cases)</p> <p>Allianz: Allianz Trade launched a ML solution using Amazon SageMaker to quickly detect any suspicious domains registered that could be used to exploit its brand or its products. This ML service took less than 7 months to build from ideation to production and can now</p>	<p>1. Policy underwriting and claims processing: Cloud-based data lakes help liberate data from core systems and ingest data from external sources, making it easier to store, stage, and process unstructured data such as images and documents related to underwriting and claims together with AI/ML services like Amazon Textract.</p> <p>2. Fraud detection: Claims data stored in data lakes is a rich target for AI/ML models using Amazon SageMaker. These models help mine larger data sets and uncover new signals that lead to identifying fraud or other factors that can help insurers reduce loss ratios.</p> <p>3. Customer insights and Predictive Analytics: Data lakes make internal data more accessible and help insurers to enrich their data with external and unstructured data sources. Running AI/ML models against the broader data leads carriers to new customer insights to support next best action/offer, better so with data visualization tools like Amazon Quicksight.</p>

		identify URL squatting fraud within 24 hours after the creation of a malicious domain.	
Data Management - Compliance & Reporting	<p>Are there any regulatory changes which concern you?</p> <p>Is the data you need for regulatory reporting spread across multiple silos?</p> <p>If you are not already using AWS, is it due to any security or compliance reasons?</p>	<p>AXA: Being a global entity, AXA needed to ensure the migration of its workloads to the cloud were secure and compliant. They set up a global landing zone to accelerate its migration using 11 AWS management and security services. The firm built a CI/CD pipeline to automate the delivery of the landing zone to all accounts and built a cloud data lake to maintain a global view of usage and risks. This enabled their local teams to autonomously test, validate, and propose changes to landing zone templates while centrally monitoring adherence to detective and preventative controls.</p> <p>Bowtie: Bowtie built its own security alert system as the first virtual insurance company in Hong Kong, using Amazon GuardDuty to monitor the logs of multiple AWS components like Amazon VPC, Amazon Route53, and AWS CloudTrail. The system automatically notifies their cloud team when anomalies are detected, enabling quick responses and ensuring its platform is safe and secure while continuing to launch new services to its customers.</p>	<p>Use Cases/Solutions:</p> <ol style="list-style-type: none"> 1. Data lineage and traceability: Amazon CloudTrail, Amazon GuardDuty can be used to log, monitor, and retain account activity/any changes made to data across the AWS Infrastructure for auditioning needs and trigger alerts to the team when anomalies are detected. 2. Regulatory reporting e.g. Consolidated Audit Trail (CAT). Redshift logs information about connections and user activities in your database. Amazon Aurora MySQL supports advanced auditing. The audit trail should be immutable. 3. Cyber event recovery: Using S3 to store immutable and multiple copies of the data, Amazon Macie to scan data at rest to identify anomalies and check for changes in data, track unauthorized access to data using AWS Audit Manager and Config rules. Finally, customers can use AWS Identity and Access Management (IAM) to better manage least-privileged access to the data and the platform, Amazon GuardDuty to continuously monitor the environment for malicious activity and unauthorized behavior, and AWS Network Firewall to monitor and protect network and web traffic within the environment. 4. Cloud Security Governance: AWS Contol Tower makes it easier to govern and manage existing multi-account environments, especially important for Insurance organizations operating in multiple countries, at scale.
Core Systems Modernization	How long are your product development times?	Liberty Mutual: Liberty Mutual made a strategic decision to migrate on-premises systems to the cloud and pursue a serverless-	<ol style="list-style-type: none"> 1. Simplify migration to cloud from on-premises using services like AWS Applcation Migration Service and AWS Database Migration Service. Customers

	<p>Do you see a need to quicken this process?</p> <p>How are you thinking about core modernization? (or mainframe migration)</p>	<p>first approach. By using serverless architecture on AWS, they are releasing higher-quality solutions for customers on a faster timeline—decreasing application build time from one year down to three months.</p> <p>Pekin Insurance: Pekin Insurance modernized its legacy infrastructure with AWS to expand its business, compete with larger competitors and emerging cloud-first insurance companies, and run its core systems and software more cost-effectively and at scale. Since moving to AWS, Pekin has improved its availability by 95%, reduced its code and deployment rollouts from 48 hours to six hours, and reduced its time to market from 8-12 weeks to 2-3 weeks.</p>	<p>can also leverage AWS Mainframe Modernization, which is a set of managed tools providing infrastructure and software for migrating, modernizing, and running mainframe applications.</p> <p>2. Accelerating product development times: The scalability of AWS e.g. using services like Amazon EC2 and Amazon RDS allows insurers to increase their speed to market for new products, enabling them to target emerging product opportunities and customer segments.</p> <p>3. Easier integration with other systems and applications: Use Amazon API Gateway to create, publish, maintain, monitor, and secure APIs around the core. Automated execution of code and configuration helps developers implement CI/CD and improve reliability.</p>
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Payments

Category	Questions	Customer Case Study	How AWS can help
Customer Experience	<p>How well do you understand what your existing customers want and how well can you target new customers?</p> <p>Do you currently use SMS, email, mobile push, or voice to deliver messages to your users?</p> <p>How do you make getting in touch easier for your customers?</p>	<p>Paytm: used Amazon Personalize to create a personalization model that generates recommendations for each customer. They increased its sales and click-through rates of the Paytm Mall homepage while making it simpler for its customers to find items. The firm can also now better measure the activity on its homepage by gathering more metrics on its homepage.</p> <p>Venmo: developed and released a contactless payment solution for customers in six weeks during COVID-19 leveraging Amazon Aurora. With AWS, Venmo scaled to reach 70 million customers and unlocked performance efficiencies.</p> <p>Paytm: able to extract user data from images of complex identity documents with 97% accuracy using Amazon Textract. This KYC solution they deployed in one hour helped them to reduce the time required for the user KYC process from days to minutes. Developing the solution in house also led to a 75% reduction in costs.</p>	<p>1. Predictive User Engagement: Provide personalized experiences with timely, tailored messages and hyper-personalization using Amazon Pinpoint and Amazon Personalize based on stored profiles and real-time behavioural patterns. These services also help to identify new customers and market trends, provide the next best offer to a customer for cross-selling based on user preferences and customer segmentation.</p> <p>2. Customer 360 portal</p> <p>3. Cloud Contact Center: Amazon Connect</p> <p>4. Conversational Chatbots: Amazon Lex</p> <p>5. Real-time identity verification/simpler e-KYC processes: Develop an e-KYC app using AWS AI/ML services like Amazon Rekognition, Comprehend and Amazon Cognito to validate the digital identities of online customers in seconds and grant them appropriate access to the sites and services they need.</p>
Risk Management	<p>How is your current infrastructure supporting the need for back-testing models, stress testing, transaction surveillance, anomaly detection, etc?</p>	<p>Nudata: Mastercard acquired NuData Security to improve its fraud prevention techniques by using passive biometrics to authenticate account holders' identities. By using AWS, NuData is able to collect and analyze hundreds of data points which are then used to authenticate users and protect customers from fraud.</p>	<p>1. Grid Computing: By leveraging the scale of the compute grid on AWS, customers are able to backtest trading models and run risk simulations, which can reduce the time of these jobs by over 90%</p> <p>2. Build a risk management ML workflow: Amazon SageMaker is a fully managed ML platform that allows data engineers and business analysts to</p>

	<p>What types of financial simulations do you run on a regular basis?</p> <p>Are there simulations you would like to run (e.g. for risk management) but can't due to a lack of capacity or budget constraints? Is the workload "spikey"?</p> <p>How do you ensure you are protecting your customers against fraudulent transactions? Does your team have challenges updating your algorithms to prevent fraud?</p> <p>How are you using technology currently for Know Your Customer (KYC)/Anti-Money Laundering(AML)/Fraud Monitoring processes?</p>	<p>CreditVidya: uses Amazon Rekognition to complete electronic “know your customer” processes by comparing users' uploaded identity cards and selfies to ensure that applicants are uploading their own identity cards.</p>	<p>quickly and easily build, train, and deploy ML models which can be used for e.g. to predict loan status for potential customers.</p> <p>4. Fraud detection and Prevention: Using Amazon Fraud Detector, it is now possible for customers to train the Transaction Fraud Insights model and use the model to generate fraud predictions.</p> <p>6. Accelerate e-KYC Processing; Develop an e-KYC app using AWS AI/ML services like Amazon Rekognition, Comprehend and Amazon Cognito to validate the digital identities of online customers in seconds and grant them appropriate access to the sites and services they need.</p>
Data Analytics and Machine Learning	<p>How are you currently capturing customer data to gain deeper customer insights?</p> <p>Are there areas within your organization where you are already applying AI/ML?</p> <p>What challenges and successes have you met?</p>	<p>Grab: GrabPay chose Amazon Elastic Map Reduce (EMR) Managed Scaling to meet its large scale distributed data processing needs while automatically resizing the EMR cluster or best performance at the lowest possible cost. They found the performance of EMR to be 10-15% better compared to their previous platform, and were also able to meet its cost optimization goals by using Managed Scaling.</p> <p>Paytm: using Amazon EMR, interactive SQL queries, and ML applications open-source analytics frameworks, the firm can now better measure the activity on its</p>	<p>1. Build and train machine learning models with Amazon SageMaker, Redshift/EMR for predictive analytics e.g. to predict market changes and customer behaviour.</p> <p>2. Accelerating credit decisioning using primary & alternative data: AWS Data Lake can help to consolidate data into a central repository easily and quickly to streamline data processing, gain deeper understanding of users and conduct real-time credit decisioning.</p>

		<p>homepage by gathering more metrics on its homepage and cater to customer preferences. By modernizing their data platform and streamlining their data processing, they are also able to deliver data to its business users 30% faster and at 70% the cost of its on-premises solution, spin up big data clusters and execute most of its core ETL processing in as little as 10 minutes, vs 12 hours previously.</p>	
Data Management - Compliance & Reporting	<p>What are some of the regulations that require significant reporting efforts for your organization?</p> <p>Is the data you need for regulatory reporting spread across multiple silos?</p> <p>If you are not already using AWS, is it due to any security or compliance reasons?</p>	<p><u>Wise</u>: uses AWS Backup to quickly create templates and tags for on-premises backups written to Storage Gateway, databases backed up to Amazon Elastic File System (Amazon EFS), and Amazon RDS databases. This allows the business to uniformly back up data and easily show auditors the information the information needed to evidence compliance.</p> <p><u>Stripe</u>: Payment processor Stripe has been running its PCI DSS-compliant payment platform on AWS since 2011. The startup relies on the security best practices and easy auditability of the AWS platform. Using AWS gives Stripe access to world-class infrastructure that allows it scale seamlessly and increase developer productivity.</p> <p><u>2C2P</u>: has a higher availability rate of 99.97% and roughly two hours of downtime per year (vs 24 hours initially). They are now able to automate infrastructure scaling using AWS to support demand peaks by up to 10X during customer promotions and with AWS</p>	<p>1. Data lineage and traceability: Amazon CloudTrail can be used to log, monitor, and retain account activity/any changes made to data across the AWS Infrastructure for auditing needs.</p> <p>2. Regulatory reporting e.g. Consolidated Audit Trail (CAT). Redshift logs information about connections and user activities in your database. Amazon Aurora MySQL supports advanced auditing. The audit trail should be immutable.</p> <p>3. Payment Hardware Security Modules: Customers often choose to store their payment information on a merchant's website. Security is critical to storing this data and transferring it to and from a merchant's site. Payment HSM solutions on AWS enable the encryption and decryption of sensitive data to help companies enhance the security of payment credentials and improve payment processing.</p> <p>4. Easy access to cloud-related regulatory requirements: AWS Compliance Center helps customers browse country-specific resources, identify local regulatory requirements, and view AWS compliance programs that may apply to that country they operate in all in one place.</p>

		security controls, 2C2P can detect which components of their infrastructure are vulnerable.	
Core Systems Modernization	<p>How are you thinking about core modernization? (or mainframe migration)</p> <p>How do you account for real-time decision making?</p>	<p>Razorpay: completed a migration to our AWS Mumbai Region with less than four minutes downtime and reduced latency from 400 milliseconds to ~10 milliseconds. Consequently, the business supported a 150% increase in traffic with no impact on performance.</p> <p>Venmo: developed and released a contactless payment solution for customers in six weeks during COVID-19 leveraging Amazon Aurora. With AWS, Venmo scaled to reach 70 million customers and unlocked performance efficiencies. Payments processed reached hundreds per second, query responses stayed under a millisecond, and CPU utilization was reduced. The business is now opportunistically integrating with more AWS managed services to spend less time managing infrastructure</p>	<p>1. Simplify migration to cloud from on-premises using services like AWS Application Migration Service and AWS Database Migration Service. Customers can also leverage AWS Mainframe Modernization, which is a set of managed tools providing infrastructure and software for migrating, modernizing, and running mainframe applications with minimal downtime.</p> <p>2. Platform modernization: Support payment feature upgrades and development of new products quickly. Implement a Digital Payments architecture to achieve the speed, agility, availability, reliability, security and massive scalability demanded by Payments applications leveraging AWS database services such as Amazon Aurora and Amazon ElastiCache for Redis</p> <p>3. API-driven value added services: give customers direct access to their end user bank account data and allow them to make simple, secure, cost-effective payments through integrating APIs in your solution using services like Amazon Cognito, Amazon API Gateway.</p>
Blockchain	How do you keep up with current trends in the industry? Is your company planning to expand into blockchain technology (and how prepared are you)?	<p>SGX: chose to use Amazon Managed Blockchain to quickly and easily set up their blockchain network without having to invest in hardware and software provisioning.</p> <p>Bitkub: provides multi-cryptocurrency wallets, user-friendly technical analysis tools, and alternative cash-out options for businesses willing to improve their</p>	<p>1. Create and manage scalable blockchain networks and distributed ledger technology using our fully managed Amazon Managed Blockchain service and easily integrate with over 70+ solutions from our partners on AWS Marketplace.</p>

		payment processing systems using AWS and our container services for its infrastructure.	
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Banking

Accepts deposits, make loans, issue credit cards. Core Systems, Buy Now Pay Later, KYC/AML/Fraud, Credit Decisions and Loan Applications, Risk Management, Open Finance (APIs).

Category	Questions	Customer Case Study	How AWS can help
Customer Experience	How many mobile banking apps are you running and how is their architecture? What are your aspiration from a customer experience standpoint? What are some milestones you want to achieve in the next 3 years? How well do your systems support customer needs? How do you target new customers and understand what your existing customers want? Is there a process in place to ensure products/services recommendations meet your customer needs?	<p>Capital One: replaced its contact center with Amazon Connect and completed a proof-of-concept phase in just three business days. Once the bank put Amazon Connect into production, Capital One trained hundreds of associates in 30 minutes each and achieved 100% adoption for the direct bank and fraud operations in five months, more than 2x as fast as prior migrations of this size.</p> <p>HSBC: built a cloud-native messaging platform on AWS that helps engage customers in a timely, relevant, and personalized way. The bank provides customers with balance alerts, overdraft alerts, and single-click travel insurance options tailored to their preferences.</p> <p>Bank Islam successfully spun up the end-to-end digital bank environment in days to improve the customer experience and allow partners such as Fintechs, and digital marketplaces to plug in directly.</p>	<p>Use cases/Solutions:</p> <ol style="list-style-type: none"> Banking Portal: A website where customers interact with their banking portfolio. This portal contains click-event capturing and a chat widget able to answer FAQs with a bot. Conversations can be transferred to a live agent anytime, keeping the context and history. Please note that you can continue using your current frontend and add the integration with Amazon Kinesis to support click-streaming and Amazon Lex for the chatbot widget. Customer 360 portal Cloud Contact Center: Amazon Connect Conversational Chatbots: Amazon Lex Multichannel marketing communication service: Amazon Pinpoint collects metrics about channel usage per customer and allows to segment audience to create outbound campaigns over channels like email, SMS, push, or voice. On this post, you can find the guide to add WhatsApp as an Amazon Pinpoint Channel.
Financial Risk Management	How are you using technology currently for Know Your Customer (KYC)/Anti-Money	Standard Chartered : moved its compute to AWS tripling its compute capacity and reducing its compute costs by 60% . The bank now uses 70x more compute	<ol style="list-style-type: none"> Build an Amazon Fraud Detection Model. Using Amazon Fraud Detector, it is now possible for banks to train the Transaction Fraud Insights model and use the model to generate fraud predictions. These can help

	<p>Laundering(AML)/Fraud Monitoring processes?</p> <p>How do you run your stress tests and risk modeling projects?</p> <p>Is the workload spikey?</p>	<p>resources on AWS than it had on-premises and is taking a cloud-first approach to all software development.</p> <p>Bankinter: Used AWS for credit risk simulation application, to develop complex algorithms which simulate a variety of scenarios to assess the financial situation of customers. In order to get real results, they needed significant compute capacity to be able to perform at least 5 million simulations. This was possible through the flexibility and power of EC2 which segmented processes through a grid of instances and executed simulations in parallel on several instances to obtain results within a given time period. As a result, Bankinter's average processing time reduced from 23 hours to 20 minutes.</p>	<p>to identify suspicious online payments, detect new account fraud, prevent trial and loyalty program abuse as well as improve account takeover detection.</p> <p>2. Design a cost-effective Elastic HPC (High Performance Computing) Infrastructure / Grid Computing using Amazon EC2. Flexible grid-computing capabilities allow portfolio managers to conduct simulations that 1. identify risks within their portfolio of products, hedging opportunities, and areas for optimization; and 2. model the impact of hypothetical portfolio changes.</p> <p>3. Develop an e-KYC app using AWS AI/ML services like Amazon Rekognition, Comprehend and Amazon Cognito to validate the digital identities of online customers in seconds and grant them appropriate access to the sites and services they need.</p>
Data Management - Compliance & Reporting	<p>Have you created an integrated view of your data for regulatory and risk reporting?</p> <p>If you are not already using AWS, is it due to any compliance reasons?</p>	<p>Citi: Citi uses AWS CDK to evolve testing, distribute modular infrastructure components across teams, and implement pipelines with high-level programming languages. This allowed Citi to scale design, engineering, and deployment of preventative, detective, and responsive controls to securely migrate workloads to AWS.</p> <p>Commonwealth Bank: Commonwealth Bank met regulatory requirements by setting desired configuration, audit, and detection controls and remediating their resources across more than 500 accounts using AWS Config and conformance packs. AWS services including AWS Config,</p>	<p>1. Customised Reporting Data Lake with AWS Lake Formation and AWS Glue helps to reduce data silos and duplication of effort in data management. A data lake architecture allows you to ingest and store different types of data using both batch and real-time streaming processes, and provides a suite of analytics tools to use for ad-hoc querying, data visualization, big-data processing, network analysis, and ML. With centralized access control, customers can gain timely access to data for regulatory and risk reporting with minimal manual overhead.</p> <p>2. AWS Compliance Center is an interactive tool that offers a central location to research cloud-related regulatory requirements in 54 countries. It aims to help financial services professionals understand</p>

		<p>AWS Security Hub, and Amazon GuardDuty helped to automate AWS security checks, centralize security alerts, and benchmark compliance against their regulatory and risk requirements</p>	<p>regulatory requirements for adopting the cloud in the geographies where they operate, and view AWS compliance programs that may apply to that country. This works alongside the AWS Artifact Tool which provides on-demand access to information on AWS policies, processes, and controls, Amazon CloudWatch which helps to monitor the usage of resources and applications across the organisation and Amazon CloudTrail which monitors and records account activity across your AWS infrastructure, giving you control over storage, analysis, and remediation actions.</p> <p>3. Define and apply data protection policies using Amazon CloudWatch Logs which can help with regulations such as HIPAA, GDPR, PCI-DSS, and FedRAMP.</p>
Data Analytics	<p>How are you using third-party data today?</p> <p>What types of data? For what kind of analysis?</p>	<p>Goldman Sachs: Goldman Sachs Financial Cloud for Data was built natively on cloud to achieve scale in data management and analytics services, allow for their developers to remove undifferentiated work and focus on delivering new and innovative investment solutions, run distributed server-side analytics and enrich data in real-time, as well as stream and analyze time-series data (also in real-time) by ingesting relational data using AWS Data Exchange, Amazon Redshift, AWS Glue, and the FINOS Legend open-source platform.</p> <p>JPMorgan Chase: Through the data mesh architecture, JPMC is using AWS to enable data sharing across the enterprise while giving data owners the control and visibility they need to manage their data effectively.</p>	<p>1. Build a data lake on AWS using AWS Lake Formation and a combination of database/storage solutions like Redshift and Amazon S3. Once customers integrate reporting data into a consistent data set, they can also readily mine that data for insights using advanced analytics and machine learning which can help to digitally transform and improve operations in different areas of their business to drive innovation.</p> <p>2. Implement a Data Mesh using AWS native services, including AWS Lake Formation and AWS Glue. The next evolution of the data lake is a decentralized, domain-oriented data architecture to drive governed sharing of data products. A data mesh architecture helps standardize the “data flow” between data producers (legal entities, business units, trading desks, etc) and data consumers (such as risk, finance, and treasury functions) in order to improve data governance, lineage, and discoverability.</p> <p>3. Amazon FinSpace is a data management and</p>

			<p>analytics service that reduces the time to organize, prepare, and access data needed for financial analysis for FSI in specific, from months to minutes. It finds the right data from internal data stores e.g. portfolio management systems as well as petabytes of data from third party data feeds e.g. historical securities prices from stock exchanges, gets permissions to access the data in a compliant way, and prepares it for analysis.</p>
FinTech	Do you have a FinTech strategy? How are you managing it?	<p>Stripe: delivered its PCI-compliant payment platform entirely on AWS, making it easier for developers to process payments on their web and mobile applications.</p> <p>Goldman Sachs: created a new transaction banking service by building an agile API-based platform on AWS that integrated over 30 AWS services and launched with 99.9% availability.</p> <p>Mox by Standard Chartered: moved from initial licensing to market deployment in just 18 months and acquired 35,000 customers in the first month. Customers can be onboarded in under three minutes.</p>	<p>Use Cases/Solutions:</p> <p>1. Open Finance: Integrating fintech solutions with legacy systems of banks with an API-enabled offering that facilitates the sharing of financial products, data, and services between independent parties to improve the customer experience and offer customers greater product choice and control over their finances and data. With AWS services like API Gateway and Amazon ECS, FSIs can scale APIs on demand, pay only for what they consume, and build modern serverless architectures with minimal capex.</p>
Core Banking Modernization	How are you thinking about core modernization? (or mainframe migration)	<p>Bank of Asia migrated its core banking platform to a new, container-based system running on AWS to provide high availability and fault tolerance. Since migration, IT costs for the platform has decreased by 50% and the company has gained flexibility that allows it to build integrations in one month or less.</p>	<p>Use Cases/Solutions:</p> <p>1. Build a modern agile core banking system using native AWS services and serverless technologies like Amazon QLDB, API Gateway, Amazon S3 and Amazon DynamoDB following the AWS Well-Architected Framework, to drive innovation and better serve customers by adding new functionalities and releasing features quickly. More on Guidance for Building a Core Banking System on AWS.</p> <p>2. Simplify migration from on-premise server and</p>

			workloads using services like AWS Application Migration Service and AWS Database Migration Service . Customers can also leverage AWS Mainframe Modernization , which is a set of managed tools providing infrastructure and software for migrating, modernizing, and running mainframe applications.
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Manufacturing

Examples: Aircraft, automobiles, chemicals, clothing, pharmaceuticals, F&B, consumer electronics, machineries.

Jargons

- PLC: Programmable Logic Controller. Industrial computers of varying sizes to control different electro-mechanical processes for use in manufacturing.
- HMI: Human Machine Interface. The hardware or software through which an operator interacts with a controller.
- SCADA: Supervisory Control and Data Acquisition. SCADA is a monitoring software installed on a computer in a monitoring hub at a plant as a central system. Used to monitor progress and control flow/operation throughout the plant.
- Historian: Time series database storing data sent from SCADA. All data stored in Historian. SCADA will only have live data or up to 30 days. Historian stores archival data.
- MES: Manufacturing Execution Systems
- ERP Systems: Accessed by Sales, Marketing, Engineering. ERP and MES can be the same system.

Smart Manufacturing

Business Outcomes: 1/ Improve production and asset optimization, 2/ Quality Management, 3/ Worker Safety & Productivity, 4/ Reduce maintenance costs

Category	Questions	Customer Case Study	How AWS can help
Industrial Data Platform	<p>Tell me more about your manufacturing process?</p> <p>Are you using any legacy on-prem operational tech applications? Eg. Historians, Supervisory Control And Data Acquisition [SCADA], Programmable Logic Controller [PLC] & control layer, Manufacturing Execution system [MES]</p> <p>Tell me about your Smart Factory or Industry 4.0 initiative. What's working well/not well?</p>	<p>Volkswagen: Parent company of 12 iconic automotive brands, such as Volkswagen, Audi, and Porsche. Moving its 124 factory sites to a single Volkswagen Industrial Cloud running on AWS.</p> <p>BMW Group: Global manufacturer of premium automobiles and motorcyclesRunning a centralised Cloud Data Hub built on AWS. Processes and combines anonymized data from vehicle sensors and other sources across the enterprise to make it easily accessible for internal teams creating customer-facing and internal applications.</p>	<p>AWS IoT Greengrass: Build, manage, deploy IoT software</p> <p>AWS IoT Core: Connect IoT devices to AWS w/o need to provision or manage servers</p> <p>AWS IoT SiteWise: Collect and analyze industrial data at scale and make better, data-driven decisions</p> <p>Amazon S3: For building data lake</p>
Asset Maintenance and Reliability (AMR) / Asset Performance Management (APM)	<p>Are you currently facing any challenges with unplanned downtime on your machineries?</p>	<p>GE Gas Power: Manufacturer of power generation equipment. With AWS Monitron, they were able to quickly retrofit assets with sensors and connecting them to real-time analytics in</p>	<p>AWS Monitron: Hardware with vibration and temperature sensor. Uses ML to detect abnormal conditions in industrial equipment and enable predictive maintenance.</p>

	<p>What are the applications/systems used for monitoring reliability of your machineries?</p>	<p>AWS cloud, transitioning from time-based to predictive and prescriptive maintenance.</p> <p>Siemens Energy: Offers products across the energy value chain. Give improved visibility into the systems and equipment across the entirety of a customer's operation using Amazon Lookout for Equipment. Deploy predictive ML models for maintenance without data science knowledge.</p>	<p>Amazon Lookout for Equipment: ML industrial equipment monitoring service that detects abnormal equipment behavior so you can act and avoid unplanned downtime.</p>
Computer Vision for Quality Insights	<p>How is the quality process currently being done?</p> <p>What are your current systems to collect imagery and data related to quality inspection?</p> <p>Do you face high warranty claims from customers?</p> <p>How do you obtain actionable insights and leverage these insights to sense and alert on quality issues?</p>	<p>Baxter: Global medical products company. Use Amazon Lookout for Vision to automate inspection tasks that can't be addressed by manual inspection alone.</p> <p>Invista: Global producer of chemical intermediates. Use Amazon Lookout for Vision to automate visual inspections across production lines. Faster responses to issues resulting in proactive interventions improving production efficiency and allow technicians to take earlier corrective action.</p>	<p>Amazon Lookout for Vision: ML service that uses computer vision to spot defects in manufactured products at scale.</p> <p>Warehouse & Logistics: Solve for automating inventory inspection and identify missing materials</p> <p>Production & Assembly: Identify leaks, missing components, scratches eg. defect types per batch of production, defect type measurements, defect locations, etc.</p> <p>Packaging: Identify defects eg. measurement of a specific package, location of the package, etc.</p>

Supply Chain Management

Business Outcomes: 1/ Increase asset utilization, 2/ Lower inventory carrying costs, 3/ Prevent stockouts and meet service level commitments

Category	Questions	Customer Case Study	How AWS can help
Demand Forecasting & Planning	<p>How are you currently running your demand forecasting models? Software or Excel?</p> <p>How accurate are these models and do you face any challenges using them?</p>	<p>Foxconn: World's largest electronics manufacturer and technology solutions provider. Use Amazon Forecast to generate more order forecasts, helping to increase accuracy while minimizing wasted labour costs.</p> <p>Shimamura Music: Japan's largest musical instrument retail store. Using Amazon Forecast, their non-engineering team in the logistics department was able to build an in-house demand forecasting ordering system that improves shortage rates and increase business efficiency.</p>	<p>Amazon Forecast: Time-series forecasting service that automatically selects the right ML model for your data</p>
Warehouse Operations & Automation	<p>How are you currently planning your warehouse floorspace for high utilization?</p> <p>What are some challenges you face with maintaining accurate inventory count?</p> <p>How are transportation/freight schedules aligned with warehouse processes?</p>		<p>Amazon Appflow: Integration service that enables you to transfer and transform data between ERP/CRM/SaaS applications to S3 and Redshift</p> <p>AWS IoT Core: Connect IoT devices to AWS w/o need to provision or manage servers</p> <p>Amazon Redshift: Data warehouse for big data processing</p>
Fulfillment & Distribution Operations	<p>How are you currently tracking delivery service time if they meet client expectations?</p>	<p>Lalamove: Provides on-demand delivery service across 22 markets globally. Speeds Up Driver Onboarding with Amazon</p>	<p>AWS IoT Core: Connect IoT devices to AWS w/o need to provision or manage servers</p>

	Are you able to predict slow deliveries and take prescriptive actions to resolve?	Textract for OCR, ensuring a high supply of delivery drivers to match deliveries.	Amazon SageMaker : Build, train, and deploy machine learning (ML) models
SAP on AWS	<p>Are you currently working on any SAP projects, or do you have any SAP projects on your roadmap?</p> <p>Tell me about your current SAP implementation – what applications are you running?</p> <p>Are there additional applications or functionality you’re considering?</p> <p>What is your SAP HANA roadmap? Do you have a hardware refresh pending?</p>	Lockheed Martin: U.S. aerospace, defense, security, and advanced technologies company. Runs its SAP Suite on HANA on AWS for the increased agility in spinning test systems up or down to adjust to the changing dynamics of internal projects.	SAP on AWS

Sustainability

Business Outcomes: 1/ Reduce energy spend and Opex, 2/ Achieve Sustainability Goals, 3/ Receive Government Grants

Category	Questions	Customer Case Study	How AWS can help
Smart and Sustainable Buildings on AWS	<p>How are you currently monitoring energy usage and savings potential in your plants?</p> <p>What is your current building management system software? Are you able to see an integrated view of operations across your building portfolio?</p> <p>What are the company's sustainability goals being set?</p> <p>Are there any regulations being set for your industry?</p>	Cognizant : A global real estate investment trust (REIT) with over 12,000 rentals used Cognizant Smart Buildings to integrate multiple assets and systems resulting in improved operational efficiency of facility management and marketability of the properties.	<p>AWS IoT Core: Connect IoT devices to AWS to collect data and create a dashboard for monitoring.</p> <p>Efficiency of AWS Data Centers</p>

Engineering & Design

Business Outcomes: 1/ Accelerated time to market, 2/ Optimized development costs, 3/ Improved collaboration

Category	Questions	Customer Case Study	How AWS can help
Computer-Aided Engineering (CAE)	<p>What types of software are you using to simulate performance to improve product designs?</p> <p>What types of simulation are you currently running? For process modelling?</p> <p>Are you facing any challenges in meeting timelines to develop/test more products?</p> <p>How are your product development/R&D teams able to collaborate?</p>	<p>Western Digital (WD): Global manufacturer and designer for hard disk drives (HDD). Use EC2 spot instances to run millions of simulations of different materials and configurations to improve their hard disk performance.</p>	<p>AWS Batch: Efficiently run hundreds of thousands of batch and ML computing jobs while optimizing compute resources</p> <p>AWS ParallelCluster: Easy to deploy and manage High Performance Computing (HPC) applications on AWS</p>

Transportation & Logistics

Business Outcome	Initiative	Questions	How AWS can help
Increase Revenue	Leverage warehousing applications to streamline operations, reduce costs and increase customer satisfaction.	<p>What ERP(s) do you currently utilize?</p> <p>Are you looking to synchronize across multiple facilities to better leverage inventory, or serve customers with shorter windows and coordinated services?</p> <p>Do you have capacity issues or utilization impact due to seasonal or promotional spikes?</p> <p>How do you schedule your workforce activities in warehouse?</p>	Infor SaaS: Offers a Warehouse Management solution that enables end-to-end inventory tracking, labor and space optimization, advanced pick-pack-put away operations using AI/ML techniques, and open-ended integration architecture to seamlessly connect with 3rd party automation systems in a single platform.
Reduce Operational Costs	Optimize routing of trucks to reduce costs, improve efficiency, and increase customer satisfaction.	<p>How are you planning routes today for your drivers?</p> <p>What do you think are the challenges you are facing on the Last Mile?</p> <p>Are you looking for a packaged solution off the shelf running on AWS or are you looking to build your own solution leveraging best of breed tools from AWS?</p> <p>What are the challenges you are facing in the Middle Mile?</p> <p>How much time is spent manually planning your Middle Mile and do you think your current results are optimal?</p>	<p>Amazon Location Service: Add location functionality, such as maps, points of interest, geocoding, routing, tracking, and geofencing, to their applications</p> <p>HERE Last Mile SaaS: Fleet visibility, tracking, and optimization, all with one app.</p> <p>FarEye Technologies SaaS: A logistics platform for shippers and logistics service providers to be able to deliver actionable visibility into their shipments and hence drive efficiencies and intelligent automation of their supply chains.</p>

Retail

Types of Retail: Department Store, Specialty Store, Supermarkets, Convenience Stores, Discount Stores, Hypermarkets

Category	Questions	Customer Case Study	How AWS can help
E-Commerce	<p>How many different products do you carry? What kind of transaction volume?</p> <p>Does the site scale for peak times? How are you monitoring your equipment for failures?</p> <p>Have your customer faced any user experience problems before? E.g. Long check out times, website crashes etc</p> <p>How are you using analytics from the data collected from the website?</p> <p>Does your organization use a recommendation system today?</p> <p>Does your website include any live streaming for selling?</p> <p>Is 3D/Augmented Reality products part of your e-Commerce strategy?</p> <p>Is the site secure? Faced any denial-of-service attacks?</p>	<p>Zalora: Region's largest online fashion retailer. Migrated SAP S4 Hana to AWS for greater reliability and flexibility. Scale infrastructure to meet growth in users.</p> <p>11Street: South Korea's largest ecommerce site. Introduced a live commerce feature that blends entertainment with instant purchasing for sales events and new product launches.</p>	<p>Website Performance & Security: Speed up content delivery using CloudFront and improve security using WAF and Shield</p> <p>Personalization: Personalized recommendations can improve brand loyalty, grow sales, and enhance the shopping experience. Amazon Personalize uses ML to tailor recommendations based on user behavior, preferences, and interaction history</p> <p>Visual Search: Customers can search by uploading an image instead of typing. Using Amazon OpenSearch and SageMaker.Retail</p> <p>Live-streaming: Help shoppers discover new products, get comfortable with their purchase, and be entertained in an interactive community of shoppers. Using Amazon Interactive Video Service (IVS).Immersive Retail: Using AR for customers to preview products. Increase sales and reduce returns.</p>

Engineering, Construction, and Real Estate

Business Outcome	Initiative	Questions	Customer Case Study	How AWS can help
Reduce Costs and Improve Operational Efficiency and Sustainability by Modernizing and Optimizing the IT and OT Estate	Improve workforce productivity and collaboration	<p>How do your teams integrate Computer Aided Engineering in your product development lifecycle?</p> <p>Do you need to move data or applications to the cloud for compliance, cost savings, or other reasons?</p> <p>How satisfied are you with your employee's ability to access their applications and data remotely?</p> <p>Do you currently have a VDI solution? If so, are you looking to scale or refresh your current VDI environment?</p>		<p>Amazon Workspaces: Secure, reliable, and scalable access to persistent desktops from any location</p> <p>Amazon AppStream 2.0: Secure, reliable, and scalable access to applications and non-persistent desktops from any location</p> <p>Citrix SaaS: Citrix provides a complete virtual app and desktop solution to meet all your business needs. Give employees the freedom to work from anywhere while cutting IT costs.</p>
	Optimize asset performance and sustainability	<p>Do you have in-house SME expertise to identify energy savings potential across the manufacturing facility?</p> <p>Do you have systems in place to report end-to-end carbon content in supply chain, manufacturing, and end-of-line for every product vs enterprise level?</p> <p>Are there any gaps or limitations with current software or systems used to measure or model your organization's emissions?</p>		<p>CoolPlanet SaaS: Extracts data from dark corners of your plant, places it at your fingertips and helps you identify problems and opportunities to drive continuous improvement.</p> <p>Metron SaaS: METRON, Energy Management and Optimization System, unlocks the energy performance & carbon impact reduction of manufacturing, retail and services groups. It is one central digital solution for visualization, monitoring, optimization and AI-modeling of energy performance strategy and decarbonization roadmap.</p>

Reduce Risk by Delivering Projects Safely, On Time, and On Budget	Improve worker safety	<p>How are you monitoring your PPE compliance today?</p> <p>Could your business benefit from CCTV feed-driven, automated PPE compliance detection?</p> <p>Are your resources able to build automation for your PPE compliance detection by themselves?</p>		Amazon Rekognition PPE Detection: Customers can analyze images from their on-premises cameras across all locations to automatically detect if persons in the images are wearing the required PPE such as face covers, hand covers, and head covers.
	Ensure visibility and predictability across the supply chain	<p>Are you concerned about the accuracy of the Demand Plan and the time it takes to finalize it?</p> <p>What is your current forecasting system?</p> <p>What ERP do you use?</p> <p>What is your forecast accuracy, at what level? (e.g., 70% accuracy at SKU-week level, 4 weeks out)</p> <p>Longer term, are you also looking to improve your end-to-end planning / S&OP / Integrated Business Planning process?</p>		Amazon Forecast: Time-series forecasting service based on machine learning (ML) and built for business metrics analysis. SAP on AWS

Gaming

Game Developers

Responsible for game's storyline, visuals, gameplay.

- What type of games are you developing?
 - Offline Games: Games runs on player's own machines
 - Single Player: Game runs on player's own machines. New levels unlocked will be downloaded from servers.
 - Turn-Based: Players connected online but no need for real-time.

- Real-Time Session: All players in the same room will be connected to the same server in real-time.
 - Do you face any challenges with your matchmaking servers to group players?
- Persistent Games: Game runs 24/7 and players will join the same virtual world
- Where are you in the development cycle?
 - Build
 - What applications do you use in designing, developing, rendering, and publishing games?
 - Game Engines: Unreal, Unity, etc
 - Apps for 3D Modelling: Maya, Autodesk, Blender, etc
 - How has it been to manage different workstations for different locations (eg. for rendering, version control, pipelines)
 - Run
 - What infrastructure are you using to host game servers and to maintain back-end (eg. leaderboards, player data, in-game messaging)
 - Grow
 - How are you currently using analytics to drive game design and development decisions? Eg. player retention and engagement
 - Are you facing any challenges in regulating content on your gaming platform?

Game Publisher

Companies that back developers in funding, go-to-market, distribution, technology. Revenue share with developers.

- What is the monetization model? One-time purchase, Subscriptions, Free-to-Play, Play-to-Earn?
- Are you also developing your own games?
- Do you manage the game studio infrastructure?
- What infrastructure are you currently using to run?
- What's your game analytics strategy?

Media & Entertainment

- Is the intended workload to use the AWS services meant for Video-on-demand or live streaming content?
- Who are the producers that are producing the streaming content?
- Who are the consumers that are consuming the content?
- What is your current method of streaming the content? For e.g. for live streaming.. Webcam records video → video goes through a streaming software → video gets feed into a server (that does encoding/broadcasting etc) → displayed to users

Content Production

- What editing software do you use? (Adobe, Resolve, etc.)
- Tell me about your current production workflow (i.e., products used, number of editors, remote collaboration).
- How many edit workstations do you have?
- What type of content are you editing? (long form: film, TV/episodic; short form: trailers, promos, social, etc.)
- Is your content for VOD (video on-demand) or for live streaming?

Media Supply Chain & Archival

- How do you deliver your files to your distribution partners today?
- How many partners or receive sites do you deliver content to today? Do you see this growing/changing much in the coming 12-24 months?
- Do you ever have issues with file corruption or assets missing from the transfer process?
- How long does it take to onboard a new delivery partner for file transfer?

Broadcast

- How big is your expected audience?
- Do you have specific requirements for your video encoding?
- Do you offer fan/audience participation during live shows (e.g., voting, chat, trivia)?
- Do you have any use cases where you deliver updates to your customers that are tracking a game/match in a web or mobile application? Is it important the updates are delivered in as close to real-time as possible?

Direct-to-Consumer & Streaming

- What is your video business model? eg. Transactional (TVOD), Subscription (SVOD), Free Ad Supported (FAST), Ad supported VOD (AVOD)
- Do you intend to have interactivity (such as polling, chats) be part of the video service?
- What are your intended/desired distribution points?
- How big is the content library? How much will refresh monthly? Where do you store it today?
- How do you handle content security today? What does that cover?

Data Science & Analytics

- How easy is it to search and discover specific content in the library today? How do you do that?
- How do you currently handle subtitling and translation for media assets?

- How do you handle content moderation today? How do you identify content that is inappropriate for your region or for a given ratings level such as nudity, language, violence, and cultural hate sentiments?

Supply Chain

Demand Planning

- Do you have a Supply & Operations Planning (S&OP) process today?
- How do you create your forecast today? How do you visualize and track inventory today?
- Are you demand constrained or supply constrained in your operations?
- How is your forecast accuracy currently? How is it measured and would you want to improve it?

Supply Chain Resiliency & Warehouse Management

- Are you more impacted by demand fluctuations, supply disruptions, or capacity issues?
- Do you have tools to identify the risks in your supply chain?
- How are you tracking your assets movement today? What level of details do you capture in your inventory tracking (e.g., lot codes, serial number, shelf life, etc.)?
- Are you looking to synchronize across multiple facilities to better leverage inventory, or serve customers with shorter windows and coordinated services?
- Do you have robotics and automation in your warehouses? What types of material handling automation are you using?
- What ERP(s) do you currently utilize?

Healthcare

Patient Experience/Contact Center

- Are you able to incorporate Bots and AI to triage and automate inquiries in a natural way to help with things like scheduling appointments?
- How is the current integration between appointment systems and patient's Electronic Health Record database?
- How is the current patient experience from discovery of services to discharge? What are some patient feedback received? Do they face long waiting times in certain portion of the process?

Finance & Operations

- What types of health document does your business deal with on a regular basis? (eg. notes, discharge notes, claims, medical charts, clinical trial documentation, lab reports)
 - How do you currently process them? How many do you process each year?
- Which aspect of document processing is the most time-consuming or manual for your team?

Health Data Lake

- How do you see your current analytics capabilities?
- What areas of your business are you exploring the use of machine learning? What are your main blockers?

- What is your data archiving/data lifecycle management strategy?

Advertising & Marketing

Advertising Intelligence

- What historical (sales, site visits) and streaming data (customer clicks, RTB Bids, in-app behavior) sources do you use today to making advertising bidding decisions?
- What are some of the challenges you are facing in terms of listening and responding to real-time signals?
- Do you think you currently have adequate data science and data platform engineering resources?

360 Customer Data Platform

- How are you managing customer identity across devices, channels (web, social, call center, connected devices, email, in-store, e-commerce) and touch points (marketing, sales, support and product) ?
- How do you develop a unified customer profile to build direct and meaningful customer relationships?
- What are some of the challenges you are facing in terms of managing and updating millions of customers profiles and relationships?
- How is your company currently leveraging customer behavioral patterns?

Advertising Platforms

- How are you currently using analytics to reduce your company's real-time bidding (RTB) costs?
- How are you using Machine learning (ML) today to reduce AdTech bid stream volume and costs? What are the challenges you are facing?
- Are there specific ML use-cases such as traffic filtering, bid prediction, intelligent demand selection, and others that you want to pursue or improve?