# re:Invent

NOV. 29 - DEC. 3, 2021 | LAS VEGAS, NV

# Attendee Guide 2021 for Financial Services Professionals

# Welcome!

On behalf of the AWS Worldwide Financial Services team, welcome to re:Invent 2021! We're looking forward to seeing many of you live in Las Vegas, and for those who cannot join us in person, we're delighted to offer an engaging virtual experience.

No matter how you participate, the stories, tips, and lessons learned shared by your peers and AWS specialists alike will guide and accelerate your own cloud adoption efforts.

This year's conference offers hundreds of sessions, with more than 60 focused on Financial Services. We've created this guide so that you can get the most out of your time at re:Invent, which includes helping you reserve a spot for the sessions you don't want to miss.

Thank you, as always, for your interest in re:Invent, and for your engagement with the AWS Financial Services community!

Frank Fallon
Vice President, AWS Worldwide Financial Services



**OVERVIEW** 

# Let's get started

To make sure you are ready to take on this year's conference, we've created this guide full of tips and tricks provided by re:Invent alumni, teams, and staff on how to navigate our in person event and virtual experience. Step one is to register:

**Register today** 

Step two is to get ready to reserve your seat at your favorite sessions. Reserved seating opens October 19, 2021 at 10:00AM PST.

Take advantage of the resources outlined in this document. We've curated them to help you plan a successful agenda.

#### AWS re:Invent attendees should expect to:

- Learn firsthand about AWS services from recognized world experts.
- Focus on key services that matter most to their businesses and interests.
- Get technical questions answered on the spot.
- Receive immediate access to what's new on the platform.
- Most of all, enjoy themselves while learning!



**OVERVIEW** 

# Choose the learning methods that work for you









#### **Breakout Sessions**

Available from intermediate (200) through expert levels (400), so you can grow your skills, no matter where you are in your career. Select from any track, level, or available session type to tailor your re:Invent experience.

#### Workshops

Workshops are two-hour hands-on sessions where you work in teams to solve problems using AWS services. Workshops organize attendees into small groups and provide scenarios to encourage interaction, giving you the opportunity to learn from and teach each other.

#### **Chalk Talks**

Chalk talks are a highly interactive content format with a small audience. Each begins with a short lecture (10–15 minutes) delivered by an AWS expert, followed by a 45 or 50-minute Q&A session with the audience.

#### **Builders' Sessions**

These are 60-minute small group sessions with up to six attendees per table, and one AWS expert, who is there to answer questions and provide guidance. It's just you, your laptop, and the AWS expert.



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COP212-S	How Capital One continues to change banking for good at scale (sponsored by Capital One)
COP216-S	Guardian's digital transformation with AWS and Accenture (sponsored by Accenture)
COP220	Automate account provisioning and customization with AWS Control Tower
COP222	Maintain application availability and performance with Amazon CloudWatch
COP301	Cloud compliance, assurance, and auditing
COM302	Building data lakes in highly regulated markets
CMP313	Risk calculations using HPC and Spot Instances with Morgan Stanley
DAT305	Enabling workloads for high availability and durability with Amazon RDS
DAT311	What's new in Amazon RDS for Oracle (featuring <b>Goldman Sachs</b> )
DAT327	Build a serverless, event-driven architecture with AWS services
ENT319-S	Accelerate your cloud migration for financial services (sponsored by <b>PagerDuty</b> )
ENT321	A pragmatic guide to modernizing your mainframe (sponsored by <b>Atos</b> )
NT223-S	A technical deep dive on VMware Cloud on AWS Outposts (sponsored by <b>VMware</b> )
WM201	Accelerate front-end web and mobile development with AWS Amplify
MKT201	Use AWS Data Exchange to streamline data processing and analytics
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QTC305	Financial portfolio optimization with quantum computing
STP201	How <b>BlockFi</b> scales to meet demand for cryptoasset services
TP207	Using privacy-first data processing to make drivers smarter (featuring Cambridge Mobile Telematics)
TP215	Building a serverless banking as a service platform on AWS (featuring <b>Solarisbank</b> )
STP220	How fintech company <b>Flutterwave</b> achieved startup "unicorn status"
STG208	AWS Transfer Family: The future of managed file transfer (featuring Goldman Sachs)



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FSI303	Unlock business value with ML document processing pipelines	STG338	How to optimize Amazon S3
FSI311	Your blueprint for financial services data lake migrations	STG401	Get the most out of your Amazon EFS deployments
FSI312	Optimizing data integration and ingestion in mergers and acquisitions		
FSI313	Shift record retention from obligation to advantage		
FSI314	Facilitating cross-border payments with machine learning		
AIM308	Harness the power of ML to protect your business with Amazon Fraud Detector		
AIM312-S	Applying AWS machine learning to next-gen DevOps		
ARC322	Building DDoS-resilient perimeters with response automation		
BLC301	Zero to hero: Building your first NFT on blockchain		
COP305	Cloud Compliance and auditing best practices on AWS		
CMP320	Dive deep on cloud use cases with AWS Outposts		
ENT202	Accelerating a 142-year-old financial institution into cloud fluency (featuring Principal Financial Group)		
SEC215	Evidence collection with AWS Audit Manager		
SEC315	Cloud-native data loss-prevention control with Goldman Sachs		
STP211	Automating and evidencing key compliance security controls		
STG341	AWS Backup to protect cloud-native resources and hybrid environments		
	Workshops		
FSI304	Policy as code: How to automate security and compliance		
AIM316	Al workflow automation for document processing		
AIM318	Build an intelligent document processing solution for claims adjudication		
BLC302	Building an Ethereum app with Amazon Managed Blockchain		
STG309	Integrating serverless applications with AWS storage services		



PLAY

#### LOUNGE

#### **AWS for Financial Services**

Stop by, relax, and chat with experts to learn how AWS helps financial institutions—from large enterprises to the fastest-growing startups—modernize Financial Services. Join us for live demos and service spotlights, including machine learning, data and analytics, and a partner showcase. There are also opportunities to network with AWS specialists, partners, and customer speakers. Or if you just want to rest your feet, there will be first come, first served seating available.

#### **Dates and Times:**

Monday, Nov. 29: 10:00AM – 7:00PM Tuesday, Nov. 30: 10:00AM – 6:00PM Wednesday, Dec. 1: 8:00AM – 6:00PM Thursday, Dec. 2: 10:00AM – 5:00PM Friday, Dec. 3: 8:00AM – 11:00AM

#### **Location:**

Venetian Conference Center, Level 4 West Alcove Network, relax, meet session speakers, AWS Partners, and learn about new services through live demos

#### **Ask the Experts**

Hear from market segments leaders across Banking, Capital Markets, Payments, and Insurance and subject matter experts on security, governance, and compliance from the Financial Services industry. Learn practical tips on simplifying Cloud Service Adoption within your organization.

#### **Data and Analytics**

#### **Customer 360**

Discover the power of using FindMatches to identify common customers between different parts of an organization to identify up-sell and cross-sell opportunities.

#### **Voice of the Customer**

Learn how to leverage a Lake House to extract real-time, actionable insights from unstructured data. Call audio from a call center is written to Amazon S3 and processed using Amazon Machine Learning.

#### **Machine Learning**

#### **Intelligent Document Processing Spotlight**

How do you automate data processing from documents? AWS Machine Learning provides you choices when it comes to extracting information from complex content in any document format such as insurance claims, mortgages, healthcare claims, and legal contracts.



#### **GMD202** [REPEAT AVAILABLE]

### **AWS Gameday—Financial Services**

The AWS Financial Services GameDay is a hands-on learning experience designed to familiarize customers with AWS and deepen their cloud skills through real-world simulation. The event provides Financial Services technology professionals the opportunity to learn how to apply AWS services to achieve specific business outcomes in an engaging environment.

Participants will develop modules required to manage a sustainable investment portfolio, including: integrating real-time financial market prices and ESG scores from LSEG/Refinitiv, testing workload resiliency and protecting against service disruptions using Gremlin, building financial analytics for portfolio modeling using Amazon FinSpace, and using machine learning for price prediction and news sentiment analysis.

#### **Sponsored by:**







#### **Dates and Times**

Tuesday, Nov. 30: 7:45AM - 12:15PM

Thursday, Dec. 2: 1:45PM – 6:15PM



# Financial Services Breakout sessions

AWS re:Invent breakout sessions are lecture-style and one hour long. These sessions take place across the re:Invent campus and cover all topics at all levels (200–400). For our virtual attendees, breakout sessions will be available on-demand.



#### **FSI202**

# How JPMC modernized its core risk management platform

JPMorgan Chase (JPMC) Corporate Investment Bank's Athena platform provides technologists, quantitative analysts, and risk managers with a consistent, crossasset portfolio of models, frameworks, and tools to use in building financial applications. Having migrated a number of trade desks to AWS and achieved improved performance, the platform owner decided to accelerate Athena's journey to the cloud. This session will share the challenges that JPMC overcame and detail the Athena team's adoption of cloud-native services, including Amazon EKS, Amazon S3, Amazon RDS, and Amazon ElastiCache for Redis, to enable customers to evaluate risk across a broader set of market conditions and scenarios.

Featured speakers: Michael Elliott, Managing Director, CIB, JPMorgan Chase & Co.; Ioana Nistoreanu, Lead Software Developer, JPMorgan Chase & Co.; Oli Leach, Global Accounts Solutions Architect, AWS

#### **FSI203**

### State Farm: Enabling rapid deployment with risk automation

Learn how State Farm streamlined deployment approval from months to minutes by implementing an automated, data-driven risk management process for all use cases leveraging AWS services. Approving deployments to production in Financial Services is often a manual, opinion-based, and time-consuming process that frustrates developers, security teams, and executive leadership alike. This solution not only notifies account administrators of potential compliance issues, but it also supports auto-remediation of these issues and provides continuous, real-time testing and monitoring of controls, which accelerates service adoption for developers, delivers assurance to InfoSec professionals, and enables agile executive decision making.

Featured speakers: Dennis Kampen, Architect Manager - Public Cloud Adoption Team, State Farm; Jeff Michels, Software Developer, State Farm; John Lucking, Principal Solutions Architect, Insurance, AWS

#### **FSI204**

# Goldman Sachs: Re-inventing financial data analytics

Performing sophisticated data management and analytics can create a critical advantage in financial markets, but doing so with speed and scale requires significant time and resources. Learn how Goldman Sachs addressed this challenge by building a cloudnative, modular, and integrated collection of services to enable innovation in financial data analytics. Hear how the bank re-architected its proprietary data and analytics capabilities leveraging AWS services to make it easier to discover, combine, and analyze data in minutes. This session will share how capital markets organizations can adopt this solution through the Goldman Sachs Financial Cloud to accelerate data integration and quantitative analysis.

**Featured speakers**: Andy Phillips, Managing Director, Goldman Sachs; **Francis Giannaros**, Vice President, Goldman Sachs; **Balaji Gopalan**, Principal Solutions Architect, AWS



#### **FS1205**

# Itaú: Upgrading platforms to transform customer experience

Itaú Unibanco, Latin America's largest bank, is systematically modernizing its legacy applications, moving from mainframe to open platform, to better serve its 56 million retail customers. For instance, the bank is migrating its transaction-account front end to improve performance and enhancing its account statement application using Amazon OpenSearch, delivering features such as textual search for transactions up to 22 years old. Attendees will learn how the bank organized to accelerate innovation and adoption of services such as AWS Fargate, AWS Lambda, and Amazon DynamoDB, which it used to deploy an instant payment system, Pix, that handles nine million transactions daily.

Featured speakers: Fabio Napoli, Director of Technology, Itaú Unibanco; Wilson Cristoni, Head of Digital Integration, Itaú Unibanco; Julio Morais, Enterprise Sales Executive, AWS

#### **FSI301**

# Standard Chartered Bank: Migrating core banking to AWS

Standard Chartered Bank (SCB), a global bank serving customers in 60 markets, is launching a cloud-first strategy. One of SCB's lighthouse projects is the migration of its core banking system, Atlas, to AWS. As a tier 1, highly regulated workload, Atlas requires exceptional levels of security, availability, and auditability. This session shares how SCB migrated Atlas to AWS, lessons that the company learned, and the benefits of this migration, including enhanced reliability and performance. In particular, learn how SCB moved from Db2 to Amazon Aurora PostgreSQL, which has advanced compliance and resilience features that were critical to the successful migration.

**Featured speakers: Mitra Heravizadeh**, Managing Director, Technology & Innovation, Standard Chartered Bank; **Xavier Loup**, Principal Solutions Architect, Financial Services, AWS

#### **FSI305**

### Citi: Scaling security guardrail development via AWS CDK

Citi has harnessed AWS CDK to unify software development processes across its AWS environment, using years of experience with infrastructure as code. Still, maintaining templates, writing custom scripts, or learning domain-specific languages can be challenging. In this session, learn how Citi uses AWS CDK to evolve testing, distribute modular infrastructure components across teams, and implement pipelines with high-level programming languages. Discover how this innovative approach has allowed Citi to scale design, engineering, and deployment of preventative, detective, and responsive controls to securely migrate workloads to AWS.

Featured speakers: Michael Neil, Senior Vice President, Cloud DevSecOps Lead, Citi; Richard Julian, Senior Vice President, Cloud DevSecOps Lead, Citi; Freddy Kasprzykowski, Security Transform Consultant, Financial Services, AWS



#### **FSI306**

### CME Group: Enabling data science through event-based design

As one of the world's largest futures exchanges, CME Group faces ever-growing data needs. Through company acquisitions, vendor partnerships, and expanded integrations with external data platforms like Salesforce, CME needed to transform its data management capabilities. In this session, find out how CME built a scalable data-ingestion pipeline using an event-driven, file-based architecture. This versatile solution, which uses AWS Step Functions, Amazon AppFlow, AWS Lambda, Amazon EMR, and AWS Lake Formation, supports compliance data management, commercial data enablement, real-time Kafka publishing, and data-lake optimization. Critically, it enables the company's data science community by making it easier to securely integrate and analyze third-party datasets.

**Featured speakers: Rick Fath**, Senior Director of Cloud Architecture, CME Group; **Keerti Shah**, Global Account Solution Architecture, AWS

#### **FSI307**

# Vanguard: Personalization at scale with Amazon SageMaker

Vanguard is using machine learning (ML) on AWS to solve one of the most pressing challenges in financial advice: personalization. In this session, learn how Vanguard's ML engine uses AWS services such as Amazon SageMaker to optimize rule-of-thumb recommendations with more sophisticated financial advice to maximize retirement wealth and spending for investors. Vanguard will share how training the ML models on large Amazon SageMaker instances, including more than 120 instances for data generation, made the unsolvable solvable, accelerating project completion time to less than one month and lowering the cost from \$5 million to less than \$200 thousand.

**Featured speakers: Ayoub Hazrati**, Data Scientist, Vanguard; **John Formento**, Solutions Architect, AWS

#### **FSI308**

# Globe Life: Accelerate innovation with self-serve analytics

Learn how Globe Life went from running queries one model at a time to analyzing more than 10 billion records and 200 models simultaneously, deriving business insights in under 30 seconds. Globe Life's self-service analytics framework leverages data from multiple sources using AWS services, including Amazon Redshift. In this session, Globe Life shares how its analytics environment maintains security guardrails to empower its actuarial and business teams to meet time-sensitive regulatory requirements and quickly perform deep analysis for business innovation.

**Featured speakers:** Arthur Heezen, Director, Data Strategy, Globe Life; **Dileep Kumar**, Senior Manager, Data Engineering and Cloud Data Platforms, Globe Life; **Srikanth Sopirala**, Principal Analytics Solutions Architect, AWS



#### **FSI309**

# Discover Financial Services: Payments mainframe to cloud platform

Discover Financial Services, a leading digital bank and payments company, transformed its payments business on AWS to enhance card-settlement capabilities and adapt to global market conditions while maintaining a highly secure network. In this session, Discover discusses the opportunity to improve its legacy system, the next-generation platform architecture on AWS, and the benefits of adopting pricing changes within 3 weeks (rather than 6 months). This session shares lessons learned from migrating from a batch-oriented mainframe to an internet-scale, PCI-compliant and resilient platform powered by Amazon EMR, AWS Lambda, Amazon DynamoDB, and Amazon RDS. The result: Discover now processes 4 million transaction records in 9 minutes.

**Featured speakers: Ewen McPherson**, Director - Payment Services BT Application Development, Discover Financial Services; **Don Drake**, Senior US-Central Analytics Solutions Architect

#### **FSI310**

## Fannie Mae: Migrating at scale without lifting and shifting

Since 2019, Fannie Mae has been executing large-scale application migrations to AWS to improve operational resilience, scalability, and security, all while reducing total cost of ownership, increasing developer productivity, and driving machine learning adoption across the enterprise. In this session, learn about Fannie Mae's strategy—avoiding lifting and shifting in favor of refactoring and replatforming application components using an AWS multi-account strategy that features modular virtual private cloud design and streamlined network connectivity. Use cases include replatforming OLTP databases to Amazon Aurora PostgreSQL with AWS DMS and rearchitecting applications using microservices patterns with AWS Fargate.

**Featured speakers:** Ramon Richards, Chief Information Officer, Fannie Mae; **Satya Addagarla**, Vice President, Singlefamily Technology Management, Fannie Mae; **Harsha Nippani**, Principal Solutions Architect, AWS



#### **FSI205-S**

# Building Farmers' infrastructure as code and landing zones on AWS (sponsored by Capgemini)

In this session, discover how designing and creating infrastructure as code and landing zones help automate the setup of secure and scalable multi-account AWS environments. Also, learn how you can implement Terraform to onboard several applications onto landing zones with increased speed and code reusability. This presentation is brought to you by Capgemini, an AWS Partner.

#### FS1206-S

# How TFS uses Snowflake and AWS to drive mobility financing (sponsored by Snowflake)

Helping millions of people get mobile while driving the vehicle of their dreams has been at the core of the Toyota Financial Services (TFS) mission. In this session, learn how TFS uses AWS and Snowflake for its data platform to provide capital financing at record speed for its customers and partners, like Mazda. Also, discover how TFS completely digitized the customer experience during the pandemic so that customers and partners could have easy access to the relevant data and services. This presentation is brought to you by Snowflake, an AWS Partner.

#### **AMZ201**

# Lumos: Amazon's secure, large-scale serverless payments system

Lumos is an intelligent, secure vault built using over 50 AWS services to store, protect, and process billions of payment transactions at Amazon. Lumos replaces the custom, isolated, on-premises infrastructure previously required for achieving security while processing payments at scale. In this session, learn about how Amazon Pay built a secure and cloud-native solution using AWS and how Lumos simplified the architecture, reduced infrastructure maintenance cost, and improved availability and redundancy.



#### **ANT307**

#### What's new with Amazon Athena

Amazon Athena is a highly scalable analytics service that makes it easy to analyze data in Amazon S3 and other data stores. Amazon Athena is serverless, so there is no infrastructure to manage, and you pay only for the queries that you run. This session offers a deep dive into the service, customer use cases, best practices, newly launched features, and what is next for Amazon Athena.

#### **ANT316**

# How Coinbase uses Amazon MSK as an event store for applications

In this session, learn how focusing on security, availability, and customer obsession has translated into operational excellence and product innovations with Amazon MSK, a managed service for Apache Kafka. This session features cryptocurrency exchange company Coinbase's experience managing streaming events and analyzing billions of daily cryptocurrency transactions with Amazon MSK. Dive into Coinbase's event streaming architecture to learn how it leverages Amazon MSK as an enterprise event bus to ingest and analyze a huge scale of events from users, applications, databases, and cryptocurrency sources across products.

#### **ANT318**

### Data lakes: Easily build, secure, and share data with AWS Lake Formation

Organizations are breaking down data silos and building petabyte-scale data lakes on AWS to democratize access to thousands of end users. In this session, learn about recent innovations in AWS Lake Formation that make it easy to build, secure, and manage your data lakes. Hear how an AWS customer built their data mesh architecture using Lake Formation to share data across their lines of business and inform data-driven decisions.



#### **ANT321**

### Set up managed quantitative research environments for financial services

Are you a financial services firm such as a hedge fund, sell side bank, or asset manager with quantitative financial analysts using Jupyter notebooks to perform financial analysis such as time series, portfolio, or risk analytics? Do your analysts require secure access to data across your enterprise? Do your analysts need scalable Apache Spark to process petabytes of data such as trade and quote data? In this chalk talk, learn how Amazon FinSpace provides a managed research notebook environment with the security controls you need and the ability to integrate with data from internal systems and third-party data feeds.

#### **AIM201**

### Make sense of your health data with Amazon HealthLake

Health data is frequently incomplete and inconsistent. It is often unstructured, with information contained in clinical notes, laboratory reports, insurance claims, medical images, and recorded conversations across disparate formats and systems. In this session, learn how Amazon HealthLake can help you make sense of health data. Discover how AWS Partners and customers, from population health management to care infrastructure, are finding new ways to apply machine learning technology and unlock new insights to improve care.

#### **AIM203**

# Turn your documents into insights with AWS machine learning services

Learn how organizations worldwide are leveraging intelligent document processing (IDP) to automate manual document-based activities, enabling them to process millions of documents in hours and automating low-value tasks to improve data management and customer satisfaction. In this session, hear from AWS customers about how they processed thousands of documents in seconds in order to audit the critical information locked inside.



#### **AIM206**

### How Bloomberg invested in smarter search with Amazon Kendra

Many companies struggle to validate new search paradigms alongside incumbent solutions because they have benefited from years of investment, customization, and user socialization. In this session, find out how Bloomberg used Amazon Kendra to build an ML-based search engine for a specific content set without needing to integrate with the legacy search infrastructure. Also, discover how Amazon Kendra fits into Bloomberg's product development strategy, how they implemented Amazon Kendra, and their experience working with the service, including implementation challenges and solutions using Amazon API Gateway, AWS Lambda, and Amazon DynamoDB.

#### **AIM319**

# Prepare data for ML with ease, speed, and accuracy (featuring Fidelity)

Join this session to learn how to prepare data for ML in minutes using Amazon SageMaker. SageMaker offers tools to simplify data preparation so that you can label, prepare, and understand your data. Walk through a complete data-preparation workflow, including how to label training datasets using SageMaker Ground Truth as well as how to extract data from multiple data sources, transform it using the prebuilt visualization templates in SageMaker Data Wrangler, and create model features. Also, learn how to improve efficiency by using SageMaker Feature Store to create a repository to store, retrieve, and share features.

#### **AIM320**

# Implementing MLOps practices with Amazon SageMaker (featuring Vanguard)

Implementing MLOps practices helps data scientists and operations engineers collaborate to prepare, build, train, deploy, and manage models at scale. During this session, explore the breadth of MLOps features in Amazon SageMaker that help you provision consistent model development environments, automate ML workflows, implement CI/CD pipelines for ML, monitor models in production, and standardize model governance capabilities. Then, hear from Vanguard as they share their journey enabling MLOps to achieve ML at scale for their polyglot model development platforms using Amazon SageMaker features, including SageMaker projects, SageMaker Pipelines, SageMaker Model Registry, and SageMaker Model Monitor.



#### **AIM321**

#### Use AutoML to create high-quality models

Join this session to learn about AutoML on AWS and to get an overview of the AWS options for AutoML, including AutoGluon, an open-source library for AutoML. Also, learn how to use Amazon SageMaker Autopilot to automatically build the best machine learning (ML) model based on your dataset. SageMaker Autopilot automatically trains and tunes hundreds of ML models and helps you pick the best model for your use case. You don't need to have a deep background in ML to get started fast. Simply provide your dataset, and SageMaker Autopilot takes care of the heavy lifting, including preparing features, testing algorithms, and optimizing hundreds of model parameters.

#### **AIM408**

#### Achieve high performance and costeffective model deployment (featuring Goldman Sachs)

To maximize your ML investments, high performance and cost-effective techniques are needed to scale model deployments. In this session, learn about the deployment options available in Amazon SageMaker, including optimized infrastructure choices; real-time, asynchronous, and batch inferences; multi-container endpoints; multi-model endpoints; auto scaling; model monitoring; and CI/CD integration for your ML workloads. Discover how to choose a better inference option for your ML use case. Then, hear from Goldman Sachs about how they use Amazon SageMaker for fast, low-latency, and scalable deployments to provide relevant research content recommendations for their clients.

#### **BLC201**

### Amazon Managed Blockchain: When to use blockchain

Building enterprise blockchain applications on your own infrastructure is often expensive, complicated, and time-consuming. Amazon Managed Blockchain makes it easy to build scalable blockchain applications by eliminating the need to set up and manage infrastructure, allowing you to focus on writing applications for your business. This session covers the new features and capabilities of Amazon Managed Blockchain for both Hyperledger Fabric and Ethereum and discusses customer stories across areas including decentralized finance, financial services, automotive, aviation, gaming, non-fungible tokens (NFTs), public sector, sustainability, and more.



#### **COP201**

# Gain enterprise visibility with AWS Cloud operation dashboards (featuring Venmo)

In this session, learn about the tools you can use to operate your AWS environment at scale. Whether you are in cloud operations, application administration, compliance, security, or all of the above, AWS can help you manage your cloud operations reliably and with observability. Join this session to learn how you can manage and operate applications in an environment that is designed to be secure and compliant. Also, see how Venmo operates their AWS environment at scale, globally, using native AWS observability and management dashboards to help them remain compliant.

#### **COP203**

# Cost control and governance at scale (featuring Morningstar)

Govern cloud usage and avoid cost surprises, all without slowing down innovation within your organization. In this session, learn how to set up guardrails, such as auto-cost-control actions in AWS Budgets or the ML-powered product AWS Cost Anomaly Detection. Discover the latest enhancements in the cost-control space, and learn how you can establish these safeguards to let your builders focus on what they do best—build!

#### **COP212-S**

# How Capital One continues to change banking for good at scale (sponsored by Capital One)

It's one thing to move to the cloud, but it's another to operate there at scale. Capital One was the first US bank to migrate out of data centers and move fully to the cloud. Today, Capital One is operating in a highly regulated industry at scale on AWS, focusing on cloud governance and resiliency, culture, and education to deliver intelligent solutions that benefit millions of customers. In this session, Capital One shares some important lessons they learned on this journey and discusses how they are using real-time data to develop some of their flagship applications and operating them at scale. This presentation is brought to you by Capital One.



#### **COP216-S**

# Guardian's digital transformation with AWS and Accenture (sponsored by Accenture)

This session details the cloud transformation at Guardian Life, a leader in individual life insurance. Learn about Guardian's aggressive business goals—such as improving time to market, reducing cost, and improving customer engagement—and how a solution powered by AWS and Accenture helped the company achieve high levels of agility and scalability. The session covers Guardian's implementation of the Accenture Life Insurance & Annuity Platform (ALIP), a new-age, cloud-native life insurance policy administration platform that provides the required functional and technical capabilities to streamline Guardian's processes and operations and deliver on their business goals. This presentation is brought to you by Accenture, an AWS Partner.

#### **COP220**

## Automate account provisioning and customization with AWS Control Tower

Do you need to create many accounts or create accounts regularly while making sure they meet user needs and your business and security policies? If so, join this session to learn how to provision and customize an AWS Control Tower managed account before delivering it to end users.

#### **COP222**

PLAY

# Maintain application availability and performance with Amazon CloudWatch

Avoiding unexpected user behavior and maintaining reliable performance is crucial. This session is for application developers who want to learn how to maintain application availability and performance to improve the end user experience. Also, discover the latest on Amazon CloudWatch.



PLAY

#### **LINK TO SESSIONS**

#### **COP301**

#### Cloud compliance, assurance, and auditing

In this session, learn how to continuously assess, manage, and maintain compliance for formalized standards such as those required by the Federal Risk and Authorization Management Program (FedRAMP), National Institute of Standards and Technology (NIST), and others. Also, learn about various auditing options, including auditing privileged access across services like Amazon S3 and Amazon DynamoDB. Dive deep into how you can achieve governance and compliance using preventive and detective guardrails and other AWS services.

#### **COM302**

## Building data lakes in highly regulated markets

Building a data lake on historic weather information is easy. Building a data lake for a bank in Europe or the government is a different matter. In this session, learn best practices implemented for customers in highly regulated markets. Dive deep into the overall architecture of a data lake built using cloud-native tools such as AWS Lake Formation and AWS Glue. Finally, discover answers to questions such as which tools are used to ingest various data sources into a data lake? How do you clean the data and make sure all metadata is in place? How do you make a data lake GDPR compliant?

#### **CMP313**

# Risk calculations using HPC and Spot Instances with Morgan Stanley

Join this session to learn how to prepare data for ML in minutes using Amazon SageMaker. SageMaker offers tools to simplify data preparation so that you can label, prepare, and understand your data. Walk through a complete data-preparation workflow, including how to label training datasets using SageMaker Ground Truth as well as how to extract data from multiple data sources, transform it using the prebuilt visualization templates in SageMaker Data Wrangler, and create model features. Also, learn how to improve efficiency by using SageMaker Feature Store to create a repository to store, retrieve, and share features.



#### **DAT305**

# Enabling workloads for high availability and durability with Amazon RDS, featuring Robinhood

To ensure your application is resilient, it's important to use a highly available and durable database. Amazon RDS is a managed database that makes it easy to set up, operate, and scale relational databases, and it provides access to various high-availability and high-durability features. In this session, learn about Amazon RDS Multi-AZ deployments and how they can provide you with enhanced availability and durability for your database instances. Also, hear from American financial services company Robinhood on how they use Amazon RDS for PostgreSQL and Multi-AZ to scale their business.

#### **DAT311**

# What's new in Amazon RDS for Oracle (featuring Goldman Sachs)

Many organizations today are looking to free themselves from the constraints of on-premises databases and take advantage of the power of fully managed databases in the cloud. Amazon RDS for Oracle is a fully managed relational database service that automates time-consuming database administration tasks while cost-effectively running your choice of Oracle database engine on AWS. In this session, dive deep into the new features and best practices that can make your Oracle database deployments highly available, scalable, secure, and manageable.

#### **DAT327**

### Build a serverless, event-driven architecture with AWS services

Many manufacturing, retail, gaming, and financial services organizations need critical real-time data aggregation. In this workshop, learn about an architectural pattern for a serverless data-aggregation pipeline on the AWS Cloud with fully managed services, including Amazon DynamoDB, AWS Lambda, and Amazon Kinesis. DynamoDB is a fast and flexible NoSQL database service for performance at any scale. Lambda is a serverless compute service that lets you run code without provisioning or managing servers. Kinesis makes it easy to ingest, buffer, and process streaming data in real time. Also learn about AWS CloudFormation templates to deploy, run, and test in minutes.



#### **ENT319-S**

# Accelerate your cloud migration for financial services (sponsored by PagerDuty)

The cloud offers enhanced scalability, business agility, and cost savings. But, did you know that 30 percent of cloud migration projects fail? Learn how to use PagerDuty and AWS to help connect people, processes, and technology and to quickly adapt to a constantly changing cloud infrastructure. This session shows you how financial service teams can use PagerDuty on AWS to up-level their digital operations approaches. Also, discover the new data signals you need to track an automated incident response and how to stay secure and build trust with PagerDuty, Amazon GuardDuty, and AWS Security Hub. This presentation is brought to you by PagerDuty, an AWS Partner.

#### **ENT221-S**

# A pragmatic guide to modernizing your mainframe (sponsored by Atos)

Companies have been trying to exit the mainframe for years but have thought it to be too costly or too disruptive. The pressures to retire the mainframe are increasing at a faster pace due to retiring talent, increasing maintenance costs, and needing more agility. In this session, discover a pragmatic, yet impactful way to transform your mainframes to the cloud while delivering a positive ROI, meeting application performance expectations, and delivering the business agility desired by your organization. This presentation is brought to you by Atos, an AWS Partner.

#### **ENT223-S**

# A technical deep dive on VMware Cloud on AWS Outposts (sponsored by VMware)

Learn how to bring cloud experience, agility, and innovation to the data center so that you can focus on business innovation, while VMware and AWS take care of managing your on-premises IT infrastructure. VMware Cloud on AWS Outposts is an on-premises-asa-service offering powered by VMware Cloud Foundation. It integrates VMware's enterprise-class Software-Defined Data Center software with nextgeneration, dedicated Amazon Nitro-based Amazon EC2 bare metal infrastructure. This session provides an overview of the service and its key use cases; technical specifications for VMware Cloud on the AWS Outposts rack; a description of the network topology, architecture, and order flow; a walkthrough of how to get started; and much more. This presentation is brought to you by VMware, an AWS Partner.



#### FWM201

# Accelerate front-end web and mobile development with AWS Amplify

User-facing web and mobile applications are the primary touchpoint between organizations and their customers. To meet the ever-rising bar for customer experience, developers must deliver high-quality apps with both foundational and differentiating features. AWS Amplify helps front-end web and mobile developers build faster front to back. In this session, review Amplify's core capabilities like authentication, data, and file storage and explore new capabilities, such as Amplify Geo and extensibility features for easier app customization with AWS services and better integration with existing deployment pipelines. Also learn how customers have been successful using Amplify to innovate in their businesses.

#### **MKT201**

# Use AWS Data Exchange to streamline data processing and analytics (featuring Goldman Sachs & FactSet)

In this session, Goldman Sachs discusses why they've decided to consume their financial data natively through AWS and how they've made data consumption and analytics more efficient and agile through AWS Data Exchange distribution methods. Hear also from FactSet leadership on why they're moving their financial exchange data to the cloud and using AWS Data Exchange to make their data more easily accessible and usable for AWS customers.

#### **QTC301**

PLAY

# Deep dive on quantum computing on AWS with Amazon Braket (featuring JPMorgan Chase & Co.)

Join this session for a deeper look at the AWS quantum computing service Amazon Braket. Amazon Braket provides access to real quantum computers, an SDK and managed notebook environments, and simulators to support your learning path for quantum research and development. This session explains key information about the different quantum processing units and circuit simulators on the service, shares learnings from an enterprise customer's research, and updates you on the latest features.



PLAY

#### **LINK TO SESSIONS**

#### **QTC305**

# Financial portfolio optimization with quantum computing

Financial services, one of the industries where quantum computing shows the most promise, offers several use cases that appear suitable for quantum solutions, including portfolio optimization. In this chalk talk, dive deep on approaches to portfolio optimization, drawing on lessons from Amazon Quantum Solutions Lab customer engagements. Discover how to formulate problems as quadratic, unconstrained, binary optimization (QUBO) problems, and consider approaches to solving QUBOs using quantum annealing as well as physics-inspired tools that can deliver commercially useful results today. Attend this session to prepare for the future of quantum finance.

#### **STP201**

# How BlockFi scales to meet demand for crypto asset services

The demand for crypto asset services is at an all-time high. To build next-generation solutions, blockchain and digital asset fintech startups, like BlockFi, rely on AWS services. In this session, learn from BlockFi, a crypto asset service provider, about what it takes to power a robust suite of financial products in the blockchain ecosystem. BlockFi Chief Security Officer Adam Healy also shares how the company is bringing critical credit services to underserved markets and bridging the gap between traditional and crypto-native firms.

#### **STP207**

# Using privacy-first data processing to make drivers smarter (featuring Cambridge Mobile Telematics)

With millions of daily drivers on its platform, Cambridge Mobile Telematics (CMT) uses AWS to process billions of miles driven each week. For smartphone telematics-based insurance and crash detection to be successful, though, drivers need to know their data is private, secure, and cared for. That's why CMT turned to AWS to build the leading privacy-first data processing and analytics platform with the highest-level ISO certifications. As data arrives from millions of smartphones into CMT's database, CMT's platform on AWS ensures data is secure and only used to make drivers smarter and the roads safer.



#### **STP215**

# Building a serverless banking as a service platform on AWS (featuring Solarisbank)

Solarisbank enables other companies to offer their own financial services with its banking as a service platform. Through APIs, partners integrate Solarisbank's modular banking services directly into their own product offerings. By migrating all of its core banking systems, digital products, and databases to AWS, Solarisbank became the first bank in Germany to fully migrate to the cloud. In this session, join Hima Mandali, CTO of Solarisbank, as he shares how an all-in on AWS approach speeds up the delivery process and drives innovation, while allowing the company to follow internal approval processes to ensure compliance, security, and integrity across the architecture.

#### **STP220**

# How fintech company Flutterwave achieved startup "unicorn status"

Flutterwave is a fintech startup that develops payment solutions to make it easier for businesses and people in Africa to make and accept payments across African countries and around the world. When the COVID-19 pandemic hit Nigeria, Flutterwave accelerated its development to support its customers. In this session, Olugbenga Agboola, Founder and CEO of Flutterwave, discusses how the company innovated and expanded its payment solutions business to create Flutterwave Store—a portal for African merchants to create digital shops to sell goods online. He'll also share the importance of staying true to your focus despite the vast opportunities in fintech today.

#### **STG208**

# AWS Transfer Family: The future of managed file transfer (featuring Goldman Sachs)

AWS Transfer Family modernizes and makes it easy to support recurring file transfers so your data arrives on time, is highly available, and can scale with your growing business. This session discusses the future of Transfer Family and how building a robust managed file transfer (MFT) solution on AWS can boost collaboration, reduce downtime, and break down data silos. Joining the Transfer Family team is Goldman Sachs, a leading global investment banking, securities, and investment management firm that is already shaping MFT use cases.



# **Financial Services**Chalk talks

Chalk talks are a highly interactive content format with a small audience. Each begins with a short lecture (10–15 minutes) delivered by an AWS expert, followed by a 45 or 50-minute Q&A session with the audience. The goal is to foster a technical discussion around real-world architecture challenges.



#### **FSI302**

### Building an Open Finance application on AWS

Initially driven by regulatory requirements in Banking, financial institutions from insurers to credit card companies are now adopting open APIs to deliver a better customer experience. Open Finance calls for greater collaboration between financial institutions and FinTechs to meet customers' changing needs. This chalk talk guides financial institutions on how they can implement Open Finance, an Amazon API Gatewayenabled offering that facilitates sharing of financial products, data, and services. We walk you through how to use AWS APIs to deploy Open Finance solutions to personalize products, create business agility, and empower customers with more control over their finances and data.

**Featured speakers: Rana Dutt**, Senior Solutions Architect, AWS; **Akash Jain**, Solutions Architect, AWS

#### **FSI303**

# Unlock business value with document processing ML pipelines

Data—and the ability to unlock value from it—is one of the most important assets of a modern enterprise. But creating efficient ways to extract, process, store, and reference unstructured data locked in PDFs, images, and static documents can be challenging. This session introduces an open source solution to stand up a serverless, file-agnostic document processing pipeline, complete with data lineage and metadata services. This solution effectively manages costs, even at scale, and keeps security and innovation at the core of the design. Attendees will then share their own potential use cases, and we'll discuss pipeline workflows to address their requirements.

**Featured speakers: Mojgan Ahmadi**, Principal Solutions Architect, AWS; **David Kheyman**, Community Solutions Architect. AWS

#### **FSI311**

# Your blueprint for Financial Services data lake migrations

Financial institutions are increasingly looking to consolidate data housed in disparate systems using a data lake, but many find that building a data lake from scratch or migrating an existing OLAP database can be a daunting task. This chalk talk will provide a blueprint for deploying, migrating, and establishing the first step in setting up a secure and scalable data lake on AWS. The advantage of this blueprint is that it acts as a guide to help decide how data will get ingested, what tools can migrate, and what types of data sources can be migrated to your data lake.

**Featured speakers: Jeremiah O'Connor**, Solution Architect, AWS; **Priyanka Chaudhary**, Data Architect, AWS



#### **FSI312**

# Optimizing data integration and ingestion in mergers and acquisitions

The technology integration of mergers and acquisitions (M&A) can be complex, ranging from re-platforming to re-architecting. Planning for a technology integration can take months while CFOs ensure compliance with local and global requirements such as exposure reporting, OFAC screening, and customer communication, all under one entity. In this chalk talk, explore the interim-stage activities of an acquisition and review an M&A data-factory architecture built on AWS, featuring services including Amazon MSK, Amazon Athena, and AWS Glue. The M&A data factory architecture acts as an integration hub for post-closing compliance, operating under a new legal entity while integration planning is underway.

#### **FSI313**

# Shift record retention from obligation to advantage

Financial institutions need modern ways to ingest, process, store, and retrieve records while pursuing compliance with record-keeping regulations. In this chalk talk, see how to transform a costly on-premises record retention program into a strategic advantage. Learn how to build a secure, scalable, and costeffective solution on AWS that enables you to gain deeper business and customer insights from your retained records.

**Featured speakers: Manjula Nagineni**, Solutions Architect, AWS; **Mojgan Ahmadi**, Principal Solutions Architect

**Featured speakers: Alket Memushaj**, Global Account Solution Architect, AWS; **Russell Lewis,** Compliance Specialist, AWS

#### **FSI314**

# Facilitating cross-border payments with machine learning

Banks that process cross-border payments must migrate from legacy SWIFT MT messages to the new ISO 20022 standard. The new format includes many additional fields, which increases the complexity of ensuring that messages meet the requirements of specific counterparties. In this chalk talk, explore an open-source set of tools developed by AWS in collaboration with SWIFT to generate large sets of ISO 20022 payment message data. Discover a machine learning pipeline that uses the message data to train a model to predict whether a given payment message would be accepted without manual exception processing.

**Featured speakers: Sanjay Dwivedi**, Principal, Prototype Architect, AWS; **Gloria Vargas**, Account Manager, AWS



#### **808MIA**

### Harness the power of ML to protect your business with Amazon Fraud Detector

How does more than 20 years of Amazon experience fighting fraud translate into an AI service that can help companies detect more online fraud faster? In this session, learn how Amazon Fraud Detector transforms raw data into highly accurate ML-based fraud detection models. Then, discover how the service does data preparation and validation, feature engineering, data enrichment, and model training and tuning. Finally, with actual customer examples across a wide range of industries and fraud use cases, find out how the service makes deployment easy.

#### **AIM312 [REPEAT AVAILABLE]**

# Applying AWS machine learning to next-gen DevOps

While DevOps technology has evolved dramatically over the last few years, it is still challenging. Issues related to concurrency, security, or handling of sensitive information require expert evaluation and often slip through existing mechanisms like peer code reviews and unit testing. Even for organizations that can invest in developers who are expert code reviewers, the pace at which the software is developed creates high volumes of complex code that are difficult to review manually. Join this chalk talk to learn how the AWS next-gen DevOps portfolio helps augment your developer's expertise with machine learning (ML) capabilities to establish automation and more proactive mechanisms that enable teams to innovate faster with confidence.

#### **AIM316**

# AI workflow automation for document processing

Mortgage packets have hundreds of documents in various layouts and formats. Using machine learning (ML), you can set up a document-processing pipeline to automate mortgage application workflows like extracting text from W2s, paystubs, and deeds; classifying documents; or using custom entity recognition to pull out specific data points. In this workshop, learn various ways to use optical character recognition (OCR), natural language processing (NLP), and human-in-the-loop services to build a document-processing pipeline to automate mortgage applications—saving time, reducing manual effort, and improving ROI for your organization.



#### **ARC322**

# **Building DDoS-resilient perimeters with response automation**

Mitigating distributed denial of service (DDoS) attacks is essential to maintaining application availability and performance. DDoS attacks can act as a cover for intrusion attempts or a first step for attacks against backend infrastructure. It's crucial that builders architect for DDoS resiliency and maintain robust operational capabilities that allow for rapid detection during high-severity events. In this chalk talk, learn how to build a DDoS-resilient perimeter while applying the principles of the AWS Well-Architected Framework and leveraging services like AWS Shield Advanced, AWS WAF, AWS Global Accelerator, an Application Load Balancer, AWS Firewall Manager, and Amazon Route 53 to defend against DDoS attacks.

#### **BLC301 [REPEAT AVAILABLE]**

# Zero to hero: Building your first NFT on blockchain

Curious how blockchain, Central Bank Digital Currencies (CBDCs), non-fungible tokens (NFTs), and digital assets can transform your customers' businesses? Then this chalk talk is for you! Verification and ledger technologies including blockchain services like Amazon Managed Blockchain help businesses transform their operations while providing transparency and cutting costs. By tokenizing physical and digital assets, customers are able to shorten settlement times, reduce potential cost risks, and create new business models. Join this chalk talk to hear from AWS blockchain veterans and get hands on creating your first digital assets on the Ethereum blockchain.

#### **COP305 [REPEAT AVAILABLE]**

# Cloud compliance and auditing best practices on AWS

In this chalk talk, learn the various ways that you can achieve industry and configuration compliance with the help of AWS Cloud operations services. Also, learn the best practices for auditability, including ways that you can maintain appropriate auditing for formalized compliance standards such as the Federal Risk and Authorization Management Program (FedRAMP) and National Institute of Standards and Technology (NIST).



#### **CMP320 [REPEAT AVAILABLE]**

# Dive deep on cloud use cases with AWS Outposts

AWS Outposts supports workloads that require low-latency access to on-premises systems, local data processing, data residency, and migration of applications with local system interdependencies. In this chalk talk, learn tips and tricks about deploying Outposts. Dive deep into each of the relevant use cases and consider reference architectures, design considerations, and recommended practices based on how AWS customers are using Outposts with integrated third-party solutions today.

#### **ENT202**

# Accelerating a 142-year-old financial institution into cloud fluency

Learn what it takes to transform a 142-year-old financial institution into a cloud-fluent community of lifelong learners and what that means for their customers. Principal Financial Group is a Fortune 500 company and global investment management leader that chose to work with AWS to meet their rapidly changing customer needs. At a time when financial technology startups are challenging traditional financial institutions, Principal launched their global cloud training and certification program, Cloud Accelerate, to invest in their workforce and provide them with the right resources and knowledge to accelerate their innovation and drive value for customers.

#### **SEC315 [REPEAT AVAILABLE]**

# Cloud-native data loss-prevention control with Goldman Sachs

Organizations are storing an unprecedented and increasing amount of data on AWS for a range of use cases, including data lakes, analytics, machine learning, and enterprise applications. They want to make sure that sensitive non-public data is only accessible to authorized users from known locations. In this chalk talk, dive deep into controls in Amazon S3 that allow you to create a data perimeter by allowing access to data only from expected network locations and trusted identities. Join this chalk talk to review different data-access patterns and the available data-perimeter controls, including identity and access management, networking controls, and encryption.



#### **SEC215**

# Evidence collection with AWS Audit Manager

In this chalk talk, learn how AWS Audit Manager helps with your continuous compliance. Walk through the steps to set up Audit Manager in your organization and learn best practices for configuration to gain the most benefit for evidence collection. Watch a demonstration of day-to-day use of Audit Manager with actionable information to reduce workloads before and during audit cycles. Also learn how additional automation can be built to improve evidence collection coverage. Audit Manager experts will be on hand to answer your questions and provide feedback on your ideas for using Audit Manager.

#### **STP211 [REPEAT AVAILABLE]**

# Automating and evidencing key compliance security controls

If you're in the healthcare industry and subject to HIPAA compliance or a fintech organization subject to SOC 2 compliance, attend this chalk talk to consider a few controls commonly required for multiple compliance standards. Learn from AWS security solutions architects and compliance specialists about methods for automating, monitoring, and evidencing key controls, as well as how to talk about these controls with your auditor or regulated customer.

#### **STG341 [REPEAT AVAILABLE]**

# Accelerating a 142-year-old financial institution into cloud fluency

This chalk talk provides a deep dive into AWS Backup benefits, features, use cases, and setup. Explore the integration of AWS Backup with other services (AWS Organizations, Amazon SNS, Amazon CloudWatch, AWS KMS) and its structure (including information about backup plans, backup vaults, protected resources, backup jobs, monitoring, and policies).



# Financial Services Workshops

Workshops are two-hour hands-on sessions where you work in teams to solve problems using AWS services.



#### **FSI304**

# Policy as code: How to automate security and compliance

How can financial institutions provide builders self-service access to AWS while still ensuring their security and risk mitigation objectives are met? A common approach is to document these objectives and manually inspect AWS CloudFormation templates to determine compliance. Alternatively, you can express these objectives in policy languages like Open Policy Agent (OPA) and AWS CloudFormation Guard 2.0 (cfn-guard). In this workshop, gain hands-on experience writing OPA and cfn-guard policies for network accessibility, encryption of data at rest, least-privileged access, and other controls common to financial services organizations. Review both local and deployment pipeline execution modes.

#### **AIM316**

# Al workflow automation for document processing

Mortgage packets have hundreds of documents in various layouts and formats. Using machine learning (ML), you can set up a document-processing pipeline to automate mortgage application workflows like extracting text from W2s, paystubs, and deeds; classifying documents; or using custom entity recognition to pull out specific data points. In this workshop, learn various ways to use optical character recognition (OCR), natural language processing (NLP), and human-in-the-loop services to build a document-processing pipeline to automate mortgage applications—saving time, reducing manual effort, and improving ROI for your organization.

#### **AIM318 [REPEAT AVAILABLE]**

# Build an intelligent document processing solution for claims adjudication

Claims adjustment is a manual process performed by insurance companies under tight time pressure. The process is tedious, as claims forms have no standard template and can stretch over 100 pages. The Document Understanding Solution for Claims presents a means of automatically extracting the important information from these claims forms to help adjusters quickly adjudicate a claim and formulate a response. In this workshop, discover how the Document Understanding Solution for Claims uses Amazon Textract and Amazon Comprehend to extract important categories into a formatted template for adjusters to easily complete their work.



#### **BLC302**

# Building an Ethereum app with Amazon Managed Blockchain

Ethereum popularized the concept of smart contracts, enabling a multitude of decentralized applications that securely run on a blockchain. Amazon Managed Blockchain is a fully managed service that makes it easy to join the public Ethereum network, eliminating the overhead required to set up the necessary infrastructure. In this session, learn how to use Amazon Managed Blockchain and service integrations to set up popular architecture patterns among Ethereum workloads.

#### **COP310 [REPEAT AVAILABLE]**

#### **Cloud compliance and assurance**

In this hands-on workshop, learn how to assess and manage compliance and security drift in the cloud. Explore how to map the three lines of defense to automated compliance management, continuous oversight, continuous assessment, and automated evidence gathering and reporting. Also, receive guidance on how to break down silos between business owners, operations, security, compliance, and audit teams using services related to cloud compliance and assurance.

#### **STG309**

## Integrating serverless applications with AWS storage services

AWS Lambda is a serverless compute service that lets you run code without provisioning or managing servers. In this workshop, gain hands-on experience integrating AWS Lambda with Amazon S3 and Amazon EFS.



# Financial Services Builders' sessions

Builders' sessions are 60-minute small group sessions with up to six attendees per table, and one AWS expert, who is there to answer questions and provide guidance. It's just you, your laptop, and the AWS expert.



#### **FSI315**

### Test resiliency in financial services with chaos engineering

Critical systems in the financial services industry require extreme resiliency, which traditionally means planning exercises done on paper. With limited ability to simulate real-world events, technology teams are unable to verify how their systems would react to failure scenarios. In this builders' session, using the concepts of chaos engineering and the AWS Fault Injection Simulator service, learn how to run experiments on your cloud-based applications in order to test their ability to recover from live failures. Attendees should have a basic understanding of Amazon VPC, Amazon EC2, AWS IAM, and Amazon RDS.

#### **STG338 [REPEAT AVAILABLE]**

#### How to optimize Amazon S3

As your dataset grows on Amazon S3, it becomes increasingly valuable to use tools and automation to manage and analyze your data and optimize storage costs using the Amazon S3 storage classes. In this builders' session, discover key considerations for storing data in frequently accessed, infrequently accessed, and long-term backup and archive storage. Learn about Amazon S3's flexible management capabilities to classify, report, and visualize your data usage trends so you can make informed decisions to optimize performance and cost.

#### **STG401**

### Get the most out of your Amazon EFS deployments

Amazon Elastic File System (EFS) is a simple, serverless, set-and-forget elastic file system that brings highly available, highly durable file storage to a wide variety of applications. In this builders' session, AWS experts share best practices for optimizing performance when accessing data from your Amazon EFS file system. Dive deep into the performance modes within Amazon EFS, and learn how to design your workload to get the most from your file system.



# Other recommended sessions

Take advantage of everything re:Invent has to offer: learning and networking opportunities with peers and experts are available across the campus.





Other recommended sessions

ANALYTICS
APPLICATION INTEGRATION
<u>ARCHITECTURE</u>
ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING
BUSINESS APPLICATIONS
BUSINESS INTELLIGENCE
CLOUD OPS
COMPUTE
<u>DATABASES</u>
<u>DEVOPS</u>
END USER COMPUTING
ENTERPRISE/MIGRATION
INNOVATION

<u>IOT</u>
NETWORKING AND CONTENT DELIVERY
<u>OPEN SOURCE</u>
QUANTUM TECHNOLOGIES
SECURITY, COMPLIANCE, AND IDENTITY
<u>SERVERLESS</u>
<u>STARTUP</u>
<u>STORAGE</u>
ADDITIONAL SESSIONS OF INTEREST



**CONTACTS &** 

RESOURCES

**ANALYTICS** 

**LINK TO SESSIONS** 

#### **Breakout Session**

#### **ANT209-S**

### Connect real-time data to Amazon Redshift with Confluent (sponsored by Confluent)

Lifting and shifting your traditional data warehouse to Amazon Redshift can take a significant time investment. Join this session to learn how Confluent and Apache Kafka can help accelerate your data-led migration to AWS by building a secure connection across the cloud and hybrid environments. Learn how to connect your Amazon Redshift data to any application.

#### **Chalk Talk**

#### **ANT306-R1 [REPEAT AVAILABLE]**

#### Modernize your log analytics solution with Amazon OpenSearch Service

Amazon OpenSearch Service is a fully managed service that makes it easy for you to deploy, secure, and run OpenSearch and Apache 2.0-licensed Elasticsearch clusters cost-effectively at scale. In this chalk talk, learn how to ingest data into Amazon OpenSearch Service from Amazon ECS using FireLens for logging and AWS Distro for OpenTelemetry for distributed tracing.

#### **Breakout Session**

#### **ANT210-S**

### Bold plans, big results: Johnson & Johnson's data warehouse migration

How can a company balance the risks of organizational disruption with the rewards of ecosystem innovation? Simple—with careful planning, diligent execution, and relentless validation. Learn how Johnson & Johnson is converting its on-premises enterprise data warehouse into a modern cloud showpiece, shifting big challenges into big results.

#### **Breakout Session**

#### **ANT310**

### How VMware Carbon Black uses Amazon Kinesis to detect cybersecurity issues

VMware Carbon Black's cloud-native intelligent threat detection system uses Amazon Kinesis Data Streams and other AWS services. Join this session to dive deep into how VMware Carbon Black, a leader in cybersecurity, processes trillions of events per day to uncover concerning behavioral patterns and detect and prevent cybersecurity risks.

#### **Breakout Session**

#### **ANT211-S**

### Hot, fresh, and fast: Brinker's recipe for analytics success (sponsored by Teradata)

Migrating the enterprise data warehouse from farm to table (that is, on premises to cloud) is just the start. A "balanced meal" also includes 500,000 daily queries and a full helping of Python and machine learning to optimize scheduling and boost guest satisfaction. In this session, discover how Teradata Vantage on AWS helps Brinker's challenges disappear.

#### **Breakout Session**

#### **ANT317**

#### Serverless data integration with AWS Glue

The first step in an analytics or machine learning project is to prepare your data to obtain quality results. AWS Glue is a serverless data integration service that makes data preparation simpler, faster, and cheaper. In this session, learn about the latest innovations in AWS Glue and hear how an AWS customer uses AWS Glue to enable self-service data preparation across their organization.



APPLICATION INTEGRATION

LINK TO SESSIONS

#### **Breakout Session**

#### **API201**

### Application integration patterns for microservices

An implication of applying the microservices architectural style is that a lot of communication between components is done over the network. In order to achieve the full capabilities of microservices, this communication needs to happen in a loosely coupled manner. In this session, explore fundamental application integration patterns based on messaging and connect them to use cases.

#### **Breakout Session**

#### **API304**

### Building next-gen applications with event-driven architectures

Many difficult problems in modern enterprise workloads can be solved with event-driven architectures. In this session, learn how to use event-based architecture to decouple and decentralize application components. You can use AWS messaging services to connect microservices and coordinate data flow, using minimal custom code.

#### **Breakout Session**

#### **API202**

### Using an event-driven application pattern to improve customer experience

In this session, learn how to use location capabilities such as tracking, geofencing, routing, map visualization, and geocoding in your serverless applications in a way that is secure, protects the privacy of your users, is scalable, and improves your customer experience. With Amazon Fresh, Amazon's grocery pickup service, as an example application, discover how to estimate customer arrival time.

#### **Chalk Talk**

#### API305-R1 [REPEAT AVAILABLE]

### How to select the right application integration service

Sometimes, architects are unsure about which application integration approach is best. Even when you know which integration approach you need, there are different protocols and services to choose for each category. In this chalk talk, review a decision tree designed to help you select the right application integration service(s) for your situation, and discuss your real-world example with AWS experts.

#### **Chalk Talk**

#### **API203**

#### Break down data silos with AWS integration

Data silos are one of the largest challenges to enterprises trying to develop their intelligence capabilities. Manual data integration is time-consuming, expensive, and often unreliable. In this chalk talk, learn how you can use Amazon AppFlow—a fully managed, bidirectional data-integration service—along with other AWS integration services like AWS Step Functions.



ARCHITECTURE

**LINK TO SESSIONS** 

#### **Breakout Session**

#### **ARC201**

### Reliable scalability: How Amazon.com scales in the cloud

**BREAKOUT** 

SESSIONS

Learn how Amazon.com got big fast, and see their evolution from a monolithic architecture to a massively scalable system based on service-oriented architecture and microservices. See how Amazon.com adopted DevOps before it even had that name and how DevOps was crucial to enabling the reliable, scalable architectures that Amazon.com needed.

#### **Breakout Session**

#### **ARC325**

#### **Architecting for sustainability**

This session dives deep into techniques recommended by the AWS Well-Architected Framework and provides direction on reducing the energy and carbon impact of AWS architectures. Learn about user patterns, software design, and AWS service considerations. As an example, discover how Starbucks optimized its Kubernetes cluster and focused on digital sustainability.

#### **Breakout Session**

#### ARC205

#### Remote workforce cloud migration patterns

In this session, learn about remote workforce cloud migration patterns, such as virtual desktop, collaboration tooling, and cloud contact centers, following considerations and best practices from the AWS Well-Architected Framework. For each remote workforce pattern, consider the migration path, deployment approach, and application of the AWS Well-Architected Framework.

#### **Breakout Session**

#### **ARC326**

### Beyond five 9s: Lessons from our highest available data planes

Every AWS service is designed to be highly available, but a small number Tier 0 services get extra-special attention. In this session, discover how AWS has built and architected Amazon Route 53 and the AWS authentication system, which is designed to survive cataclysmic failures, enormous load increases, and more. Learn our approach to redundancy and resilience at the infrastructure, software, and team levels.

#### **Breakout Session**

#### **ARC207**

### The architect elevator: Connecting IT and the boardroom

This session prepares architects to "ride the elevator" between the IT engine room, where software is built, and the boardroom, where executive decisions are made. Learn from customer examples how developing a deeper understanding of a system's architecture allows you to communicate clearly to a diverse set of stakeholders.

#### **Breakout Session**

#### **ARC402**

#### Amazon EKS SaaS deep dive: A multitenant EKS SaaS solution

In this session, dig into a complete, end-to-end Amazon EKS SaaS reference solution, looking at how it addresses fundamental multi-tenant considerations. Examine its approach to core SaaS topics, including tenant isolation, identity, onboarding, tenant administration, and data partitioning. The goal is to explore an Amazon EKS SaaS architecture through the lens of working code.



AI/ML

**LINK TO SESSIONS** 

#### **Breakout Session**

#### **AIM201**

### Make sense of your health data with Amazon HealthLake

Health data is frequently incomplete and inconsistent. In this session, learn how Amazon HealthLake can help you make sense of health data. Discover how AWS Partners and customers, from population health management to care infrastructure, are finding new ways to apply machine learning technology and unlock new insights to improve care.

#### **Breakout Session**

#### **AIM301**

### Use SageMaker to develop ML models faster, featuring Qualtrics

In this session, learn how to use SageMaker for data labeling, data preparation, feature engineering, statistical bias detection, training, tuning, deployment, monitoring, MLOps, and human review. Then, hear from Qualtrics on how they achieved an ML platform that caters to the complete ML lifecycle using SageMaker capabilities for a variety of use cases, including natural language processing.

#### **Breakout Session**

#### **AIM205**

### How Zillow and Genesys are transforming customer conversations

In this session, Zillow and Genesys share how they implemented AWS Contact Center Intelligence (CCI) solutions to provide self-service automation, real-time call analytics to assist agents, and post-call analytics. See firsthand how AWS CCI enables them to better understand their customer journey, equip agents with the knowledge they need, and provide customers with effective answers to their questions.

#### **Breakout Session**

#### **AIM321**

#### Use AutoML to create high-quality models

Join this session to learn about AutoML on AWS and to get an overview of the AWS options for AutoML, including AutoGluon, an open-source library for AutoML. Learn how to use Amazon SageMaker Autopilot to automatically build the best machine learning (ML) model based on your dataset. SageMaker Autopilot automatically trains and tunes hundreds of ML models and helps you pick the best model.

#### **Breakout Session**

#### **AIM207**

### AI/ML for sustainability innovation: Insight at the edge

In this session, learn how the power of AI/ML and IoT can be brought as close as possible to the challenging edge environments that provide data to create these insights. Also learn how AWS puts AI/ML in the hands of the largest-scale fisheries on the planet and of the policy makers addressing health equity in the context of climate change.

#### **Breakout Session**

#### AIM326-S

### How Pitney Bowes uses Snowflake and SageMaker for on-time delivery

Scaling within months requires a new approach to operational excellence in terms of staff planning and facility capacity management. In this session, learn how Pitney Bowes quickly met rapidly growing demand while continuing to meet their on-time delivery promise by using machine learning with the Snowflake Data Cloud and Amazon SageMaker. This presentation is sponsored by Snowflake, an AWS Partner.





### Breakout Session BIZ201

### Embed scalable communication services into applications with AWS

AWS Communication Developer Services, including Amazon SES, Amazon Chime SDK, and Amazon Pinpoint, allow developers to improve communication with their customers. Discover new innovations, customer stories, and tips for engaging customers around the world using email, SMS, push notifications, chat, audio, video, and voice over the Public Switched Telephone Network (PSTN).

#### **Breakout Session**

#### **BIZ204**

### Improving CX with omnichannel contact center interactions

Delivering cohesive experiences with customer services teams can be challenging. Learn how Amazon Connect, an easy-to-use omnichannel cloud contact center, uses machine learning, automation, and inbound and outbound communication channels across voice and chat to improve business outcomes. Also, hear how to improve customer issue resolutions while saving contact center costs.

#### **Breakout Session**

#### **BIZ202**

### Unlocking continuous CX innovation with Amazon Connect

Businesses must continuously innovate and adopt new processes to stay ahead of customer expectations. In this session, learn how Amazon Connect, an easy-to-use cloud-based contact center, can help you increase customer satisfaction by delivering an ongoing, scalable customer experience (CX) through continuous innovation.

#### **Breakout Session**

#### **BIZ210-S**

### Improving customer loyalty with Service Cloud Voice (sponsored by Salesforce)

In this session, learn how to turn voice into a digital channel to elevate customer experiences. Discover how service teams build loyalty by successfully integrating phone with CRM automation and digital channels from anywhere around the world. This presentation is sponsored by Salesforce, an AWS Partner.

#### **Breakout Session**

#### **BIZ203**

### Improve agent performance with ML-powered Amazon Connect

Empowering your contact center agents is critical to improving customer satisfaction. Learn how Amazon Connect, powered by machine learning, can improve agent performance and productivity, using Contact Lens for Amazon Connect, Amazon Connect Voice ID, and Amazon Connect Wisdom. Discover how to build your own easy-to-use cloud contact center in just a few clicks; no technical expertise needed.

#### **Chalk Talk**

#### **BIZ303-R1** [Repeat Available]

### Scaling business communications with Amazon Pinpoint

Amazon Pinpoint is a multichannel communications service used to send billions of messages to end users worldwide. Explore how to architect an Amazon Pinpoint solution for enterprise scale and for campaigns that span business units or companies, while ensuring that resources, access controls, audiences, and templates are aligned. Also, learn how to connect external data sources.



BUSINESS INTELLIGENCE

**LINK TO SESSIONS** 

### Breakout Session BSI201

#### True augmented analytics at scale with Amazon QuickSight Q

In our increasingly fast-paced world, it is critical for companies to make data-driven business decisions quickly. In order to move fast, teams need the ability to answer business questions without relying on the time-consuming efforts of business intelligence (BI) teams. In this session, the Amazon QuickSight team provides an overview of Q and guidance on how to get started with this new capability.

#### **Chalk Talk**

#### **BSI204-R1 [REPEAT AVAILABLE]**

### Authoring configuration for Amazon QuickSight Q

Amazon QuickSight Q is a machine learning-powered capability that uses natural language processing to instantly answer business questions about data. Q interprets questions to understand their intent and generates an answer instantly in the form of a visual, without requiring authors to create visuals, dashboards, or analyses. Learn about Q and the question types that are currently supported.

#### **Breakout Session**

#### **BSI202**

### Modernize your BI and reporting with Amazon QuickSight

Organizations increasingly strive to improve data literacy for all their employees and reduce dependence on IT and data scientists while gaining efficiency by moving to the cloud. Join this session to learn how customers have modernized their advanced analytics, self-service, and reporting needs by migrating to Amazon QuickSight.

#### **Chalk Talk**

#### **BSI301-R1 [REPEAT AVAILABLE]**

#### Advanced deployment options at scale with Amazon QuickSight

Learn about Amazon QuickSight deployment methodologies and best practices around multitenancy, cross-account data connectivity, single signon, content migration, and automation, to give you confidence deploying into even the most sophisticated environments.

#### **Breakout Session**

#### **BSI203**

### **Enhance your apps with Amazon QuickSight embedded analytics**

Empower your users by embedding business analytics capabilities directly into your application. Join this session to learn about QuickSight's new capabilities for embedding rich data visualizations within SaaS applications that provide governance and data security. The session also shows how QuickSight can be easily connected to your choice of data services on AWS.



### Breakout Session COP201

### Gain enterprise visibility with AWS Cloud operation dashboards

Learn about the tools you can use to operate your AWS environment at scale. Whether you are in cloud operations, application administration, compliance, security, or all of the above, AWS can help you manage your cloud operations reliably and with observability. Join this session to learn how you can manage and operate applications in an environment that is designed to be secure and compliant.

#### **Breakout Session**

#### **COP301**

#### Cloud compliance, assurance, and auditing

Learn how to continuously assess, manage, and maintain compliance for formalized standards such as those required by the Federal Risk and Authorization Management Program (FedRAMP), National Institute of Standards and Technology (NIST), and others. Also, learn about various auditing options, including auditing privileged access across services like Amazon S3 and Amazon DynamoDB.

### Breakout Session COP202

#### Improving cost visibility and allocation

Improve financial transparency and define a costallocation strategy tailored to meet the complex needs of your business. Join this session and learn how to organize cost and usage for even the most complex of organizations across dimensions specific to your workload. Establish the necessary cost visibility and accountability within your organization and start running your IT shop like a business.

#### **Breakout Session**

#### **COP302**

### Best practices for centralized operations management on AWS

In this session, learn how to build, manage, and operate your mission-critical applications in a secure, automated, reliable, and cost-effective way. This session covers how you can use a single control plane across multiple AWS solutions to manage and govern resources on AWS, on premises, and in hybrid environments. Join this session to learn compliance management to manage mission-critical applications.

#### **Breakout Session**

#### **COP205**

### Cloud operations at scale with AWS Managed Services

In early 2021, AWS Managed Services (AMS) added AMS Accelerate, a capability that allows AWS operations engineers to work alongside customer and partner engineering teams to deliver AWS operations services. In this session, hear from GE about why they chose to add AMS to their operations suite and the outcomes they've realized, followed by an overview of AMS Accelerate.

#### **Breakout Session**

#### **COP401**

### Customizing and scaling your AWS Control Tower environment

AWS Control Tower provides the easiest way to set up and govern a secure, multi-account AWS environment. Discover best practices for deploying a scalable Customizations for AWS Control Tower (CfCT) pipeline. Learn about the most common CfCT customizations you should consider for your landing zone, including identity and network management and governance.



**COMPUTE** 

**LINK TO SESSIONS** 

### Breakout Session CMP201

#### **What's new in Amazon EC2**

Amazon EC2, a foundational AWS service, provides resizable compute capacity in the cloud and makes web-scale computing easier. This breakout session provides an overview of what's new to the Amazon EC2 portfolio, including updates on Amazon EC2 capabilities and instance families, Amazon EBS, networking functionality, and edge and hybrid offerings.

#### **Breakout Session**

#### **CMP301**

#### The journey of silicon innovation at AWS

Organizations are bringing diverse workloads onto AWS at a faster rate than ever before. To run diverse workloads with the performance and costs that users expect, AWS often innovates on their behalf and delivers breakthrough innovations, even at the silicon level. Explore AWS's journey into silicon innovation and discuss some of the thought processes, learnings, and results thus far.

#### **Breakout Session**

#### **CMP202**

### HPC on AWS: Innovating without infrastructure constraints

High performance computing (HPC) has always been about solving the most complex problems, but for far too long, HPC applications and workloads have been constrained by infrastructure capacity. Learn how flexible configuration, virtually unlimited scale, and AWS's HPC-focused solutions enable researchers and engineers to tune and scale infrastructure as their workloads dictate, not the other way around.

#### **Breakout Session**

#### **CMP311**

### AWS Outposts: Bringing the AWS experience on premises

AWS Outposts is a fully managed service that brings AWS infrastructure and services to your environments in virtually any data center, collocation space, or onpremises facility using the same hardware, software, and management tooling used in AWS Regions. In this session, closely examine how an Outpost works, including how we modified the AWS Nitro System to work on-premises.

### Breakout Session CMP204

#### **Extending AWS to where organizations need it**

Enterprises are adopting the AWS Cloud at a rapid pace to reduce costs, become more agile, and innovate faster. While most workloads can be easily migrated to the cloud, some remain on premises or in edge nodes due to low latency, local data processing, or data residency requirements. Learn how AWS is reinventing hybrid by extending AWS to virtually anywhere organizations need it.

#### **Breakout Session**

#### **CMP314**

### Accelerate innovation with AWS ML infrastructure services

From Amazon EC2 P3 instances that provide great performance for ML training to Amazon EC2 G4 instances for inference and Amazon EC2 Inf1 instances that provide low-cost ML inference in the cloud, there's a right instance for each of your ML workload needs. In this session, dive deep into these instances, learn about benchmarks, and discover guidelines on ideal use cases for each instance.



**DATABASES** 

**LINK TO SESSIONS** 

### Breakout Session DAT201

#### **What's new in Amazon RDS**

Amazon RDS is a fully managed database service that allows you to launch an optimally configured, secure, and highly available database easily. It manages time-consuming database administration tasks, freeing you to focus on your applications and business. In this session, learn about all the new capabilities launched for Amazon RDS across different engines and review the latest features.

**BREAKOUT** 

SESSIONS

#### **Breakout Session**

#### **DAT303**

### Amazon DynamoDB: Driving innovation at any scale

Hundreds of thousands of AWS customers use DynamoDB because it is fully managed and offers single-digit millisecond performance at any scale. Learn about the latest DynamoDB features and ear from Latin American ecommerce company Mercado Libre about how they migrated 5,000+ Apache Cassandra databases to DynamoDB without changing a line of code.

#### **Breakout Session**

#### **DAT202**

#### Real-world use cases with graph databases

Organizations use the relationships in their data to uncover patterns and expand their businesses. They do so by building knowledge graphs to link and discover data, identity graphs to better understand customers and devices, fraud graphs to use relationships to detect fraudulent activities, and many other applications. Explore examples of how organizations are using Amazon Neptune.

#### **Breakout Session**

#### **DAT305**

### Enabling workloads for high availability and durability with Amazon RDS

Amazon RDS is a managed database that makes it easy to set up, operate, and scale relational databases .Learn about Amazon RDS Multi-AZ deployments and how they can provide you with enhanced availability and durability. Hear from American financial services company Robinhood on how they use Amazon RDS for PostgreSOL and Multi-AZ to scale their business.

#### **Breakout Session**

#### **DAT206-S**

### A developer's guide to data modeling with document databases (sponsored by MongoDB)

As the saying goes, with great data modeling flexibility comes even greater responsibility! Join this session to learn how to model your data with document databases and use your data model's flexibility to support your application's development. Also, learn the best practices for developing your document data model.

#### **Breakout Session**

#### **DAT401**

#### **Deep dive on Amazon Aurora**

Amazon Aurora is a modern database service that offers performance and high availability at scale. Dive deep to learn how Aurora is designed, how it operates, and how to get the most out of it so you can power everything from dev/test applications to your most demanding, high-performance database workloads.



PLAY

**DEVOPS** 

LINK TO SESSIONS

### Breakout Session DOP208

#### **DevOps Revolution**

While DevOps has not changed much, the industry has fundamentally transformed over the last decade. In this session, learn about the next phase of DevOps: a distributed model that emphasizes swift development, observable systems, accountable engineers, and resilient applications.

#### **Breakout Session**

#### **DOP310**

### **Enabling decentralized development teams** with a shared services platform

In this session, dive deep into the crawl, walk, and run options and best practices for building a shared services platform on AWS using tools and services such as AWS Copilot, AWS Proton, and pre-built solutions using AWS CloudFormation.

#### **Breakout Session**

#### **DOP301**

### How to reuse patterns when developing infrastructure as code

Explore the AWS Cloud Development Kit (AWS CDK) constructs and AWS CloudFormation modules and how they can be used to make building applications easier on AWS. Learn how you can extend CloudFormation to include support for third-party resources and how those resource types can be used by AWS Config.

#### **Breakout Session**

#### **DOP311**

### Incorporating continuous resilience in your development ecosystem

In this session, explore various considerations for implementing processes designed to provide continuous improvement through a DevOps methodology. Review various services that can incorporate resilience in the development process in a nearly continuous manner.

#### **Breakout Session**

#### **DOP309**

### Amazon builders' library: Operational excellence at Amazon

Senior Principal Engineer David Yanacek describes Amazon's operational practices that he has observed during his 15 years of building and operating services at Amazon. Hear David describe the habits that teams have adopted, such as how teams handle retrospectives, share knowledge, and regularly review operational metrics as a team.

#### **Breakout Session**

#### **DOP315**

### What's new and what's next with AWS CloudFormation and AWS CDK

Join this session to learn about new features to uplevel your infrastructure-as-code (IaC) experiences on AWS. Explore how AWS is improving our IaC coverage of AWS services and features in a scalable, decentralized way and how you can contribute.



**END USER COMPUTING** 

**LINK TO SESSIONS** 

### **Breakout Session EUC201**

### The future of virtualization and workforce agility

This session is designed for IT decision-makers and administrators who are thinking about the future of their workforce in a post-COVID-19 world and business decision-makers looking to create SaaS versions of their desktop applications.

#### Chalk Talk

#### **EUC304 [REPEAT AVAILABLE]**

### Security best practices for Amazon WorkSpaces and Amazon AppStream 2.0

Designed for IT decision-makers and administrators who are looking to maximize the security of their Amazon WorkSpaces and Amazon AppStream 2.0 deployments. Topics include encryption in transit and at rest, firewalls and routing, trusted devices and locations, controlling data ingress and egress, and monitoring and logging.

#### **Breakout Session**

#### **EUC301**

### Architecting for workforce agility with AWS end user computing

This session provides an overview of and best practices for Amazon WorkSpaces and Amazon AppStream 2.0. It also dives deep into implementing these services, including how to integrate them with your existing identity, security, networking, and storage solutions.

#### **Breakout Session**

#### **EUC305-S**

### Engineering for social impact through the power of HPC (sponsored by Intel)

Intel and AWS are collaborating on a new high performance computing (HPC) program to support users who are aiming to find solutions to the world's most urgent social and environmental challenges. This session provides insight into the computing initiative that Intel and AWS are leading with major social impact organizations.

#### **Chalk Talk**

#### **EUC303**

### When to choose Amazon WorkSpaces and Amazon AppStream 2.0

Designed for IT decision-makers and administrators looking to choose among the many service and bundle options for Amazon WorkSpaces and Amazon AppStream 2.0, this chalk talk provides a framework for which service, bundles, and protocols are right for your use cases and IT environment.

#### **Breakout Session**

#### **EUC402**

### Scaling & maintaining Amazon WorkSpaces & Amazon AppStream 2.0 deployments

Designed for end user computing (EUC) customers looking to scale their current deployments, this chalk talk provides a step-by-step walkthrough of cost management and optimization options, providing proven methodologies to scale up quickly and securely and improve end user experience, reliability, and cost performance.



**ENTERPRISE & MIGRATION** 

**LINK TO SESSIONS** 

### Breakout Session ENT209

### Learn how MAP can help you achieve your business outcomes

For many organizations, a move to the cloud is not only the fastest way to lower the total cost of ownership, but it also increases agility. AWS has migrated thousands of organizations and packaged best practices in a simple framework. In this session, learn about AWS migration and modernization best practices, the framework, and how it can help you achieve business outcomes.

#### **Breakout Session**

#### **ENT312**

#### Intelligently automating cloud operations

Learn how to automate insights intelligently using AWS management, DevOps, and machine learning tools. Operational insights across security, fault tolerance, and performance can be revealed by Amazon Inspector, AWS Config, Service Quotas, AWS Health, AWS Well-Architected Tool, and AWS Trusted Advisor.

#### **Breakout Session**

#### **ENT210**

#### **Modern application development**

The cloud can help companies modernize their applications through technology, but companies benefit most from the cloud when they modernize their delivery practices and transform their organizations and cultures. In this session, discover strategies and customer stories that can help you modernize your people, processes, and applications to take full advantage of the cloud.

#### **Breakout Session**

#### **ENT314**

#### **Pattern-based migrations to AWS**

Establishing technical patterns is critical to drive organization-wide transformation and key to rapid migrations. Identifying application patterns at an abstract portfolio level allows the development of migration plans to deliver rapid and consistent business outcomes for your organization. In this session, hear from an enterprise about how it drove change in its transformation to AWS.

#### **Breakout Session**

#### **ENT212**

### Prescriptive enterprise transformation powered by AWS

Learn about AWS's approach, built from success patterns of other traditional enterprise customers, and the business benefits your organization can achieve. Gain insight into critical success factors for digital transformation and how the AWS team can support your journey. Hear from customers who have completed this journey and how you can get started with AWS.

#### **Breakout Session**

#### **ENT316**

#### **Transforming your technical landscape**

Explore degrees of modernization, rationalizing components that may be common across your technical landscape and considering common templates for teams within your organization. These strategies can help drive fundamental changes to your technical landscape. Also, hear from an enterprise customer on their transformation journey, its challenges, and their unique benefits.



**INNOVATION** 

**LINK TO SESSIONS** 

### Breakout Session INO201

#### Amazon's culture of innovation

In this session, be introduced to Amazon's peculiar culture and how we innovate through four distinct yet interdependent elements: Culture, Mechanisms, Architecture, and Organization. Dive deep on each topic, and learn about practical applications including Leadership Principles, Working Backwards, Two-Pizza Teams, the PRFAQ doc, and more.

#### **Chalk Talk**

#### **INO204 [REPEAT AVAILABLE]**

### Rapid transition from innovative idea to delightful solution

How do you build and launch an offering that will surprise and delight your customers? Learn how AWS transitions from an outlined solution that works backwards from a customer problem or opportunity to a developed offering.

#### **Breakout Session**

#### **INO202**

### How Amazon.com transforms customer experiences through AI/ML

Understand Amazon.com's approach to launching and scaling ML-enabled innovations in its core business operations and toward new customer opportunities. See examples from various Amazon businesses to learn how Amazon applies AI/ML to shape its customer experience while improving efficiency, increasing speed, and lowering cost.

#### **Chalk Talk**

#### **INO205 [REPEAT AVAILABLE]**

### Making high-velocity decisions at scale and speed

Learn about concepts and mechanisms, such as Leadership Principles, tenets, and one-way and two-way doors, that inform speed and prioritization. Also explore the benefits of fast and friendly escalation and more—all in a highly dynamic, collaborative environment that practically applies these concepts to real-world business scenarios.

#### Workshop

#### **INO203**

#### **Introduction to Working Backwards**

This highly collaborative workshop is inspired by the same customer-centric methods used by Amazon to develop breakthrough innovations our customers love, such as Amazon Prime, Amazon Kindle, AWS, Amazon Echo and Alexa, and Amazon Go. It introduces the Working Backwards process and takes you through some of the key activities and outputs.



loT

LINK TO SESSIONS

### Breakout Session IOT201

### Predicting equipment health with IoT in power and utilities

Regardless of whether the source of power is oil and gas, wind, or solar, predictive maintenance is a critical business need for all leaders in the power and utilities (P&U) space. In this session, learn how AWS provides secure, scalable, and cost-effective solutions to help P&U leaders reduce operations and maintenance spend and improve quality metrics and equipment life using insights from equipment data.

#### **Breakout Session**

#### **IOT206**

#### Scaling sustainability solutions with IoT

Organizations are deploying billions of connected devices in commercial buildings, factories, homes, cars, and other locations to improve operational efficiency. They're also building IoT solutions to support sustainability initiatives, including creating intelligent and efficient buildings. Learn how companies are deploying secure IoT solutions on AWS for a more sustainable future.

#### **Breakout Session**

#### **IOT202**

### Migrate and innovate faster with AWS IoT for connected products

Connected products can range from Roomba vacuum cleaners to Peloton fitness bikes, and more.

Transforma Insights estimates that there will be 125 billion connected devices by 2030 with revenue in the trillions of dollars. Discover insights, best practices, and patterns AWS has learned through our experience connecting millions of devices across different regions and industry verticals.

#### **Breakout Session**

#### **IOT313**

### Enhancing telecommunications CPE data collection & analytics with AWS

Broadband service providers around the world are using customer-premises equipment (CPE) management systems to control large fleets of CPE devices. Learn about common data collection patterns, detailed reference architectures, and analytics use cases that telecommunications customers deployed to reduce operational expenditure and improve customer experiences.

#### **Breakout Session**

#### **IOT204**

### Building connected auto solutions with AWS IoT

Learn about connected auto and mobility best practices that were discovered through hundreds of engagements and thousands of activations. Find out how to customize different microservices, from the edge to the cloud, to build innovative and differentiated solutions for use cases from in-vehicle personalization to safety monitoring, behavioral analytics, anomaly detection, diagnostics, and more.

#### **Chalk Talk**

#### **IOT315**

### Accelerate your IoT designs with a system on a chip

Learn how to choose from a variety of system-on-achip modules for your hardware design to simplify and harden IoT connectivity before writing a single line of code. Learn what a system on a chip does and how to integrate it from hardware and software perspectives. Also, experience its simplicity by learning the few lines of code needed to connect and interact with the AWS Cloud.



NETWORKING AND CONTENT DELIVERY

**LINK TO SESSIONS** 

### Breakout Session NET206

### Advanced Amazon VPC design and new capabilities

Amazon VPC gives you complete control over your AWS virtual networking environment. Have you ever wondered how new Amazon VPC features affect the way you design your AWS networking infrastructure or change existing architectures that you use today? This session explores the answers to these questions and more.

#### **Breakout Session**

#### **NET306**

### AWS Well-Architected Framework for hybrid networks

The AWS Well-Architected Framework helps you build a secure, high-performance, resilient, and efficient infrastructure for your applications and workloads. In this session, learn how you can build hybrid networks, and discover the key considerations, best practices, and tips and tricks around operational excellence, security, reliability, performance efficiency, and cost optimization.

#### **Breakout Session**

#### **NET208**

### Integrate Amazon EKS with your networking pattern

Because of its security, reliability, and scalability capabilities, Amazon EKS is used by organizations in their most sensitive and mission-critical applications. This session focuses on how you can set up networking for Amazon EKS, connect it to Amazon VPC, and expose your Kubernetes application using Elastic Load Balancing and AWS App Mesh.

#### **Breakout Session**

#### **NET318**

### Building resilient and low-latency gaming architectures on AWS

Global gaming applications have unique requirements when it comes to low latency and resiliency toward distributed denial of service (DDoS) events. Learn how to improve low-latency gaming architecture using AWS edge services. Also, discover how to work with the AWS Shield Response Team to apply custom DDoS mitigations designed for unique challenges you face in the gaming industry.

#### **Breakout Session**

#### **NET210**

### Building low-latency websites with Amazon CloudFront

Join this session to learn how you can improve your website latency, security, and availability with the Amazon CloudFront content delivery network. Explore how CloudFront Functions and recently introduced integrations such as QUIC, Brotli, and TLS1.3 can enrich your application. Additionally, learn from real-world CloudFront implementations.

#### **Breakout Session**

#### **NET324**

### The 2021 guide for protecting your websites at the edge

In this session, learn about the latest solutions for protecting your websites and APIs against cyberattacks such as DDoS attacks, application bugs, and malicious bots. Explore the updated architectural best practices for resiliency, including latest AWS WAF and AWS Shield features, such as Bot Control. Discover how you can fight millions of bots at scale using advanced AWS WAF automations.



**OPEN SOURCE** 

**LINK TO SESSIONS** 

### Breakout Session OPN201

**Breakout Session** 

**OPN307** 

together

#### How Apache Lucene's community built mergeon-refresh

In 2020, Amazon completed a multiyear migration of its customer-facing product search engine onto a new service based on Apache Lucene, supported by many AWS services In production, Amazon observed Lucene's segmented nature influencing query latency and had an idea to reduce its segment count. This session dives deep into this year long journey.

**OpenSearch: Building the future of search** 

search and analytics suite that makes it easy to

securely ingest, search, and analyze data. In this

and reliability, lower cost at scale, observability

analytics, machine learning capabilities, and

extensibility enhancements.

OpenSearch is a new community-driven, open-source

session, gain insight into the new functionalities being

built for OpenSearch, including improved performance

#### **Breakout Session**

**OPN204** 

#### **Introduction to GraphQL**

GraphQL is an open-source API query language. This session provides an introduction to GraphQL theory and practice. Learn the three superpowers of GraphQL, how GraphQL compares to REST API, and how to take GraphQL into production.

### **Breakout Session**

#### **OPN308**

### ML with Metaflow and Kubernetes: Prototype to production on Amazon EKS

At AWS re:Invent 2019, Netflix addressed the data science challenge by open-sourcing Metaflow. Now, Metaflow is helping other organizations standardize their data science pipelines and seamlessly move from prototype to production. This session explores data science pipelines on Amazon EKS and other open platforms and how Metaflow is bringing its vision to the Kubernetes ecosystem.

### Breakout Session OPN301

#### **Using Rust to minimize environmental impact**

Rust is one of the most energy-efficient and safe programming languages. With Rust, it may be possible to reduce the environmental impact of the IT industry by 50% and prevent 70% of all high-severity CVEs. In this session, dive into the "super powers" of Rust, hear about the work ahead to give those powers to every engineer, and hear the ways you can contribute.

#### **Breakout Session**

#### **OPN317**

#### **Observability with Pixie**

Pixie is a new open-source tool that allows you to collect observability data across all of your compute instances without any code changes. In this session, dive deep into Pixie's components and integrations, and learn how to deploy Pixie into your production environment.



QUANTUM TECHNOLOGIES

**LINK TO SESSIONS** 

### Chalk Talk QTC201 [REPEAT AVAILABLE]

### How to get started with quantum computing on Amazon Braket

Join this chalk talk to learn how you can get started in quantum computing. AWS quantum computing experts show you how to access and use Amazon Braket and run a common quantum algorithm. Then, get your questions answered on how best to explore the space.

#### **Chalk Talk**

#### **QTC304**

### Use case insights from BMW Group quantum challenge

Enterprises and governments are exploring areas where quantum computers may one day provide an advantage over classic approaches. In this chalk talk, contemplate where quantum computers may help. Learn from the Amazon Quantum Solution Lab's work defining use cases for quantum computing with the BMW Group for the 2021 BMW Group Quantum Computing Challenge.

#### **Chalk Talk**

#### QTC302 [REPEAT AVAILABLE]

### Use machine learning tools and skills for quantum computing

The state of quantum computing today resembles the early days of machine learning (ML). Open-source software such as PennyLane is helping developers and researchers explore the combination of ML and quantum principles and use familiar ML tools to program quantum circuits. Learn how to use PennyLane and the Amazon Braket quantum computing service together using your ML skills.

#### **Chalk Talk**

#### **QTC306**

#### Using Julia to program quantum computers

Learn the basics of quantum computing using Amazon Braket and Julia. With Julia, you can develop fast, readable code that uses the simulators and quantum computers available on Amazon Braket to solve graph coloring problems, perform quantum machine learning, and implement state-of-the-art algorithms for near-term quantum devices.

#### **Breakout Session**

#### **QTC303**

### The path to a fault-tolerant quantum computer

Achieving quantum advantage for commercially useful applications in industries like life sciences, finance, and manufacturing requires quantum computers that can scale to large numbers of qubits and operate with low error rates. Learn about the AWS Center for Quantum Computing's advancements in both quantum hardware and algorithms and much more.



SECURITY, COMPLIANCE, IDENTITY

**LINK TO SESSIONS** 

### Breakout Session SEC203

### AWS Security Reference Architecture: Visualize your security

How do AWS security services work together and how do you deploy them? The new AWS Security Reference Architecture (AWS SRA) provides prescriptive guidance for deploying the full complement of AWS security services in a multi-account environment. Discover an authoritative reference to help you design and implement your own security architecture on AWS.

#### **Breakout Session**

#### **SEC318**

### Securing your data perimeter with VPC endpoints

VPC endpoints enable you to lock your data into your networks as well as assert network-wide security invariants. Learn how to use your network perimeter as a straightforward defensive perimeter around your data in the cloud. This session provides practical guidance on what you can do with VPC endpoints and details how to configure them as part of your data perimeter strategy.

#### Chalk Talk

#### SEC314-R1 [REPEAT AVAILABLE]

#### The journey to least privilege on AWS

Discover how to create logical isolation boundaries for your data and applications using AWS accounts, apply guardrails to allow your developers to experiment and innovate safely using identity and access management policies, and right-size access permissions using IAM Access Analyzer and other tools. Bring your questions and experiences to share.

#### **Breakout Session**

#### **SEC221-S**

### Powering security operations with analytics and automation (sponsored by Splunk)

High-performing security teams detect and respond to threats early and quickly. Splunk's deep technical integrations and offerings on AWS help teams gain quantifiable operational improvements. Discover how you can save hours and weeks during data onboarding and configuration. Detect more threats earlier and respond to them instantly.

#### **Breakout Session**

#### **SEC317-S**

### Earning customer trust with GRC and security programs (sponsored by MongoDB)

Building and maintaining customer trust in the marketplace is increasingly important, and using governance, risk, and compliance (GRC) frameworks alongside AWS security controls can help you build that trust. Learn how your GRC program can align with your security function.

#### **Breakout Session**

#### **SEC326-S**

### DevSecOps or SecDevOps? Demystifying security as code (sponsored by Check Point Software)

Working successfully with the cloud requires both effective security and seamless automation. Learn from cloud security experts about how you can stop the most advanced attacks, secure your automation and automate your security, and discover best processes for adopting a security as code mindset for ultra-modern architectures.



**SERVERLESS** 

**LINK TO SESSIONS** 

#### **Breakout Session**

#### **SVS201**

### Getting started building your first serverless application

In this session, get first-hand insight and practical steps for getting started building serverless web applications. This session walks you through evolving from a single AWS Lambda function into a fully-featured web application that uses Amazon API Gateway, Lambda, Amazon DynamoDB, the AWS Amplify Console, and more. Learn why serverless is a great toolset for experimenting with new ideas.

#### **Breakout Session**

#### **SVS301**

#### Serverless security best practices

This session explores how to think about security from the front to the back of a typical serverless application. How do you configure AWS serverless services to provide least-privileged access while ensuring functionality? How should you think about managing IAM policies for your AWS Lambda functions? We will leave you with concrete examples applicable to almost any workload.

#### **Breakout Session**

#### **SVS208**

### Building serverless applications with infrastructure as code

In this session, learn how to move from the console to the AWS Serverless Application Model (AWS SAM) framework. Construct a serverless application using reusable templates designed specifically for serverless. Develop, debug, and deploy your serverless applications to multiple environments with a simple command line. Finally, learn how to go from a serverless application on your laptop to production.

#### **Breakout Session**

#### **SVS310**

### Architecting your serverless applications for hyperscale

In this session, learn about core principles to prepare your serverless applications for hyperscale, including how to apply these architectural patterns and best practices practically, and explore a major launch use case from start to finish. Learn how techniques such as asynchronous processing, caching, rate limiting, and AWS Lambda performance optimizations can help you scale your serverless workload.

#### **Breakout Session**

#### **SVS210-S**

### Cloud-native hyperscale with Dynatrace and AWS Lambda (sponsored by Dynatrace)

This session discusses how Dynatrace can help you deliver better software faster if you are building applications based on AWS Lambda or a microservices architecture. Learn how the Dynatrace software intelligence platform is built to tame the complexity of today's modern cloud and serverless architectures with end-to-end observability for AWS Lambda.

#### **Breakout Session**

#### **SVS402**

### Best practices of advanced serverless developers

Are you an experienced serverless developer? Do you want a guide for unleashing the full power of serverless architectures for your production workloads? In this session, learn about architectural best practices, optimizations, and handy cheat codes that you can use to build secure, high-scale, high-performance serverless applications. Real customer scenarios illustrate the benefits.



STARTUP

**LINK TO SESSIONS** 

### Breakout Session STP204

### Engineering for IPO with scalable architectures

The road to an IPO comes with scale—the ability to build, organize, and govern an offering that continues to deliver on its core promise. Learn how to establish architecture and governance for scale and to prepare the engineering landscape for IPO or acquisition. Embrace must-learn lessons for any startup in latestage alignment or on the cusp of acceleration in public markets.

#### **Breakout Session**

#### **STP212**

### Improving the human experience in healthcare with Olive

Learn how Olive used AWS to create a durable, scalable, and reliable infrastructure to harness the game-changing benefits of medtech and the Internet of Medical Things (IoMT). Explore how Olive manages a robust neuron/data lake using AWS Lambda, Amazon SNS, and Amazon SQS to streamline interfaces for providers and patients.

#### **Breakout Session**

#### **STP205**

### How running on AWS is paying off for Starburst Data

Raising \$164 million in funding and achieving a \$1.2 billion valuation three years after launching on AWS Marketplace indicates that AWS has greatly advanced Starburst Data's ability to offer key solutions at scale. See why Starburst Data uses an AWS-first approach as their go-to-market strategy, how they've benefited from using the latest tech, and what co-marketing strategies have worked well.

#### **Breakout Session**

#### **STP213**

### How startups are building solutions for a sustainable future

Startups are using AWS to innovate quickly as they develop technologies and materials that enable a low-carbon future. Learn how startups are delivering scalable solutions to support a wide range of programs, including energy efficiency, renewable energy, sustainable transportation, and sustainable agriculture. Also, discover how to manage data needed to gauge and share progress.

#### **Breakout Session**

#### **STP206**

### **Drift on AWS: Transforming how businesses** buy from businesses

Drift, a leader in conversational commerce, helps businesses accelerate their revenue via dynamic, personalized sales and marketing experiences. In this session, Drift's Cofounder and CEO David Cancel discusses the important role that AWS plays as his company leads the evolution of enterprise sales.

#### **Chalk Talk**

#### **STP302 [REPEAT AVAILABLE]**

### Exploring multi-Region application architecture patterns

Are you trying to expand and scale your startup's use cases? Consider multi-Region architecture and asynchronous data replication for a variety of applications, including data sovereignty, data locality, and disaster recovery. In this chalk talk, explore how to design and build an application architecture that supports multi-Region tendencies using AWS services.



**STORAGE** 

**LINK TO SESSIONS** 

#### **Breakout Session STG204**

#### **Data archiving and digital preservation** solutions with AWS

Learn how to manage long-term data archiving and digital asset preservation needs with AWS. This session details compliance use cases requiring writeonce-read-many (WORM) protection and AWS methods for data validation and fixity checking that help ensure data is available when needed by using Amazon S3 Glacier and S3 Glacier Deep Archive.

#### **Breakout Session**

#### **STG302**

#### **Deep dive on Amazon FSx for Lustre**

In this session, learn how customers are using Amazon FSx for Lustre high-performance file systems to reduce their compute costs. The session also details how Foundation Medicine is using FSx for Lustre to transform cancer care for their patients. Leave with best practices and tips to accelerate your compute-intensive workloads.

#### **Breakout Session**

#### **STG205**

#### AWS storage solutions for containers and serverless applications

Modern applications have revolutionized application architecture by using containers for greater portability and/or building applications on serverless infrastructure to optimize compute resources. In this session, look at different storage services, including Amazon EFS, Amazon S3, and Amazon EBS, to help determine which storage is the best fit for your modern applications.

#### **Breakout Session**

#### **STG305**

#### **Best practices for managing Amazon S3** data at scale

As your organization grows into storing millions to billions of objects and terabytes to petabytes of data on Amazon S3, it becomes increasingly valuable to use tools and automation to handle that scale. This session provides a detailed overview of Amazon S3 Lifecycle management, S3 Batch Operations, S3 inventory reports, S3 Replication, and other features.

#### **Breakout Session**

#### **STP207**

#### Best practices for moving your data to AWS, online and offline

This session explores how you can use AWS DataSync and the AWS Snow Family (AWS Snowcone, AWS Snowball, and AWS Snowmobile) to accelerate moving your data to Amazon S3, Amazon EFS, and Amazon FSx. It also highlights use cases, best practices, and how to use the Snow Family and DataSync together.

#### **Breakout Session**

#### **STG315**

#### Deep dive on Amazon S3 security and access management

Strong adherence to architecture best practices and proactive controls is the foundation of storage security and access controls. In this session, find out the best practices for data security in Amazon S3. Then, learn about the Amazon S3 security architecture fundamentals, and dive deep into the latest enhancements in usability and functionality.



**OTHER** 

**LINK TO SESSIONS** 

#### **Breakout Session**

#### **ALX202**

#### What's new with Amazon Alexa

With more than 130,000 published skills, the Alexa Skills Kit (ASK) continues to push forward, making new opportunities for developers who want to build engaging voice experiences with Amazon Alexa. In this session, explore the latest trends in ambient computing, dive deep into some of the most innovative Alexa skills.

#### **Breakout Session**

#### FWM204

### Building the re:Invent app with Amazon Location Service

Learn how Amazon Location Service is helping the re:Invent team provide attendees and fleets with accurate information on routes, locations, distances, and estimated travel times. See how they are utilizing a fully managed serverless solution to support attendees with clear and trustworthy location data and how you can do the same at your own events.

#### **Breakout Session**

#### **AMZ302**

### MLOps at Amazon: How to productionize ML workloads at scale

In this session, discover how to reduce production-level ML infrastructure delivery time from weeks to hours (with specific data and examples from Amazon) and how these mechanisms enable data scientists to focus on innovation instead of infrastructure, allowing them to easily reuse or generate new ML solutions.

#### **Breakout Session**

#### **FWM302 [REPEAT AVAILABLE]**

### Deep dive on authorization and data with AWS Amplify

This chalk talk details how virtually everything works in Amplify's authorization and data categories. Topics will range from authentication and authorization to tokens, signatures, access control mechanisms, GraphQL queries, mutations, subscriptions, and data access patterns. The chalk talk covers details on the basics as well as theory and customizations.

#### **Breakout Session**

#### **BLC304 [REPEAT AVAILABLE]**

#### Making legal contracts smarter

In this chalk talk, learn about the key building blocks of this technology and look at the benefits that blockchain and ledger databases bring based on two use cases: company incorporation with tokenized shares and digital trade with tokenized ownership of bill of lading documents.

#### **Breakout Session**

#### **ROB302**

### How cloud-based simulation is advancing robotics space exploration

LEARN how AWS customers use AWS RoboMaker to automate running horizontally scalable, physics-based simulations to test a wide-array of scenarios, such as autonomous navigation, in challenging terrains. Then, hear from Justin Cyrus, the CEO of Lunar Outpost, about how Lunar Outpost built their cloud-enhanced lunar rover to help ensure its survival on the moon.



# Keynotes

Join our live keynotes and be the first to hear the latest from AWS. All the keynotes are available live from Las Vegas, with repeat and on-demand viewing options available also.





**TUESDAY NOV. 30, 8:00 AM** 

### **Adam Selipsky Keynote**

Adam Selipsky is the CEO of Amazon Web Services (AWS), the world's most comprehensive and broadly adopted cloud platform. Having previously led AWS Marketing, Sales, and Support for 11 years, from 2005–2016, Selipsky helped launch and grow AWS from a startup into a multi-billion dollar business. Prior to rejoining AWS in 2021, Selipsky was most recently President and CEO of Tableau Software. He led Tableau through its acquisition by Salesforce, in what was the third-largest software industry acquisition at the time. Selipsky has also held various leadership roles at RealNetworks, and before that, was a Principal at strategy consulting firm Mercer Management Consulting. He has an AB in government from Harvard University and an MBA from Harvard Business School.





#### THURSDAY DEC. 2, 8:00 AM

#### **Dr. Werner Vogels Keynote**

This keynote, presented by Dr. Werner Vogels, Chief Technology Officer, Amazon.com, is a must-see for developers of all levels. Join Werner to get a behind-the-scenes look at AWS, and be inspired by the latest application and architecture ideas worth considering. Throughout the keynote Werner will take you through examples of applications that have been built at AWS that were previously considered impossible, as well as exciting new developer-focused product launches.



#### WEDNESDAY DEC. 1, 3:00 PM

#### **Peter DeSantis Keynote**

Join Peter De Santis, SVP, AWS Infra & Support, Infrastructure Leadership, for the Infrastructure Keynote at re:Invent. Peter's keynote will look behind the scenes at how AWS operates, dive deep on our custom silicon, and also cover security and privacy. Watch this keynote to see how AWS thinks and operates differently, and delivers solutions for all our customers.



#### WEDNESDAY DEC. 1, 8:00AM

#### **Machine Learning Keynote**

Join Swami Sivasubramanian, Vice President, Amazon Machine Learning, for the 2021 Machine Learning keynote. You'll learn why you need to start your data journey now, and how to continue it in to the future. Swami's keynote will encompass databases, analytics, and machine learning, and show you how AWS is the obvious choice to modernize, unify, and then innovate with data.



#### MONDAY NOV. 29, 3:00 PM

#### **Global Partner Summit Keynote**

Join us for the Global Partner Summit keynote, presented by Doug Yeum, Head of AWS Partner Organization, Sandy Carter, Vice President, Worldwide Public Sector Partners and Programs, and Stephen Orban, General Manager of AWS Marketplace and Control Services. You'll learn about cloud-powered innovation and the opportunity it creates for AWS Partners, as well as how AWS Partners use the AWS Cloud to build innovative solutions and services, differentiate their businesses, and enable customers in virtually every industry to transform their businesses.



## Leadership Sessions

Hear directly from AWS leaders as they share the latest advances in AWS technologies, set the future product direction, and motivate you through compelling success stories. Leadership sessions are live in Las Vegas, and on-demand for virtual attendees.



**PLAY** 

**LINK TO SESSIONS** 

### **Leadership** Sessions\*



SPOTLIGHT SESSION

All Builders Welcome

#### **Modupé Congleton**

Director, Inclusion, Diversity & Equity



SPOTLIGHT SESSION

AWS Executive Panel

#### Francessca Vasquez

Vice President, Technology

### **Leadership** Sessions\*



AWS Marketplace

#### **Stephen Orban**

General Manager, AWS Marketplace



**AWS Public Sector** 

#### **Max Peterson**

Vice President, Worldwide Public Sector



AWS Public Sector Partners

#### **Sandy Carter**

Vice President, Worldwide Public Sector Partners and Programs



AWS Storage

#### **Mai-Lan Tomsen-Bukovec**

Vice President, Worldwide Public Sector Partners and Programs



AI/ML

#### **Bratin Saha**

Vice President, Machine Learning



### **Leadership** Sessions\*



Analytics

#### **Rahul Pathak**

Vice President, Analytics



Architecture

#### **Brian Taptich**

Vice President, AWS Worldwide Specialist Organization



**Business Applications** 

#### Peter Hill

Vice President, Business Applications



**Cloud Operations** 

#### **Bill Vass**

Vice President, Engineering – Storage, Automation, Streaming & Management



Compute

#### **David Brown**

Vice President, Amazon EC2

### **Leadership** Sessions\*



Containers

#### **Deepak Singh**

Vice President, Compute Services



Databases

#### **Jeff Carter**

Vice President, Relational Databases



Developer

#### **Ken Exner**

Director, AWS Developer Tools



Edge

#### **Bill Vass**

Vice President, Engineering – Storage, Automation, Streaming & Management



Enterprise and Migration

#### **Todd Weatherby**

Vice President, Professional Services

### **Leadership** Sessions\*



IoT

Michael MacKenzie General Manager, AWS IoT



Networking & Content Delivery

**David Brown** 

Vice President, Amazon EC2



Security, Compliance, and Identity

**Stephen Schmidt** 

Vice President and Chief Information Security Officer



Serverless

**David Richardson** 

Vice President, Serverless



Training & Certification

**Maureen Lonergan** 

Director of AWS Training and Certification

# Play

This year at re:Invent, we have something for everyone. Join us in Las Vegas for a celebration of our 10th annual re:Invent.



### Play









#### **Midnight Madness**

Once again this year, we will be hosting an AWS-style pep rally to kick off the week and welcome our most dedicated fans. Midnight Madness provides a sneak peek into re:Invent, complete with the first product launch of re:Invent 2021.

#### Quirky

Experience Amazon's unique culture at one (or more!) of our Quirky events. Whether it's board games, bingo, or a sneak peek of one of your favorite Amazon TV shows, we've got something for everyone.

#### re:Play party

For our 10th annual re:Play party, we have an amazing lineup, featuring all the classic re:Play activities like dodgeball and office chair grand prix, and we have a very special musical headliner. Stay tuned for more information!

#### **Restaurant Receptions**

Join the conversation at our vibrant restaurant receptions. Meet people from across the tech world and connect on topics of interest to you at a range of wonderful venues.



## Reserved seating

Book your spot at your favorite sessions at re:Invent in Las Vegas.

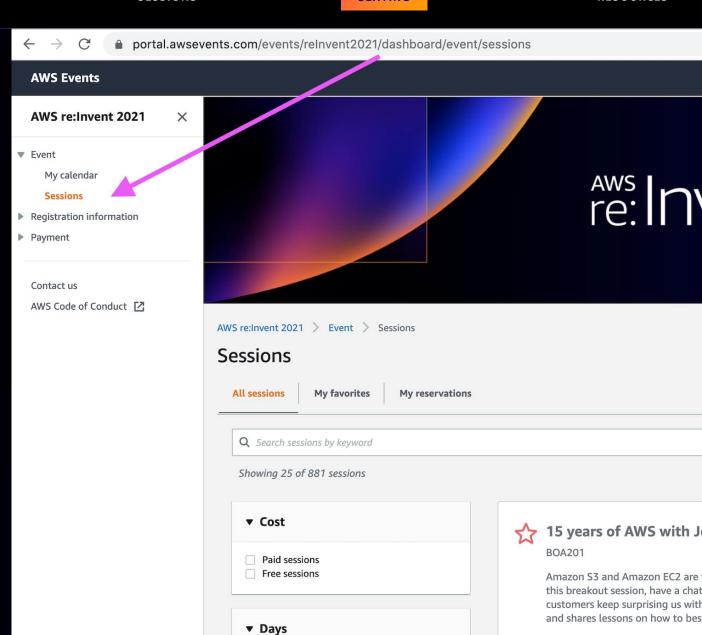


Session type: Breakout Session
Topics: BuildOn.AWS

#### RESERVED SEATING WALKTHROUGH

## Navigate to the session catalog

After logging into the EMP, click on the side nav and click "Sessions"



Monday



▼ Session type

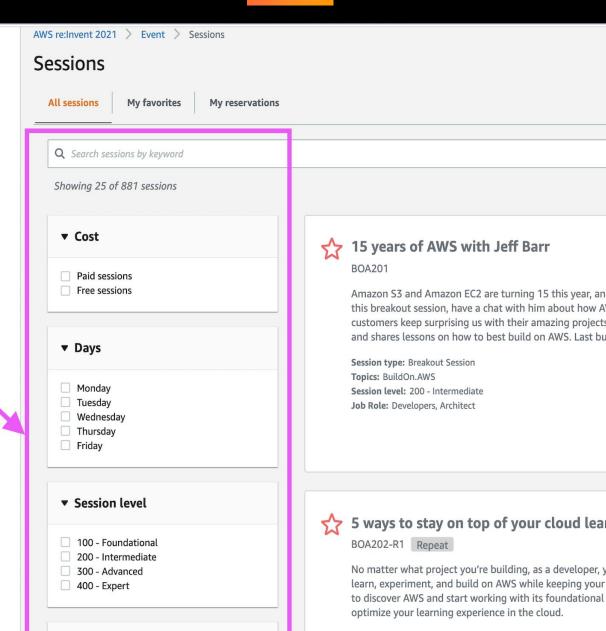
Session type: Chalk Talk

Topics: BuildOn.AWS

#### RESERVED SEATING WALKTHROUGH

## **Using catalog filters**

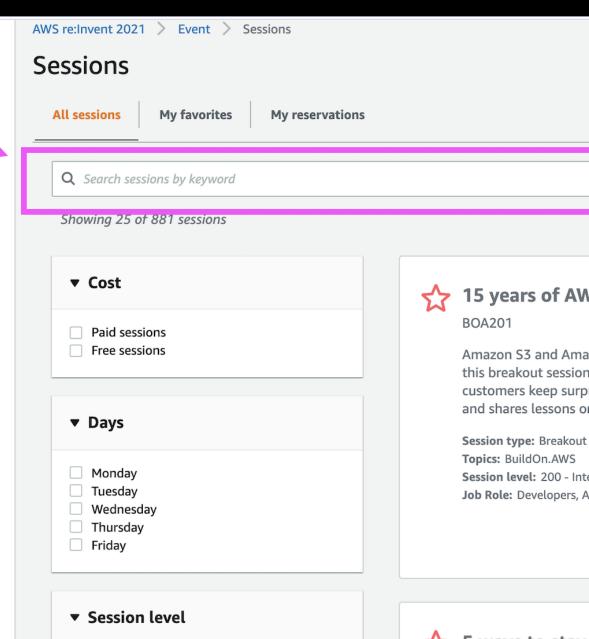
When viewing the session catalog, there is a set of filters available on the left-hand sidebar of the sessions catalog that shows a variety of filters you can use while browsing. Filters include: price, day of week, difficulty level, session type, topic, AWS service, industry





## **Using catalog search**

At the top of the session catalog there is a search bar where you can enter free form text to search the full catalog. The search box searches through all of the displayed text fields of a session including Session ID, title, abstract, level.

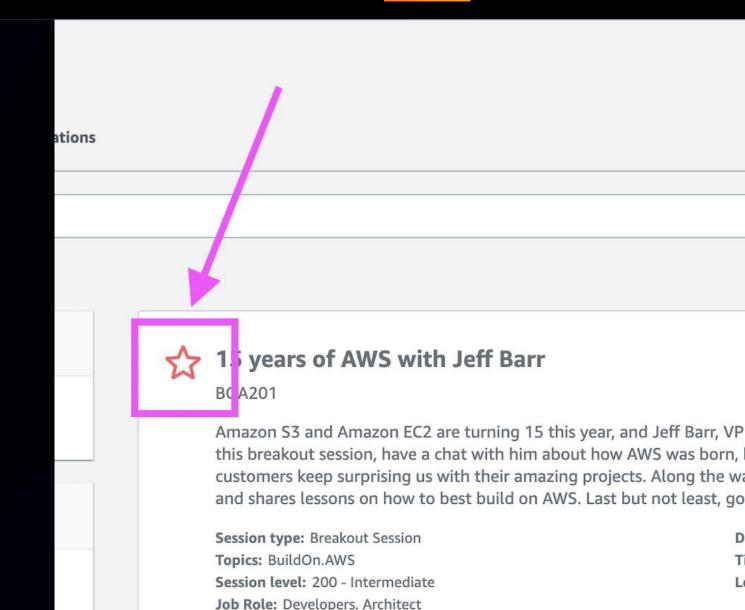


PLAY

#### RESERVED SEATING WALKTHROUGH

## Favoriting and un-favoriting a session

When viewing the session catalog, any session shown in the results has a star icon on it. Clicking that star will mark it as a favorite. To un-favorite, simply click the star again.





## Reserving a session

For events with reserved seating, when a session has available seats, the button on the session card will say "Reserve seat".

For sessions with a price greater than zero, the button will say "Purchase for <pri>price>". Clicking purchase will open up the purchase form where you can complete your transaction. Once the transaction is complete, that session will show on your reservations list.



#### A practical guide to building an industrial data lake on AWS

#### MFG301

Analyzing the massive quantities and types of data generated in an industrial setting can enable effective into production optimization opportunities. An industrial data lake is foundational to help manage and st insights for their factory digital transformation efforts. This chalk talk walks through the steps to building industrial customer.

Session type: Chalk Talk
Topics: Manufacturing
Session level: 300 - Advanced

Reserve a seat

Da Tir

Loca

Date

Time

Loca



#### AWS Cloud Technical Essentials (option 1)

TNC101-R2 Repeat

This bootcamp introduces you to essential AWS services and common solutions. The bootcamp covers fur security. It also explores concepts that increase your understanding of AWS services, so you can make more apply highly available, fault-tolerant, scalable, and cost-effective cloud solutions.

Session type: Bootcamp

Topics: Training and Certification

Session level: 100 - Beginner

Buy for \$1.00



## Waitlisting a session

When a session has no seats available, because the capacity has already been met, then the button will say "Join waitlist". If you join a waitlist to a session, and a seat becomes available in that session, you may automatically be placed in that session and we will notify you via email.



#### 15 years of AWS with Jeff Barr

BOA201

Amazon S3 and Amazon EC2 are turning 15 this year, and Jeff Barr, VP and Chief Evangelist at AWS, has born, how the developer experience has evolved over the years, and how customers keep surprising us community and shares lessons on how to best build on AWS. Last but not least, go back in time as Jeff

Session type: Breakout Session

Topics: None

Session level: 200 - Intermediate

Join waitlist



# Viewing your favorites, reservations, and waitlisted sessions

Along the top of the catalog page, there are 3 tabs: 1) all sessions, 2) favorites, 3) my reservations. Clicking on favorites will show you a list of only sessions you have favorited. Clicking on My Reservations will show you a list of items you have reserved or waitlisted.

AWS re:Invent 2021 > Event > Sessions

### Sessions

All sessions

My favorites

My reservations

Q Search sessions by keyword

Showing 25 of 881 sessions





## Cancelling a reservation or waitlist

When viewing a session, in any tab, if you have reserved or waitlisted, you can cancel that action by simply clicking the button again. It will show a drop down that says "cancel reservation" or "cancel waitlist."



#### Automating content moderation to improve digital safety

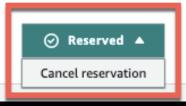
#### AIM307

The volume of user-generated content and third-party content has been exploding in social media, onli end users, companies need to find a way to review audio, image, video, and text content at scale for pot content. This chalk talk provides hands-on experience to implement a multimodal AI content moderation speech (Amazon Transcribe), and text (Amazon Comprehend).

Session type: Chalk Talk

Topics: Artificial Intelligence and Machine Learning

Session level: 300 - Advanced



#### BOA201

Amazon S3 and Amazon EC2 are turning 15 this year, and Jeff Barr, VP and Chief Evang born, how the developer experience has evolved over the years, and how customers kecommunity and shares lessons on how to best build on AWS. Last but not least, go bac

Session type: Breakout Session

Topics: None

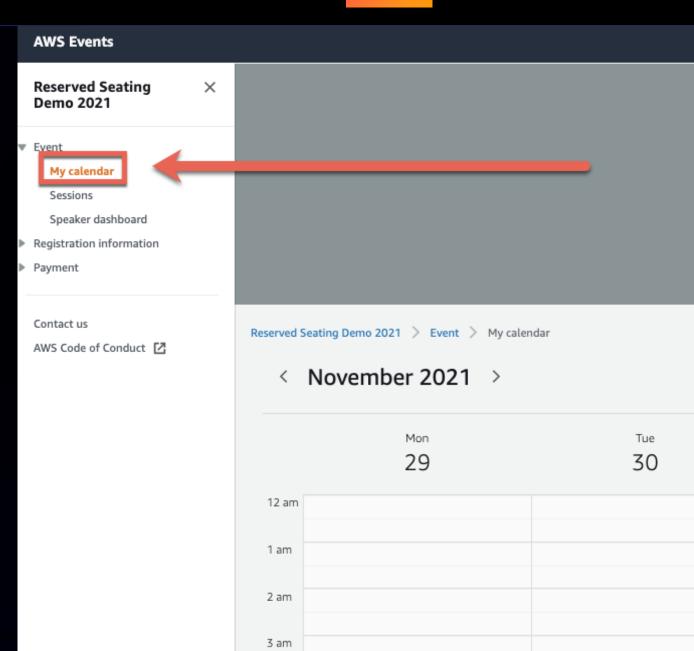
Session level: 200 - Intermediate





## Viewing your calendar

In the main navbar on the left of the app, you will see a link that says "my calendar."



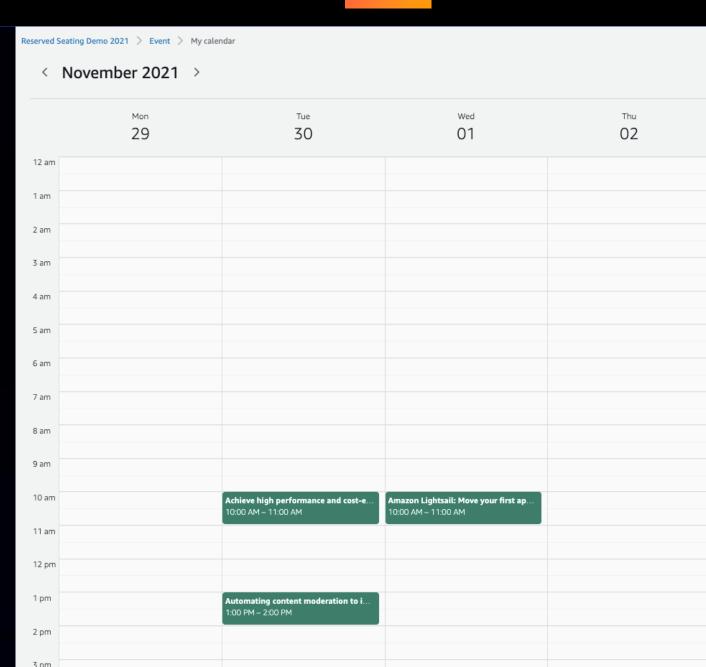


OVERVIEW

#### RESERVED SEATING WALKTHROUGH

## Viewing your calendar

If you navigate to the calendar, you will see all of your favorites, reserved seats, and waitlisted seats shown on the corresponding days that those sessions are scheduled.



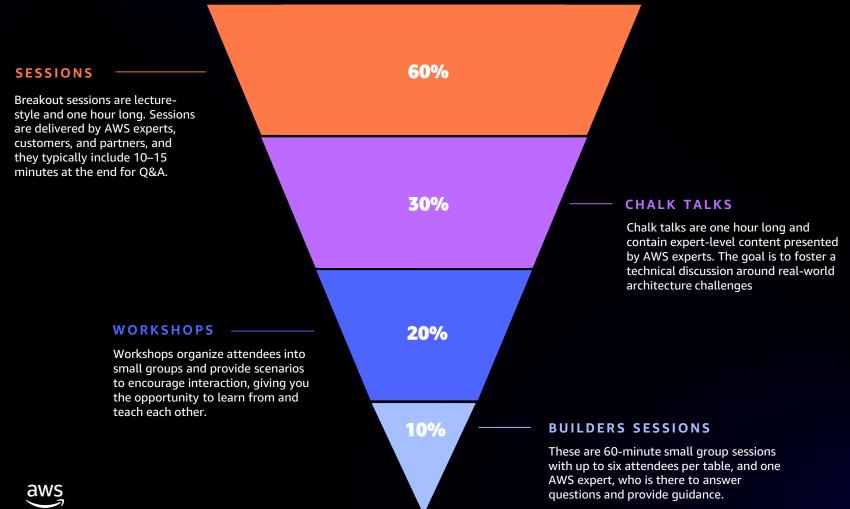


## Make a plan

Prepare for your time onsite in Las Vegas and make a plan to get the most out of re:Invent.



### **Building your agenda**





Breakout sessions should make up the bulk of your plan. You can find customers directly speaking about their real world experiences of using AWS products and services in sessions!

OVERVIEW

## **Building your agenda**

### PRO TIPS:

- Make sure to watch the Leadership sessions that are most relevant to your areas of interest to get the most strategic updates.
- Be sure to not miss out on all the Keynotes, as that's where you'll catch the biggest AWS launches.
- re:Invent always tries to feature as many customers directly speaking about their real-world experiences of using AWS products and services. You'll find them in many breakout sessions, as well as keynotes.
- Think about topics that are currently mission critical to your team, and topics you're interested in learning more about.
- Breakout sessions will be available to watch virtually, even if you are registered for in-person re:Invent.
- Make an extensive list of sessions to watch! Favorite lots of sessions so when reserved seating goes live, you have lots of options.



### Got free time on your schedule?

There are many learning opportunities across the re:Invent campus in Las Vegas that require no reservation. Drop by the Expo, visit a content hub, or practice your craft in one of our labs.



#### Expo

Learn from AWS experts and partners. The Expo at the Venetian will be host to AWS Village, AWS Partner Network, AWS Marketplace, Builders' Fair, Developer Lounge, a demo theater, Jam Lounge, Startup Central, and sponsor booths. Come by and see all that the Expo has to offer!



#### **Content hubs**

Breakout session repeats will take place all week in all re:Invent venues, along with overflow sessions in our Content Hubs (centralized overflow rooms in every venue). We will also stream live content to the Content Hubs as the sessions fill up.



#### Labs

Practice your craft in a live AWS sandbox environment. Try any of our 100+ self-paced labs on your own, or reserve time with an AWS expert who can coach and guide you. Whether you're just starting out or honing your technical skills, learn by doing with labs.



OVERVIEW

### Your re:Invent Checklist

- Register for re:Invent / Book your hotel / Book your travel reservations / Upload your badge photo
- ☐ If attending in-person, review the <u>health measures</u> in place for this year's re:Invent
- ☐ Visit the <u>re:Invent website</u> to stay up-to-date on announcements
- Add all five <u>Keynotes</u> to your agenda **Pro Tip:** This is where you'll catch the biggest AWS launches
- ☐ Add your favorite Leadership sessions to your agenda
- Get ready for reserved seating: favorite the learning sessions of interest to you
- Familiarize yourself with sponsors in the **Expo**, along with the Expo map
- If you're attending with a team, connect with your colleagues to plan how to conquer the many hours of content **Pro Tip:** Don't forget to find time to reconvene with your team and debrief on everyone's learnings.
- ☐ Check out the <u>Play</u> activities and add them to your agenda
- Watch all the <u>How to re:Invent</u> to prepare for the week
- ☐ Follow Amazon Web Services on Instagram, Facebook, LinkedIn, and Twitter



## Contacts & resources

Looking for more guidance on organizing your time at re:Invent?



## **Contact the Team**

## AWS Financial Services executive and regional business development leaders

If you'd like to arrange a meeting with **AWS subject matter experts**, please reach out to your account teams to coordinate. You can click on the photos to access team member LinkedIn profiles.



Frank Fallon Vice President, Head of Worldwide Financial Services



Scott Mullins
Director, Head of Worldwide Financial
Services Business & Market Development



**Lynne Zeldenryk**Head of Financial Services Business & Market Development for EMEA



Steve Schick Head of Financial Services Business & Market Development for North America



Laurence Thiery Head of Financial Services Business & Market Development for Asia



**Tetsuo Iida** Head of Financial Services Business & Market Development for Japan



Fernando Corbi Head of Financial Services Business & Market Development for LATAM



## **Contact the Team**

## **AWS Financial Services market** segment and strategic program leaders

If you'd like to arrange a meeting with **AWS subject matter experts**, please reach out to your account teams to coordinate. You can click on the photos to access team member LinkedIn profiles.



**Scott Mullins**Director, Head of Worldwide Financial
Services Business & Market Development



John Kain Head of Business & Market Development for Banking & Capital Markets



Tony Jacob Head of Business & Market Development for Insurance



Mark Smith Head of Business & Market Development for Payments



**Jeff (Axe) Axelrad** Head of Financial Services Compliance



**Lynne Zeldenryk** Head of Financial Services Digital Innovation



Adam Honore Head of Financial Services Service Development



## **Contact the Team**

#### **AWS Financial Services partner leaders**

If you'd like to arrange a meeting with AWS subject matter experts, please reach out to your account teams to coordinate. You can click on the photos to access team member LinkedIn profiles.



Melissa Dougherty Director Partner Success, Global Financial Services



**Charlie Sanderson** Global Alliances, FSI ISVs



Ryan Thomas
Worldwide Lead, Financial Services
Consulting Partners



Peter Williams Head of Partner Technology, Global Financial Services



**Vishal Arora** Consulting Partner Lead - Americas



Addy Dubhashi EMEA Partner Practice Lead



### Useful resources

#### **How to re:Invent**

Everything you need to know about how to re:Invent. Insider tips, planning advice, and interviews with re:Invent experts. Stay tuned for more episodes on the road to re:Invent!

How to re:Invent

#### **Health measures**

The health and safety of our customers, partners, and employees remains our top priority. Review our updated COVID-19 vaccination requirements for attending re:Invent in Las Vegas.

**Health** measures

#### **FAQs**

Get all the info you need on topics such as health and safety, registration, accessibility, and much more.

**FAQs** 



# Thank you!

