re:Invent

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

Security Attendee Guide 2021

Welcome!

I'm Mark. A long-time builder in the cloud with a focus on security and privacy.

Every year, AWS re:Invent is chock full of amazing sessions and events that help us learn and connect with the community.

I've created this guide to call out some great sessions that will help you become a more well-rounded security professional.

You'll find a lot of sessions that you might not think are related to security. Trust me, they are!

Modern security requires an integrated approach. It's a core part of everything we build in the cloud.

This guide is designed to help round out your perspective and learn about the great features and functionality available to you in the AWS Cloud.

Mark Nunnikhoven (@marknca)
Distinguished Cloud Strategist at Lacework



Breakout sessions



Security isn't an isolated activity. It's a fundamental part of everything we do in the AWS Cloud.

That's why it's one of the five pillars of the AWS Well-Architected Framework.

This selection of sessions will provide you a well-rounded view of building and security in the cloud so you can make sure you and your team meet your security goals.

DOP208

DevOps revolution

Security doesn't happen in a vacuum. In order to make informed decisions about risk and security controls, you have to understand how solutions are built and operated.

This session will provide an overview of the latest approaches teams are taking to deliver on the AWS Cloud.

Understanding these techniques and what's next is critical to building a strong security posture.

DOP313

Best practices for securing your software delivery lifecycle

Delivering new builds quickly and reliability is a critical aspect of practicing a DevOps philosophy. That workflow also presents some unique security challenges. This session will help you understand that you don't need to compromise speed for security.



COP201

Gain enterprise visibility with AWS Cloud operation dashboards

Tied to ARC203, this session shows how you can leverage the visibility created by a strong operations practice to improve visibility.

This session focuses on real-world applications of the core principles and includes a customer case study to help you better understand the impact building this type of tooling will have on your teams.

Visibility is a recurring theme throughout this guide as a simple truth always holds true: you can't help improve the security of things you don't know about.

COP206

Observability the open-source way

Creating a system for observability and to gather telemetry is key to gaining visibility about the security and operational health of your solutions.

AWS offers managed versions of several popular open-source tools to streamline this aspect of your practice.

This session explores those offers and how you can use them to gain observability and take advantage of its benefits, without adding more systems that require operational effort.

COP301

Cloud compliance, assurance, and auditing

Compliance is often ignored until the last minute. In reality, compliance plays an important role in trust.

And like the rest of security, when you build with compliance in mind, it becomes a lot easier to meet your goals.

This session explores how compliance requirements can be met in the cloud and how you can build a continuous compliance output as part of your everyday builds.



DOP301

How to reuse patterns when developing infrastructure as code

Infrastructure as Code (IaC) is an incredibly useful tool for repeatable builds. Understanding how the AWS CDK and AWS CloudFormation can help your teams not only use IaC but also Security as Code (SaC) is always a smart move.

BOA306

Twelve-Factor apps on containers, running everywhere

Containers solve a very real problem for builders: ensuring that what you've built will run reliably anywhere. This session will teach you how to build and secure container-based applications that balance security, scalability, and developer experience.

DOP310

Enabling decentralized development teams with a shared services platform

The balance between centralized services and distributed teams is a tricky one. This session will help you plan "the crawl, walk, and run options" for smart, centralized services.

COP312

Governance and security for organizations of any size

AWS provides some very powerful tools to help you organize all of your teams' accounts. This session will help you better understand how these tools fit to together and how they can help you stay on top of your AWS environment.



Interactive sessions



Other recommendations



Security Jams and GameDays

GMD302

AWS GameDay—Secure Legends

GameDay's mission is for customers to learn interactively and have fun in a risk-free environment. Join us to test and grow your AWS skills under light competition and gamification.

AWS GameDays are collaborative learning exercises that test your skills as you implement AWS solutions to solve real-world problems in a gamified, risk-free environment. They're a completely hands-on opportunity for technical professionals to explore AWS services, architecture patterns, best practices, and group cooperation. This GameDay focuses on security scenarios such as ransomware demands and other breaches and introduces participants to forensics that they can use to prevent and remediate events. Attendees experience a simulated environment containing common vulnerabilities that they secure using AWS services like AWS Identity and Access Management, AWS Network Firewall, AWS Backup, AWS Systems Manager, and more.

HJS301-R1

AWS Security Jam

In addition to all the amazing breakout sessions at re:Invent, the AWS Security Jam will allow you to actually use those AWS and Partner solutions that you have heard about to solve real-world scenarios in a fun and competitive event.

New to AWS? New to security? Or an expert in both? This jam provides incident-response scenarios where you can learn new skills and practice current ones against a set of simulated security incidents. Can you identify what caused the issues? What would you do differently? How would you architect multiple AWS services to prevent it from happening again? Activities are structured to accommodate AWS users of all levels. AWS experts and guided exercises can help ramp up your security knowledge. A laptop is required to participate.



PLAY

LEARN

AWS re:Invent is always a fantastic event. There are any number of activities throughout the week to enjoy. From re:Play to the game nights, you're sure to find something you like. Here are my suggestions.

EXTRA SESSIONS

- Session BOA201 is "15 years of AWS with Jeff Barr." This will cover where things started, key moments, and a demo from Jeff of AWS as it was in 2007!
- Workshop DPR201 is focused on helping you get up and running with AWS DeepRacer. Racing robot cars is so much fun and a great way to connect with other builders.

PLAY

• Keep an eye on the Play section of the AWS re:Invent website, specifically the Quirky activities. There are a ton of great events where you can meet builders and socialize after a long day of learning. Make sure to catch the sneak peek of your favorite upcoming Amazon TV shows!



Keynotes





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.





Dr. Werner Vogels Keynote

Dr. Werner Vogels is Chief Technology Officer at Amazon.com, where he is responsible for driving the company's customer-centric technology vision. As one of the forces behind Amazon's approach to cloud computing, he is passionate about helping young businesses reach global scale and transforming enterprises into fastmoving digital organizations. Vogels joined Amazon in 2004 from Cornell University, where he was a distributed systems researcher.



Peter DeSantis Keynote

Peter DeSantis is the Senior Vice President of AWS Global Infrastructure and Customer Support. In this role, he leads the AWS teams responsible for designing the data centers, servers, and network that underpin our AWS services and for deploying and operating this infrastructure worldwide as well as for the customer-facing organizations providing support for our AWS products.

Live stream sponsored by:





Machine Learning Keynote

Swami Siyasubramanian is Vice President at AWS in charge of all Amazon AI and machine learning services. His team's mission is "to put machine learning capabilities in the hands of every developer and data scientist." Swami and the AWS AI and ML organization work on all aspects of machine learning, from ML frameworks (TensorFlow, Apache MXNet, and PyTorch) and infrastructure, to Amazon SageMaker (an end-to-end service for building, training, and deploying ML models in the cloud and at the edge), and finally AI services that make it easier for app developers to incorporate ML into their apps with no ML experience required.



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.

Live stream sponsored by:







PLAY

All of the leadership sessions provide great insights into the state of any practice within the AWS Cloud.

These two are of particular interest to security-minded builders. The first for obvious reasons, the second—containers—because we are seeing fantastic adoption of this technology that will only accelerate in the year to come.

SEC219-L

Continuous security improvement: Strategies and tactics

Every year Stephen Schmidt delivers a fantastic leadership session that highlights what's changed in the past year and introduces new functionality that's coming.

More importantly, this session always highlights the state of security within the AWS community. What issues are teams focusing on? What challenges are organizations facing?

This is always a don't-miss session.

Stephen Schmidt, VP and CISO

CON209-L

Containers on AWS: Everywhere and anywhere

Most organizations are seeing an explosion of containers within their environment . . . and why not? It's a convenient way for developers to build and for operations to manage your environments.

This leadership session will help you understand what advancements have been made in the last year and what we can expect for the year to come.

Deepak Singh, VP Compute Services







All Builders Welcome

LaDavia Drane

Director, Inclusion, Diversity & Equity



AWS Executive Panel

Francessca Vasquez

Vice President, Technology



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



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



Containers

Deepak Singh

Vice President, Compute Services



Databases

Jeff Carter

Vice President, Relational Databases



Developer

Ken Exner

Director, AWS Developer Tools

Live stream sponsored by:





Edge

Bill Vass

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



Enterprise and Migration

Todd Weatherby

Vice President, Professional Services



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

Live stream sponsored by:





Serverless

David Richardson

Vice President, Serverless



Training & Certification

Maureen Lonergan

Director of AWS Training and Certification

Learn



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.



PLAY

Choose the learning methods that work for you









Training and Certification

Learn directly from AWS experts and get practical experience with real-world cloud scenarios. Skill up fast with a bootcamp, show your expertise by earning an AWS Certification, and practice your craft with one of our labs.

AWS DeepRacer

Developers of all skill levels can compete in virtual races during re:Invent for a chance to win prizes and glory! Tune in to AWS DeepRacer TV throughout re:Invent to catch the championship action.

Jams and GameDays

Test your skills in implementing AWS solutions by solving real-world problems in a gamified, risk-free environment. Take part in collaborative and interactive learning exercises—and win prizes!

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.



Play



PLAY

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



PLAY

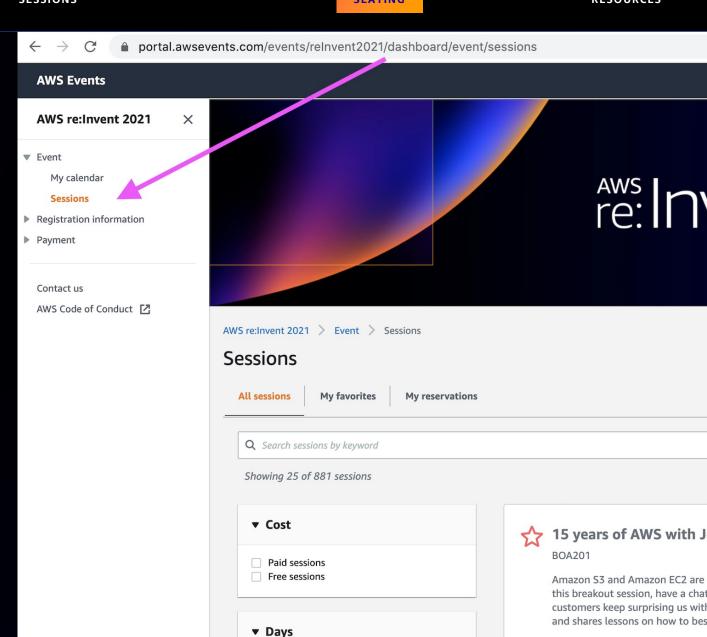
Monday

Session type: Breakout Session
Topics: BuildOn.AWS

RESERVED SEATING WALKTHROUGH

Navigate to the session catalog

After logging in to the event portal, click on the side nav and click "Sessions".





▼ Session type

PLAY

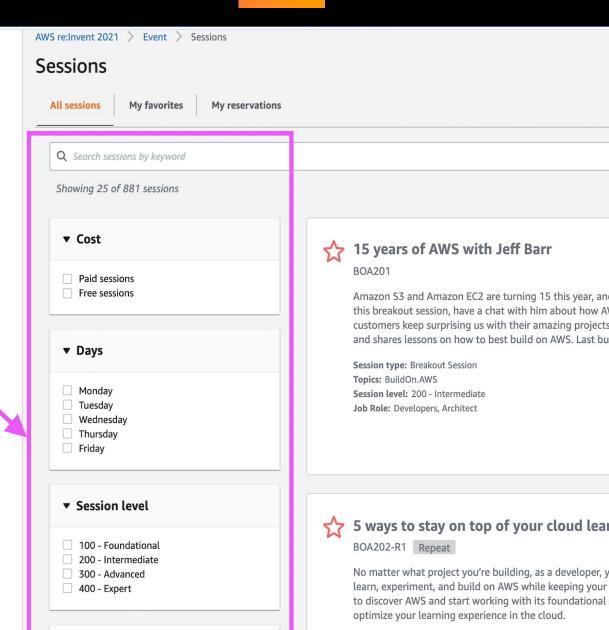
Session type: Chalk Talk

Topics: BuildOn.AWS

RESERVED SEATING WALKTHROUGH

Using catalog filters

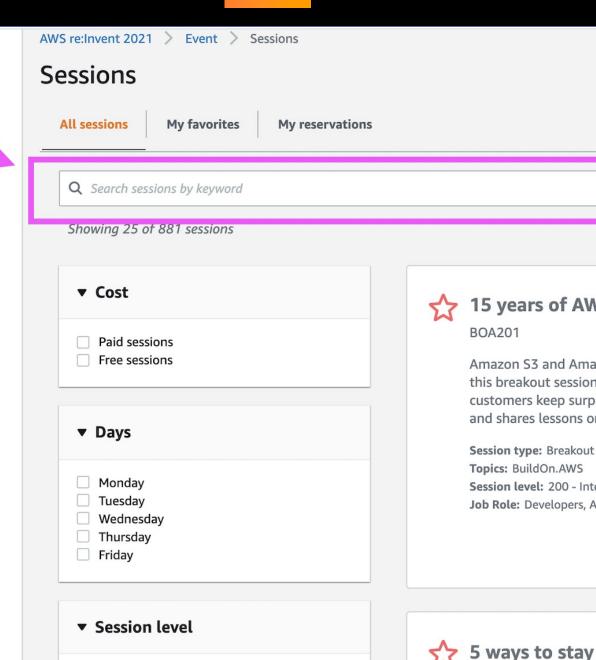
When viewing the session catalog, there is a set of filters available on the left sidebar of the sessions catalog that shows a variety of filters you can use while browsing. Filters include: price, day of the week, difficulty level, session type, topic, AWS service, and industry.





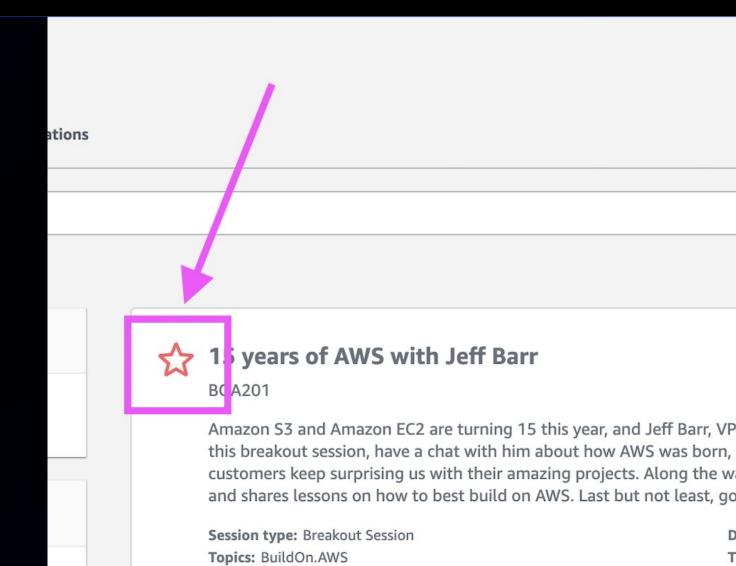
Using catalog search

At the top of the session catalog, there is a search bar where you can enter freeform 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, and level.



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 it, simply click the star again.



Session level: 200 - Intermediate

Job Role: Developers, Architect



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 "Buy 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:

Loca

Date

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



PLAY

RESERVED SEATING WALKTHROUGH

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 for 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) My favorites, and 3) My reservations. Clicking on "My 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 dropdown that says "Cancel reservation" or "Leave waitlist".



Automating content moderation to improve digital safety

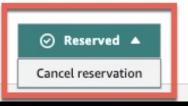
AIM307

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 kee community and shares lessons on how to best build on AWS. Last but not least, go back

Session type: Breakout Session

Topics: None

Session level: 200 - Intermediate



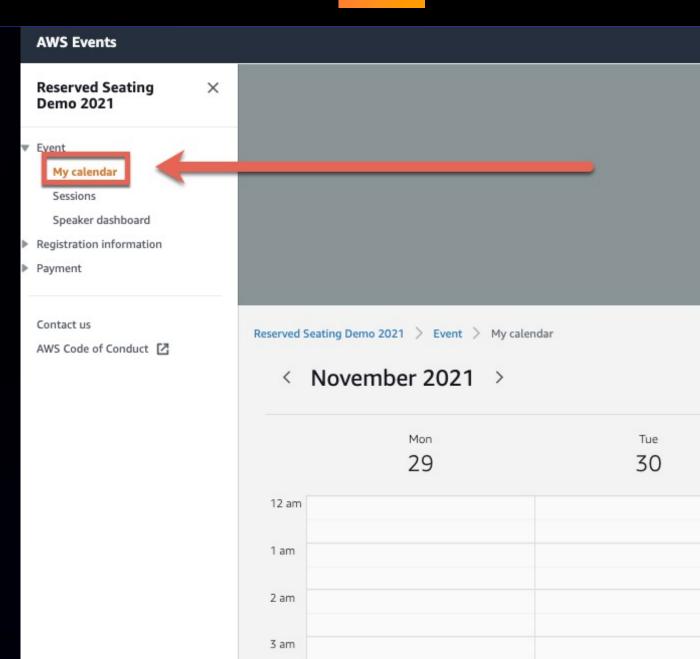


PLAY

RESERVED SEATING WALKTHROUGH

Viewing your calendar

In the main navbar on the left of the session catalog, you will see a link that says "My calendar".



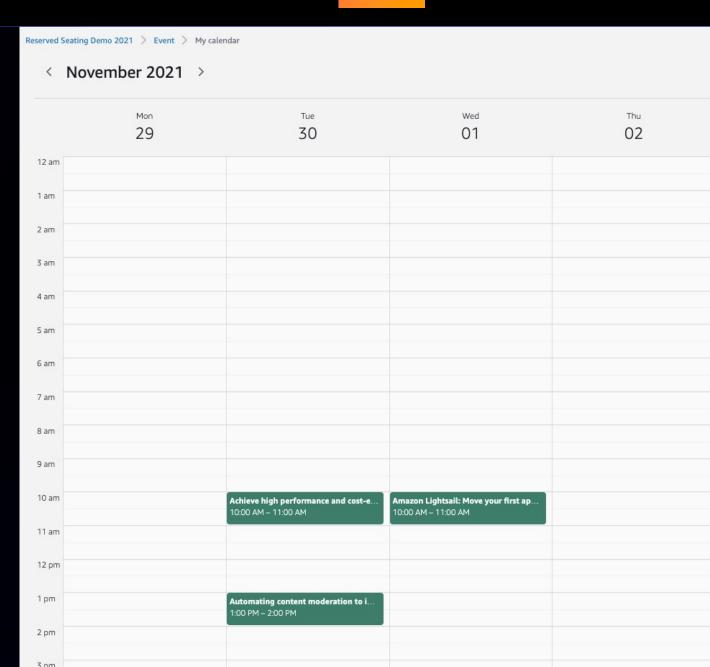


PLAY

RESERVED SEATING WALKTHROUGH

Viewing your calendar

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

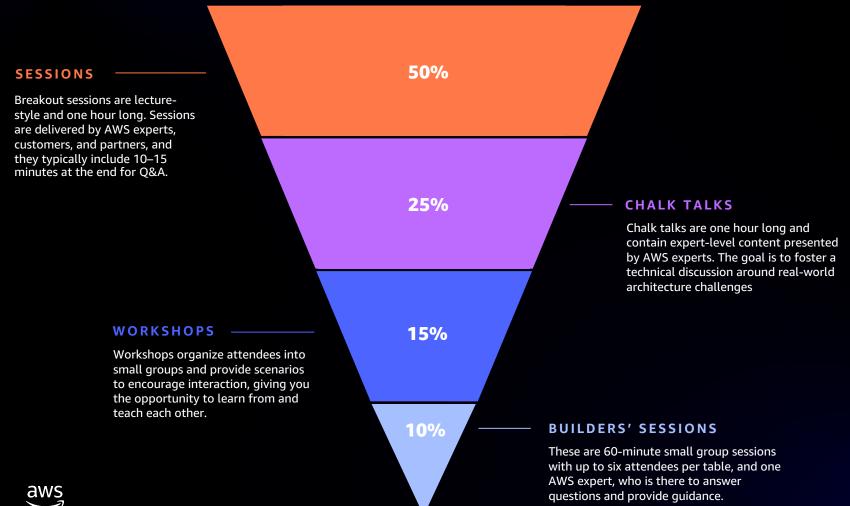




Make a plan



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!

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 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.



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> videos to prepare for the week
- ☐ Follow Amazon Web Services on Instagram, Facebook, LinkedIn, and Twitter



Useful resources



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!

