



# Attendee Guide

**AWS Aerospace & Satellite**

# Welcome!

I'm excited to invite you to the Amazon Web Services (AWS) Summit Washington, DC!

I'm passionate about bringing together the cloud and space to unlock solutions that will transform the future of the aerospace industry.

Join us to learn why more and more customers use AWS and the AWS partner ecosystem to make decisions faster, accelerate innovation, and re-imagine space system design, launch, and operation.

Whether you are just getting started with the cloud or you are an advanced user, the DC Summit gives you the opportunity to get inspired, build, and realize mission success with AWS.

My team and I look forward to seeing you there.

To the stars ... through the cloud – from Washington, DC!

**Clint Crosier**, Major General, US Air Force/Space Force (retired)  
**Director, Aerospace & Satellite, AWS**

**REGISTER NOW!**



**AWS Summit  
Washington, DC  
June 7- 8, 2023  
Walter E. Washington  
Convention Center**

# Event overview

AWS Summits are comprehensive cloud technology events hosted by AWS. They are a free opportunity to learn about AWS, network with peers, and sharpen your skills. Our vibrant, inspiring cloud community can't wait to meet you.

## What to expect

Discover how public sector customers are adapting to change and challenges and constructing innovative solutions in the cloud. Learn what it takes to drive culture change, digital transformation, and infrastructure modernization.

## Who should attend

All levels of cloud expertise are welcome. Whether you're just getting started or you're an experienced cloud user, you'll learn key concepts that can be applied right away in your organization.

[EVENT AGENDA](#)

# Agenda overview

Join the keynote, visit the Expo, and choose from over 220 breakout and interactive sessions. Come to connect, collaborate, and dive deep into cloud computing technology.

June 6	Early badge pick up: 12:00pm – 7:00pm ET
June 7	Registration & Expo open: 8:00am – 6:00pm ET Keynote: 11:00am – 12:15pm ET Sessions: 9:00am – 5:15pm ET Networking reception: 5:00pm – 6:00pm ET
June 8	Registration open: 8:00am – 5:00pm ET Expo open: 8:00am – 3:00pm ET Sessions: 8:00am – 5:00pm ET





# Keynote

Join Max Peterson, vice president of AWS worldwide public sector (WWPS), to learn how customers are using the power of AWS to accelerate their digital transformations and deliver mission-critical outcomes. Hear about how organizations are unlocking new opportunities with the cloud and discover the latest advancements that can help you move faster, increase security, and keep costs low. Featured customer speakers will share how they're leveraging AWS to get the agility and resilience needed to keep pushing boundaries and drive further innovation.



# Breakout content

Covering 40 different topics across 220 sessions, AWS Summit Washington, DC is your opportunity to catch up on the latest technologies in cloud computing. Choose the learning methods that work best for you, from interactive chalk talks to lecture-style breakouts.

Sessions are available from foundational (100) through expert (400) levels. You can grow your skills no matter where you are in your knowledge or career. Browse the session catalog for an in-depth view of everything offered.



[SESSION CATALOG](#)

# Session types



## BREAKOUT SESSIONS

60-minute lecture-style presentations covering a broad range of topics for various skill levels delivered by AWS experts, builders, customers, sponsors, and partners. Breakout sessions typically include a Q&A session at the end of the presentation.



## CUSTOMER LIGHTNING TALKS

30-minute presentations where attendees hear directly from AWS customers about their cloud journeys. Attendees can discover how customers are innovating, expediting, and scaling real-world solutions.



## CHALK TALKS

60-minute highly interactive experience intended to foster a technical discussion about real-world architecture challenges. Chalk talks begin with a short lecture delivered by an AWS expert, followed by whiteboarding and a Q&A session.



## WORKSHOPS

120-minute interactive sessions where attendees work in small groups to build a solution to a problem using AWS products and services. Each workshop starts with a short lecture by the speaker, and there are additional AWS experts in the room to make sure every group gets the assistance they need. Attendees must bring their laptops to participate.



# Session types



## BUILDERS' SESSIONS

60-minute interactive, small-group sessions led by an AWS expert who guides attendees as they learn how to build with a product or service on AWS. The session begins with a short explanation of the intended task, and then attendees experiment and build. Attendees must bring their laptops to participate.



## LABS

60-minute hands-on learning experiences designed to use the AWS Labs platform and lab experience products for self-paced digital training and instructor-led training.



## DEEPRACER WORKSHOPS

90-minute interactive sessions using AWS DeepRacer to learn the basics of reinforcement learning (an advanced machine learning technique). Attendees must bring their laptops to participate. Ready to put your device to the test? The fastest developer at DC Summit will earn the opportunity to advance to participate in the AWS DeepRacer League Championships at AWS re:Invent 2023.



## GAMEDAY

120-minute collaborative gamified learning sessions that test skills in implementing AWS solutions to solve real-world problems in a gamified, risk-free environment. This is a completely hands-on opportunity for technical professionals to explore AWS services, architecture patterns, best practices, and group cooperation under minimal guidance. Attendees must bring their laptops to participate.



# Session recommendations – Main Summit Track

We've curated recommendations specifically for aerospace and satellite customers so you can take a deeper dive into advanced capabilities like:

- Domain migration
- Digital twin simulation for spacecraft modeling
- Edge compute at the rugged space edge
- Using geospatial ML models for faster responses
- High-performance compute for advanced aircraft
- Virtualized ground segments

## AES205

**Using the cloud with AWS to help power the journey to Mach-5**

Hermeus is collaborating with the US Air Force and NASA to develop their hypersonic vehicle. Hermeus uses AWS HPC for faster design, simulation, modeling, and testing of their hypersonic engine and aircraft. To capture data from flight tests in remote locations, Hermeus leverages Amazon Snowball to collect, process, and analyze data outputs, and run computational analysis to iterate tests and propose new engineering and design decisions.

**Nandu Shah, VP, Information Systems, Hermeus**

## AES206

**Leveraging cloud-powered AI for faster mapping & natural disaster responses**

Sifting through huge data sets to find the most relevant information challenges traditional data downlink, storage, processing, and analytics systems. Learn how to quickly deliver precise results by using AI and ML combined with cloud compute power and scale so you can respond to natural disasters in minutes, simultaneously monitor multiple strategic sites, and track illegal maritime activities.

**Arnaud Guérin, CEO & Co-founder, Preligens**

# June 8: Industry Day – Aerospace & Satellite

REIMAGINE YOUR SPACE BUSINESSES AND MISSIONS WITH AWS

**June 8 | Room 146C | Walter E Washington Convention Center**

- 8:00 am to 12:00 pm
- A half-day agenda focused on supporting space industry use cases
- Join to learn, network with cloud and space experts, and advance your missions
- Walk away with tangible next steps to advance your organization's cloud journey

## **Agenda**

- 8:00 – 8:20: *Industry Overview*
- 8:20 – 9:10: *Demystifying Security and Compliance of Data from Space*
- 9:20 – 10:00: *How AI and Rapid-Revisit Shapes the Intelligence Professional's New World*
- 10:10 – 10:50: *Lessons Learned From Intelsat's Successful Domain Migration*
- 11:00 – 11:50: *Cloud-native Digital Twins for Aerospace & Spacecraft Modeling*



# Session recommendations – A&S Industry Track

## AES201-IND

### Demystifying Security and Compliance of Data from Space

Data security and compliance has seen increased attention across the aerospace and satellite industry. AWS has developed best practices to set up the proper mechanisms to identify, protect, detect, respond, and recover at the AWS layer. In this session, explore best practices for securing your AWS environment and hear from a panel of AWS partners offering relevant tools and services for aerospace and satellite systems.

**Rebecca Meads, Lead Security Solutions Architect, AWS Aerospace & Satellite**  
**Chris Radosh, SVP, Federal, Trend Micro**  
**Hansang Bae, CTO, Public Sector, Zscaler**  
**Josh Dirsmith, VP Public Sector, Effectual**

## AES202-IND

### How AI and Rapid-Revisit Shapes the Intelligence Professional's New World

Explore how AI helps intelligence professionals derive insights at scale from more than 16,000 images collected over a single year to simultaneously track activity at commercial and military airfields worldwide. Learn how to unlock insights previously unobtainable from space-based remote sensing systems, anticipate shifts in adversary strategy, and accelerate the timeline between collecting data and generating intelligence. See how high-cadence GEOINT increases transparency, accountability, and security in an age of increasing global uncertainty.

**Patrick O'Neil, Chief Innovation Officer, Blacksky**

## AES203-IND

### Lessons Learned From Intelsat's Successful Domain Migration

The session explores the domain migration following Intelsat's acquisition of GoGo. Explore the careful planning and execution for the domain migration, technical details of the migration project, the final cutover, and how they are successful in running production workloads on AWS to help with seamless internet connectivity on planes around the US.

**Chris Szorc, Director, IT, Intelsat**  
**Peggy Shumway, VP, Software/IT, Intelsat**



# Session recommendations – A&S Industry Track

## AES204-IND

### Cloud Native Digital Twins for Aerospace and Spacecraft Modeling

Sedaro uses AWS to power digital twins simulations to make spacecraft safer and build space vehicles faster at lower cost. By taking a cloud native approach, Sedaro helps operators create complicated simulation outputs and deliver real-time business insights. Because their simulation technology runs on scalable EC2 instances and clusters, Sedaro can add complexity to simulations and millions of simulations in parallel at lower costs than traditional on-premises software

**Robbie Robertson, CEO & Co-founder, Sedaro**

## WWPS Partner Forum

Naomi Kurahura, CEO and Co-founder of Infostellar, will make a special 10-minute presentation during the Partner Forum session. Jeff Kratz, VP, AWS Worldwide Public Sector Partners, will lead the session which focuses on "The Power of Precision" and takes place on June 8.

Infostellar is a Tokyo-based Ground Station as a Service provider and has collaborated with AWS to make AWS Ground Station available within Infostellar's StellarStation. The combination gives satellite operators more opportunities to communicate with their space workloads, downlink geospatial data faster and easier, and decrease the time it takes to get data to decision makers on Earth. Infostellar also plans to leverage AWS to help reduce the time it takes to scale successful operations across a global ground network.

# Additional recommendations

## GVC201

### Space Force's internet of space and terrestrial on AWS GovCloud (US)

Hear how General Steve Butow of the Defense Innovation Unit is collaborating with the United States Space Force to demonstrate a hybrid space and terrestrial internet network that uses both AWS GovCloud (US) and U.S. government orbital space assets to provide secure, assured, and low-latency data communication.

**General Steve Butow, United States Defense Innovation Unit (DIU)**  
**Ulysses Cubillos, AWS**

## HYB204

### AWS Snow Family at the Edge

Portable AWS Snow Family edge devices and services for military and disaster response organizations integrate telecommunications, networking, compute, and storage capabilities so users can seamlessly communicate and accelerate critical decision-making in isolated environments and disaster-stricken areas. In this chalk talk, walk through the Snow Family software and hardware and whiteboard possible use cases.

**Jared Novotny, AWS**  
**Keren Morales, AWS**

## OPS201

### Working with Open Data and ML on AWS

In this builders' session, learn how to find data on the Registry of Open Data on AWS and AWS Data Exchange, and discover how to use Amazon Athena, Amazon QuickSight, and Amazon SageMaker to analyze and train machine learning models for geospatial data. You must bring your laptop to participate.

**Gabriel Bella Martini, AWS**

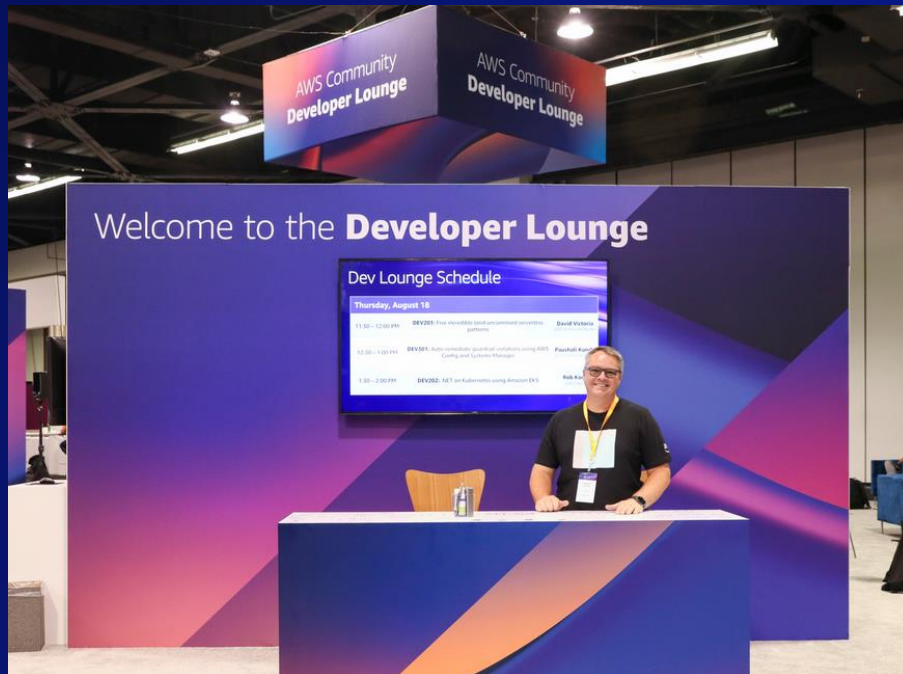
## OPS100

### Processing near real-time Drone Data using AWS SnowCone

Using AWS, Element 84 has developed Near Real-time Edge Processing of Drone and Aerial Imagery for Human Identification that leverages Machine Learning and AWS SnowCone edge capabilities during austere operations for Flooding, Wildfire and Disaster Response applications.

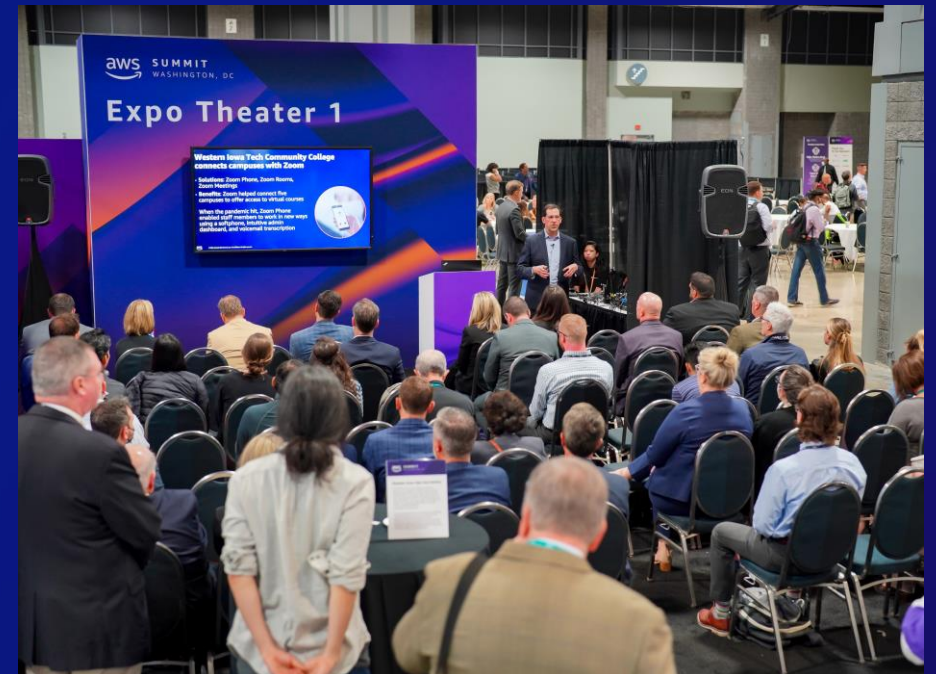
**Dan Pilone, AWS**  
**Chris Stoner, AWS**

# Expo sessions



## DEV CHATS

30-minute community-led sessions where attendees hear directly from AWS customers and AWS Heroes about how they are innovating, expediting, and scaling real-world solutions.



## LIGHTNING TALKS

15-minute sponsor-led presentations that are dedicated to a specific customer story, service demonstration, or AWS Partner offering.



# Expo activities



## AWS VILLAGE

Visit the AWS Village to get your questions answered by AWS experts. Hear from staff at the various kiosks covering topics such as State and Local Government, AWS for Education, AWS for Healthcare and Life Sciences, National Security, AWS Sustainability, and much more. Collect a sticker at any of the kiosk locations within the AWS Village.



## AWS DEEPRACER

AWS DeepRacer is the fastest way to get rolling with machine learning (ML). Developers of all skill levels can get hands on with ML through a cloud based 3D racing simulator, fully autonomous 1/18th scale race car driven by reinforcement learning, and global racing league. Attend the DeepRacer workshop to learn more!



## AWS TRAINING AND CERTIFICATION HUB

Learn from AWS experts about how AWS Training and Certification can help you gain practical experience with real-world cloud scenarios, validate your cloud expertise, and much more.

# Expo activities



## AWS ON AIR

AWS On Air brings you the latest news, announcements, launches, and demos from AWS. Watch as we review the latest launches, provide live product demos, and talk to the AWS Training & Certification team, AWS Partners, and AWS customers.



## AWS HYBRID AND EDGE ZONE

AWS hybrid cloud and edge computing services bring cloud capabilities on premises and to the furthest edge to support workloads that require low latency, local data processing, or data residency. Check out AWS edge infrastructure up close and learn how you can empower global operations and tactical edge deployments with AWS to improve quality of service and mission outcomes.



## AWS DISASTER RESPONSE

AWS enables disaster response organizations to access AWS Cloud services and technology at the edge, even in the harshest conditions. Don't miss the AWS Disaster Response "rolling lab," a purpose-built Jeep 4xe Wrangler parked on the L Street Bridge. AWS customized this vehicle to power and integrate AWS Snow Family devices, networking, communications, and Internet of Things (IoT) gear into a rolling collaboration lab that supports humanitarian assistance and disaster response (HADR) uses cases.



# Next steps

## Register

Click below to register, then share the link with colleagues and invite them to join you at AWS Summit Washington, DC!

[REGISTER](#)

## Agenda

Browse the online catalog taking note of sessions that excite you.

[BROWSE AGENDA](#)

## Mobile App

Download the mobile app today! The session catalog will be available in the mobile app in mid-May.

[DOWNLOAD IOS APP](#)[DOWNLOAD ANDROID APP](#)

## Questions

Have additional questions? Check out the FAQs page.

[FAQs](#)



# Summits checklist

- ❑ Register for [AWS Summit Washington, DC](#)
- ❑ Book your hotel and travel reservations
- ❑ Visit the [Washington, DC Summit website](#) to stay up to date on announcements
- ❑ Download the mobile app and prepare to add your favorite sessions to your agenda
  - [Download iOS app](#)
  - [Download Android app](#)
- ❑ Familiarize yourself with sponsors in the Expo, along with the Expo map on the mobile app
- ❑ Follow Amazon Web Services on [Instagram](#), [Facebook](#), [LinkedIn](#), and [Twitter](#) and use #AWSSummit to stay connected

# Build your agenda

## Keynote



## Lecture-style sessions



## Interactive sessions



## Expo sessions



### Pro Tip

Arrive early for the Keynote, and then spend the remainder of the day learning through a variety of session types.



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Global Sponsors



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# Thank you!

[insert name]

[insert contact info]

