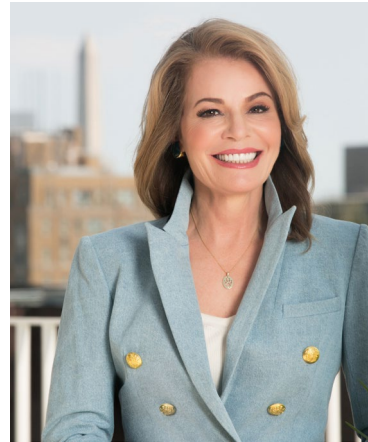




PUBLIC SECTOR
SUMMIT
WASHINGTON, DC

Interactive Attendee Guide for
Defense Professionals

Welcome!



To our guests,

On behalf of the entire Amazon Web Services (AWS) Worldwide Public Sector team, **welcome to the 2019 AWS Public Sector Summit in Washington, DC!** This year's conference is going to be our biggest yet with more than 13,000 attendees and 160 knowledge sessions.

To get the most out of the Public Sector Summit, we encourage you to take advantage of the resources outlined in this document. You can start planning your schedule at any time by logging into your account, visiting the [session catalog](#), and marking sessions of interest.

Although the AWS Public Sector Summit DC is a big conference, the strength of the public sector community makes it feel much smaller.

We look forward to seeing you in Washington, DC!

Teresa Carlson

Vice President, Worldwide Public Sector AWS

Let's get started.

This guide is designed to help DC Summit attendees plan their experience and identify breakout sessions and events of interest. It is intended to complement the summit app, which will help attendees navigate the conference onsite.

[Click on the links to navigate this guide.](#)

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What

AWS Public Sector Summit DC is a learning conference hosted by AWS for the global cloud computing community. The event features keynote announcements, trainings, certification opportunities, and more. At the conference, you'll have access to more than 160 sessions, a partner expo, after-hours events, networking opportunities.

When

June 11 – June 12, 2019. Pre-day activities and the Earth & Space keynote will occur on June 10. Seating is limited, so don't miss your chance to register. Onsite registration desk opens on June 10 at 7am.

Where

We are taking over the Walter E. Washington Convention Center in the heart of Washington, DC.

Who

13,000+ attendees, including 100+ public sector professionals, and the AWS Worldwide Public Sector team.

How

Register [here](#). After you register, you will receive an email regarding booking travel and accommodations.

What's new in 2019



Deeper technical content and more hands-on learning opportunities.



A bigger and better partner expo with partner theatre sessions.



Your own mobile app guide to everything you need to know about the DC Summit.



A new builders fair, dev lounge, and Deepracer track!

Resources to get you started

[SUMMIT HOMEPAGE](#)

[EVENT CATALOG](#)

[LEARNING](#)

[SUMMIT AGENDA](#)

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[FAQ SECTION](#)

Silent Disco Sessions

Silent Disco Sessions are a new format this year at the DC Summit. In the Ballroom on Level 3, *five breakout sessions will be running simultaneously across five different stages* throughout the main conference days. Unlike regular breakout sessions, the microphones do not project, but rather feed into headphones that line the corresponding seats in front of each session's stage.



Just like an actual silent disco, you can tune into the speaker by selecting one of the provided headphones. *Stages are lit up in different colors, which correspond to the signage, the headphones, and the mobile app.* Check out this new format onsite and let us know what you think in the mobile app survey!



New Tracks

This year, we have more tracks than ever. For the first time, we're introducing the Earth & Space track, the Mobile track, and the New AWS Services track. Check out a sample of the content featured on these brand new tracks or use the mobile app to organize sessions by track. Click the link in the planet to see more.

EARTH & SPACE

294880 - Leveraging Earth Observations and Cloud Technology for Global Sustainable Development

299940 - Networking Patterns and Practices: A Case Study of NASA Goddard Space Flight Center's Cloud Journey

301095 - Seeing the Stars Through the Cloud

[Click here to see more sessions.](#)

MOBILE

295466 - Driving Efficiency Through Mobile Applications at the Kansas Department of Revenue

295461 - Take Mobile and Web Apps to the Next Level with AWS AppSync and AWS Amplify

309630 - Creating a Modern Digital Engagement Platform for Mobile Students at Arizona State University

NEW AWS SERVICES

295501 - Developing and Teaching Robotics with AWS RoboMaker

295500 - Maximize the Performance of HPC Applications with the Latest AWS Services and Best Practices

295501 - Customer and Constituent Engagement with Amazon Connect



Pre-Day

Monday, June 10

REGISTRATION & CONTINENTAL BREAKFAST

7:00AM - 8:00AM

BOOTCAMPS & ANCILLARY ACTIVITIES

8:00AM - 5:00PM

DEPARTMENT OF DEFENSE PRE-DAY

1:00PM - 5:00PM

EARTH & SPACE ON AWS KEYNOTE

3:30PM - 4:30PM

EARTH & SPACE ON AWS RECEPTION

5:00PM - 6:00PM

Day 1

Tuesday, June 11

REGISTRATION & NETWORKING BREAKFAST

7:30AM - 9:00AM

CONCURRENT BREAKOUT SESSIONS

9:00AM - 9:50AM

10:00AM - 10:50AM

KEYNOTE WITH TERESA CARLSON, VP, WWPS AWS

11:15AM - 12:45PM

CONCURRENT BREAKOUT SESSIONS

1:45PM - 2:35PM

2:45PM - 3:35PM

CONCURRENT BREAKOUT SESSIONS

4:00PM - 4:50PM

OPENING RECEPTION

5:00PM - 6:30PM

Day 2

Wednesday, June 12

REGISTRATION & NETWORKING BREAKFAST

7:30AM - 9:00AM

CONCURRENT BREAKOUT SESSIONS

9:00AM - 9:50AM

10:00AM - 10:50AM

FIRESIDE CHAT WITH ANDY JASSY, CEO, AWS

11:15AM - 12:15PM

CONCURRENT BREAKOUT SESSIONS

1:30PM - 2:25PM

2:30PM - 3:20PM

CONCURRENT BREAKOUT SESSIONS

3:50PM - 4:40PM

CLOSING RECEPTION

5:00PM - 7:00PM

[VIEW FULL AGENDA>>](#)

Types of sessions

Breakout Session

DC Summit breakout sessions are lecture style and 50 minutes long. These sessions will take place throughout the convention center and cover all topics at all levels (200–400). Sessions are delivered by AWS experts, customers, and partners.

Dev Chats

Dev Chats are 30-minute talks from the AWS community to developers on technical topics. Learn from and network with your peers, AWS Heroes, AWS User Groups, and other members of the AWS community,

Hands-on Labs

Hands-on labs allow you to work with AWS solutions step-by-step on an AWS Console in a live practice environment. There are over 100+ lab topics to choose from, and each take between 30-60 minutes to complete.

Workshop

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

Chalk Talk

Chalk talks are a highly interactive content format with a smaller audience. They begin with a 10–15-minute lecture delivered by an AWS expert, followed by a 45–50-minute Q&A session with the audience. The goal is to foster a technical discussion around real-world architecture challenges.

Bootcamps

Bootcamps provide an opportunity to dive deep into existing and new ways to work with AWS. These full-day and half-day training sessions will be delivered by experienced AWS instructors and solution architects.

New this year



AWS COMMUNITY DEV LOUNGE

The DC Summit developer lounge engages developers with an interactive learning experience and casual environment for attendees to relax and network. Developers can share their learnings via 30-minute chats in the small theater in the lounge.

BUILDERS FAIR

Join us for eight live demonstrations that highlight how AWS spurs innovation. The range of technology on display includes analytics, virtual reality, serverless computing, Amazon Connect, and AI/ML. Meet the builders and ask questions!

AWS DEEPRACER

Attendees will be able to learn how to make machine learning modules through workshops on the pre-day, put their codes to the test with virtual simulation tracks, and compete for a chance to win a trip to re:Invent 2019 to compete in the finals.

OBLITERIDE CHALLENGE

It's the [Fred Hutchinson Cancer Research Center](#)'s annual road cycling fundraiser that supports lifesaving cancer research. Interested attendees will be challenged to cycle on stationary bikes for 5 minutes or 1 mile (whichever comes first). AWS, VMware, and other sponsors will donate per cycled mile to support the Hutch's research.

Monday

Register for pre-day activities by visiting the [DC Summit website](#).

HACKATHON FOR GOOD

8:00AM – 11:00PM

Hackers will have 14 hours to build a solution to one of four public sector customer challenges and present to the judges. Solutions architects will hold 60-minute labs to learn a new skill that can be implemented in your solutions.*

SAGEMAKER WORKSHOP

9:00AM – 11:30AM; 1:00PM-3:30PM

Learn how to solve a real-world case with machine learning and produce actionable results using Amazon SageMaker. This course will teach you how to use Amazon SageMaker to cover the different stages of the typical data science process.*

EARTH & SPACE KEYNOTE

3:30PM – 4:30PM

Join Dr. Dava Newman, Apollo Program Professor of Aeronautics and Astronautics at MIT and Lori Garver, CEO of Earthrise Alliance. Hear from each leader how tech is accelerating innovation across Earth and space, the value of public-private partnerships, the importance of elevating women in aerospace and biomedical engineering, and more.

DEPARTMENT OF DEFENSE PRE-DAY

1:00PM – 5:00PM

Attend this half-day session for the Department of Defense (DoD) IT professionals, architects, and administrators to learn how AWS accelerates transformation for DoD via AWS Cloud.*

PUBLIC SECTOR AWSOME DAY

8:00AM – 4:30PM

This one-day training will introduce AWS Cloud concepts and AWS core services for compute, storage, database, and networking. This is an entry-level course run by AWS technical experts who support public sector customers.*

BOOTCAMPS

Half/Full Day

AWS technical bootcamps offer a chance to learn about AWS services and solutions through immersive exercises and hands-on labs. They are run by AWS instructors and solutions architects.*

** Seats must be reserved in advance.*

Tuesday

WORKING BACKWARDS

9:00AM – 11:00AM

At Amazon, we start with the customer and work backwards. In this two hour workshop, we will share the five working backwards questions that we answer to solve a customer's problem or develop a new initiative. *

KEYNOTE FT. TERESA CARLSON

11:15AM – 12:45PM

Teresa Carlson is the founder and leader of the AWS Worldwide Public Sector. Today, tens of thousands of government agencies, education institutions, and nonprofit organizations around the world use AWS. Don't miss her keynote speech!

DEEPRACER WORKSHOP

Multiple Times

Join us at the AWS Public Sector Summit in Washington, DC, where we will help you build and train a model at a workshop, or you can bring one you have trained at home. You can then put your model to the test and compete on the track in the AWS Summit Expo.*

OPENING RECEPTION

5:00PM– 6:30PM

Join us at the opening reception to welcome all and bring together partners and attendees to connect and learn.

** Seats must be reserved in advance.*



Wednesday

FIRESIDE CHAT FEATURING ANDY JASSY

11:15AM – 12:15PM

AWS CEO Andy Jassy will join Teresa Carlson for a fireside chat on Wednesday, June 12 focused on the latest trends in public sector cloud adoption and how AWS is innovating to help customers drive innovation ahead of mission. Andy Jassy is founder and CEO of AWS, the world's most comprehensive and broadly adopted cloud platform.

CLOSING RECEPTION - ALICE THROUGH THE LOOKING GLASS: THE FUTURE OF AI/ML

5:00PM – 7:00PM

Every year, we end the DC Summit with a bang at our closing reception. Last year, our reception featured human bowling, ice sculptures, laser tag, acrobatics, and entertainers on stilts. This year, we invite you step through the looking glass to join us in Wonderland and spend the evening in the future. Dressing up for the theme is encouraged. After all...we're all mad here.





Index: Department of Defense Sessions

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- [296695 - Government 3.0: Modernizing your Agency & Upskilling with Machine Learning](#)
- [319414 - Modernizing your Agency to Advance your Mission in the Cloud](#)
- [295348 - The Speed to Fleet with Joint Strike Fighter: a DoD Cloud Case Study on Project Delivery Acceleration with the AWS Cloud](#)
- [324299 - Cybersecurity: A Drive Force Behind Cloud Adoption](#)
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Sessions and schedule subject to change.

310439

U.S. Army(HQDA) PA&E Enterprise Resource Allocation: Migration to the Cloud

FEATURING

US ARMY

The Army Program Analysis & Evaluation (PA&E) is the Army's lead for matching available resources to the services defense strategy and the overall Army plan. To do this, the PA&E maintains, among other authoritative systems, Army cPROBE: a collection of applications and databases used throughout the Army's Planning, Programming, Budgeting and Execution (PPBE) process. In 2018, the Army PA&E teamed with AWS to bring this critical Army resource planning and allocation system to AWS GovCloud (US)... (Interested? Follow the link below to find out more).

[Link to session](#)



FEATURED SPEAKERS: Mike Colson – SA Manager, DoD, AWS | John Ferrari – Major General, Program Analysis and Evaluation, US Army (HDQA) PA&E

296695

Government 3.0: Modernizing Your Agency and Upskilling with Machine Learning

FOCUS ON

AI/ML

Artificial intelligence (AI) makes it possible to program or train a computer to complete a range of actions. This could include transactional tasks such as filling out forms, searching and translating documents, answering user queries, and much more. Join us to learn how to modernize your organization's conversational interfaces and automate processes with AI and machine learning. Free up employee time to focus on higher priority items and, ultimately, improve service delivery for citizens.

[Link to session](#)



FEATURED SPEAKERS: US Department of Justice, NASA JPL, United States Citizenship and Immigration Services, Pacific Northwest National Laboratory

319414

Modernizing Your Agency to Advance Your Mission in the Cloud

FOCUS ON

AWS GOVCLOUD

Cloud computing helps federal, state, and local government organizations increase innovation, operational efficiency, agility, and resiliency—all while reducing costs. This panel discussion brings to life the transformative impact of cloud adoption, common cloud architectures, and the cloud adoption strategies that help agencies break down innovation barriers so they can tackle their toughest missions... (Interested? Follow the link below to read the entire abstract).

[Link to session](#)



FEATURED SPEAKERS: George Gagne – CIO, Defense POW/MIA Accounting Agency | David Catanoso, - Director, Enterprise Cloud Solutions Office, US Department of Veterans Affairs | Dave Levy, VP, US Government, AWS

295348

The Speed to Fleet with Joint Strike Fighter: A DoD Cloud Case Study on Project Delivery Acceleration with AWS Cloud

FEATURING

JOINT STRIKE FIGHTER

The Joint Strike Fighter (Program) is the Department of Defense's focal point for defining next generation strike aircraft weapon systems for the Navy, Air Force, Marines, and our allies. As the operational tempo has evolved, the requirements of the fleet has evolved the need to develop a new approach to software development and sustainment. This approach is Software Modernization, an effective hybrid of development and sustainment that involves continuous updating. In this session hear from Joint Strike Fighter (JSF), as they detail their legacy challenges, and how the move to AWS has transformed their application development practices.

[Link to session](#)



FEATURED SPEAKERS: Marc Harrington – Enterprise Chief Engineer, Joint Strike Fighter Reprogramming Enterprise

*Sessions and schedule subject to change.***324299**

Cybersecurity: A Drive Force Behind Cloud Adoption

FEATURING

CYBERSECURITY

There are four common challenges that CISOs and their security teams struggle with even in the most secure and mature organizational datacenters - visibility, resilience, defense-in-depth, and automation. Learn how these challenges become benefits of using the AWS Cloud and why cybersecurity is becoming a driving force behind commercial cloud adoption. This is an executive level presentation that covers key technical concepts and capabilities to meet business security and compliance objectives. Intended audience includes CIOs, CISOs, technical managers, senior architects and engineers new to AWS, and technically-savvy business managers.

[Link to session](#)**FEATURED SPEAKERS:** Michael South – Principal BD, Sec Acceleration, AWS**298448**

A Tale of Two IT Modernization Strategies

FOCUS ON

AWS GOV CLOUD

Join us to learn how government agencies are using AWS GovCloud (US) to achieve data center consolidation and optimization goals, and to support IT modernization. This session features the US Department of Justice Bureau of Alcohol, Tobacco, Firearms and Explosives and the Veterans Affairs Enterprise Cloud program. Topics include database re-platforming, refactoring legacy applications, compliance, technical strategies, implementation, and running operations in the cloud.

[Link to session](#)**FEATURED SPEAKERS:** Keith Brooks – Sr. Manager, AWS GovCloud, AWS | Mason McDaniel – CTO, DOJ ATF | David Catanoso – Director, Enterprise Cloud Solutions Office, USDVA**295399**

Running Kubernetes with Amazon EKS

FOCUS ON

AMAZON EKS

Kubernetes offers a powerful abstraction layer for managing containerized infrastructure. Amazon Elastic Container Service for Kubernetes (Amazon EKS) makes it easy to run Kubernetes on AWS without having to manage master nodes or the etcd operator. In this session, we cover what you need to know to get your application up and running with Kubernetes on AWS. We show how Amazon EKS makes deploying Kubernetes on AWS simple and scalable, including networking, security, monitoring, and logging.

[Link to session](#)**FEATURED SPEAKERS:** Xiang Shen – Sr. Specialist SA, AWS**296689**

The Future of Fraud Detection and Risk Modeling with AI/ML

FOCUS ON

AI/ML

See how the largest financial organizations and agencies enhance fraud detection and minimize risk with predictive and automated ML artificial intelligence. See how ML is automating fraud detection and improving the accuracy of risk profiling by detecting unusual behaviors and anomalies before humans can.

[Link to session](#)**FEATURED SPEAKERS:** Leila Nouri – AWS | Raghu Raman – Senior Director, FINRA

Sessions and schedule subject to change.

295352

Modernizing Your Application Development Environment with a Move to the Cloud

FOCUS ON

CLOUD SERVICES

General Services Administration walks you through their journey to the cloud as they modernize their application development environment. Making the choice to move to the cloud can protect your organization's valuable resource and consequently, reduce time-consuming tasks, save money, and add efficiency. By modernizing your application development environment, you gain access to innovative technologies to run all your existing systems on a platform that also allows for integration between legacy applications and cloud-native solutions.

[Link to session](#)

FEATURED SPEAKER: Cole Hubbard – Consultant, Federal, WWPS, AWS | Rick Wiggins – Consultant, Shared Delivery Teams | David Shive – CIO, The General Services Administration

295421

Getting Started with Serverless Architectures

FOCUS ON

SERVERLESS ARCHITECTURES

Join this session to learn about serverless architectures, their benefits, and the basics of the AWS serverless stack (e.g., AWS Lambda, Amazon API Gateway, and AWS Step Functions). We will discuss how to use serverless architectures for a variety of use cases. Learn practical tips and tricks and take home architecture patterns to implement immediately.

[Link to session](#)

FEATURED SPEAKERS: Ray Chang – Sr. Solutions Architect, AWS | Sandy Hider – Sr. Software Engineer, Johns Hopkins University

299940

Networking Patterns and Practices: A case study of NASA Goddard Space Flight Center's Cloud Journey

FOCUS ON

NETWORKING PATTERNS

Learn common networking patterns for connecting to AWS resources securely and reliably through the prism of NASA Goddard Space Flight Center's journey with AWS. We'll discuss lessons learned and solutions developed from implementing cloud in support of the Space Mission at GSFC. Explore use-case examples of AWS Networking innovations including Resource sharing, PrivateLink, AWS Transit Gateway, and AWS DirectConnect Gateway. We'll also explore performance considerations and the new client AWS VPN service.

[Link to session](#)

FEATURED SPEAKERS: Kyle Hart – Sr. Solutions Architect, AWS | Joseph Foster – Cloud Computing Program Manager, NASA Goddard Space Flight Center

294628

Introduction to AWS Ground Station

FOCUS ON

AWS GROUND STATION

AWS Ground Station is a fully managed service that lets you control satellite communications, downlink and process satellite data, and scale your satellite operations quickly, easily and cost-effectively without having to worry about building or managing your own ground station infrastructure. In this session, we introduce AWS Ground Station and how it works, starting from understanding the ground station console and onboarding process. We demonstrate how to schedule a contact, gather data, building architectures you can use to extract data from AWS Ground Station to analyze or store with other AWS services.

[Link to session](#)

FEATURED SPEAKERS: Nathan McGuirt, Senior Solutions Architect, AWS

Sessions and schedule subject to change.

295508

Enterprise Network Architectures on AWS

FOCUS ON

AWS NETWORK ARCHITECTURES

AWS customers are often faced with challenges in designing an enterprise scale network architecture that can meet high availability, hybrid connectivity, security, and compliance requirements. This session will be a technical deep dive into AWS Network Architectures that address these requirements, demonstrating common design patterns and best practices that are critical to public sector enterprise use-cases. New services such as AWS Transit Gateway will also be covered, including how to incorporate these services in building scalable, secure, and multi-account architectures.

[Link to session](#)

FEATURED SPEAKER: Eric Schwenter, Principal Solutions Architect, AWS | Sohaib Tahir, Solutions Architect, AWS

295440

Improving Information and Communications in a Disaster Scenario with AWS Snowball Edge

FOCUS ON

AWS SNOWBALL EDGE

We'll dive into the results of our disaster response user needs study and invite Element 84 on stage to exhibit their prototype disaster response pipeline for field data management. The serverless, cloud-based pipeline combines public and private data sources with open source software. It can provide the field with a ruggedized remote data center (SBE), preloaded with critical information, including reach-back capabilities. You'll see how this works firsthand and learn ways first responders can update data from in-situ sources such as drones.

[Link to session](#)

FEATURED SPEAKERS: Joe Flasher – AWS | Dan Pitone – CEO, Element 84

295499

Amazon Relational Database (RDS) on VMware: Running Amazon RDS On-Premises

FOCUS ON

RDS ON VMWARE

With Amazon Relational Database Service (RDS) on VMware, you can use the same, simple interface to manage databases in on-premises VMware environments as you would use in AWS. You can easily replicate Amazon RDS on VMware databases to Amazon RDS instances in AWS, enabling low-cost hybrid deployments for disaster recovery, read replica bursting, and optional long-term backup retention in Amazon Simple Storage Service (S3). Amazon RDS on VMware is in preview and will be generally available soon, supporting Microsoft SQL Server, PostgreSQL, MySQL, and MariaDB databases, with Oracle to follow in the future.

[Link to session](#)

FEATURED SPEAKERS: David Piet – Partner Solutions Architect, AWS | Samir Kadoo

295500

Maximizing the Performance of HPC Applications with the Latest AWS Services and Best Practices

FOCUS ON

HPC APPLICATIONS

Ignite your high performance computing workloads with the latest HPC services: AWS ParallelCluster, Amazon Elastic Compute Cloud (EC2) C5n, Elastic File Adapter (EFA), FSx Lustre and more. This session offers a true deep dive into how to run these demanding simulations with the latest AWS services. This presentation provides a deep dive into optimizing HPC on AWS and includes: a review of the latest instance types, and how to select an instance for your workload; a review of storage solutions targeting HPC workloads, and a deep dive into network options for high performance computing solutions on AWS.

[Link to session](#)

FEATURED SPEAKERS: Linda Hedges – Principal HPC Application Engineer, AWS | Jay Demmler – Sr. Principal Architect, Raytheon

Sessions and schedule subject to change.

295465

Mission Mobility – Creating Mobile Apps at the Intersection of Cloud and Mobile Computing

FOCUS ON

MISSION MOBILITY

Mission Mobility is a new initiative within AWS Worldwide Public Sector (WWPS) that addresses the increasing demand at the intersection of cloud and mobile computing. As both of these emerging technologies continue to grow across the government, so will the need for agencies to access cloud content at the edge. AWS is investing in building out all of the necessary components to offer a full spectrum of end-to-end mobile solutions. Once complete, government organizations will be able to leverage AWS for all of their mobile technologies including mobile device management, mobile application management, mobility as a service, mobile app security and others.

[Link to session](#)



FEATURED SPEAKER: John Ditomasso – Business Dev Manager, Mobility, AWS | Chris Gorman – COO, Monkton

295498

Build Highly Accurate Training Datasets Using Amazon SageMaker Ground Truth

FOCUS ON

AWS SAGEMAKER

Amazon SageMaker Ground Truth helps you build highly accurate training datasets for machine learning quickly. Not only does Amazon SageMaker Ground Truth offer easy access to public and private human labelers, but it also provides labelers with built-in workflows and interfaces for common labeling tasks. Join us to understand how this new service works, see a demonstration of Ground Truth in action, and find out ways to use Amazon SageMaker Ground Truth to lower your labeling costs.

[Link to session](#)



FEATURED SPEAKERS: Kate Werling – Amazon Web Services

295436

Authority to Operate on AWS: Compliance as Code

FOCUS ON

CLOUD POWER

The Authority to Operate (ATO) on AWS program aims to accelerate clients through compliance. When compliance is automated, it becomes easy; however, codifying an environment is a profound change for many organizations. Existing tools, techniques, and technologies do not directly translate to the cloud. In this session, we'll discuss the vision of the ATO on AWS program and demonstrate how compliance can be automated. You'll learn about the benefits of automating compliant workloads in the cloud and how codifying accelerates security without sacrificing reliability.

[Link to session](#)



FEATURED SPEAKERS: Ted Seffan – PDM, Security/Compliance, AWS | Tim Sandage – PDM, Security/Compliance, AWS

295497

Advanced Architectures with AWS Transit Gateway

FOCUS ON

AWS TRANSIT GATEWAY

In this session, we discuss the need for AWS Transit Gateway, dive into common use cases, and discuss reference architectures. The session will prepare you with the fundamentals to understand AWS Transit Gateway operation and create advanced architectures. Learn how AWS Transit Gateway interacts with other services, like Amazon Route 53 Resolver and AWS PrivateLink, to provide enterprise scale service in large operating environments.

[Link to session](#)



FEATURED SPEAKERS: Alan Halachmi – Senior Manager Solutions Architect, AWS

Sessions and schedule subject to change.

301104

Panel: AI for Social Good – Fairness, Ethics, Accountability, and Transparency

FOCUS ON

ARTIFICIAL INTELLIGENCE

As we begin to harness the power of artificial intelligence, machine learning, and data science in our everyday lives, it also raises complex ethical and social questions. How can we balance the need for efficiency and exploration with fairness and sensitivity to users? How do we ensure that individuals and communities can trust these systems? Join our discussion to enrich your understanding of human-AI interaction and how these questions will be answered in AI research, education and policies as we strive to improve the human condition.

[Link to session](#)



FEATURED SPEAKER: Sanjay Padhi – AWS | Prem Natarajan – VP Alexa, AWS | Patricia Flatley Brennan – Director, National Library of Medicine, NIH | Tomas Diaz de la Rubia – VP Discovery Park, Purdue University | Azer Bestavros – Director, Hariri Institute for Computing | Jim Kurose – Assistant Director CISE, NSF

295502

Using Amazon WorkSpaces to Support Compute-Intensive Curricula at a Distance

FOCUS ON

AMAZON WORKSPACES

Increasing market demands for data analytics skills are producing a greater need for hands-on analytics coursework; this, in turn, is dramatically increasing high-end computing requirements at many institutions. To address this, University of Virginia McIntire School of Commerce extended its desktop environment to the cloud using Amazon WorkSpaces, deploying preconfigured environments that are accessible on personal devices and from a distance. Join this session to learn how Amazon Workspaces can support your compute intensive curricula at a distance.

[Link to session](#)



FEATURED SPEAKERS: Andrew Defoe | Eric Rzeszut – Associate Director of Client Services, McIntire School of Commerce, UVA

295292

To Infinity and Beyond: What's new with serverless

FOCUS ON

AWS SEVERLESS

We take a look at how you can use the AWS Serverless platform to build, monitor, and deploy your modern day applications. We deep dive into how you can simplify AWS Lambda development with features like AWS Lambda Layers. You will learn how to build real time applications with API Gateway WebSocket APIs and use AWS AppSync to create powerful GraphQL based APIs. By the end of this session, you will understand how the latest improvements in serverless provide a stronger developer experience for building powerful serverless applications.

[Link to session](#)



FEATURED SPEAKERS: George Mao – Sr. Serverless Specialist SA, AWS

295507

AWS Secret Region – Lessons Learned Around DevSecOps

FOCUS ON

DEVOPS

A DoD organization had unique challenges developing and deploying applications in multiple security domains (running workloads across AWS commercial regions, the Secret Region and C2S), which is a common pattern in the DoD. Over the last year, they have reorganized their technical team comprised of military service members, government employees and contractors to adopt the DevOps approach to software development. Developers and infrastructure teams are now closely aligned using agile methods including weekly sprints and daily standup meetings..., (Interested? Learn more in the link below).

[Link to session](#)



FEATURED SPEAKERS: Tyler Haley – Cloud Services Lead, Department of Defense

*Sessions and schedule subject to change.***296692**

Building Next Generation Cybersecurity with Today's Machine Learning Solutions

FOCUS ON

AI/ML

Go beyond cyber basics and learn how to enable threat detection to proactively monitor and get ahead of unusual user behaviors, account anomalies, and even data breaches. Leverage AI/ML to quickly and accurately assess your organization's vulnerabilities without human intervention, and build a better cyber strategy that's ready for anything.

[Link to session](#)

FEATURED SPEAKER: Balaji Iyer – Business Development Manager, AI/ML, AWS | Brian Calkin – Chief Technology Officer, Center for Internet Security

300966

Best Practices for Migrating Legacy Data Warehouses into Amazon Redshift

FOCUS ON

AMAZON REDSHIFT

Migrating your data warehouse to Amazon Redshift can substantially improve query and data load performance, increase scalability, and save costs. Amazon Redshift is a fast, fully managed, petabyte-scale data warehouse that makes it simple and cost effective to analyze data using your existing business intelligence tools. AWS Database Migration Service and AWS Schema Conversion Tool make it easier to migrate your schema and data from your Oracle data warehouse to Amazon Redshift, without disrupting the applications that rely on the data source.

[Link to session](#)

FEATURED SPEAKERS: Tony Gibbs – Data Warehouse Specialist SA

299943

Implementing a Data Warehouse on AWS in a Hybrid Environment

FOCUS ON

DATA WAREHOUSES

In this session, we dive deep into concepts, strategies, and best practices for designing a cloud-based data warehousing solution using Amazon Redshift. Additionally, we review patterns in hybrid environments for collecting, storing, and preparing data for DWs using Amazon DynamoDB, AWS Database Migration Service, Amazon Kinesis Data Firehose, and Amazon Simple Storage Service (Amazon S3). Learn how Fannie Mae successfully migrated from its on-premises DW to Amazon Redshift and achieved its goals by implementing parallel query execution, key performance adjustments, and more.

[Link to session](#)

FEATURED SPEAKERS: Gargi Chhatwal | Amy Tseng – DB Engineering Manager, Fannie Mae

299937

Security & Identity: the Continuous Mitigation & Diagnostic Journey on AWS

FOCUS ON

AWS SERVICE CATALOG

The Office of Management and Budget (OMB) issued guidance that all federal agencies must establish information exchanges between their dashboards and the central federal dashboard. To assist in this requirement, we explore how agencies can implement a continuous diagnostics and mitigation (CDM) program using AWS. Topics include AWS services that map to CDM requirements; how to enforce compliance with standards; ways to provide visibility into current and actual states; how to centralize service data to build a dashboard; and how to create a chief information officer FISMA dashboard using AWS native services.

[Link to session](#)

FEATURED SPEAKERS: Darren House | John Nemoto – VP, CGI Federal

Index: Other Recommended Sessions

Breakout Sessions

[316638 - Advancing IT Modernization in Government](#)

[317697 - Using AWS to Enable Data-Driven Decision Making at the Nation's Cultural Center](#)

[317702 - We Power Tech: Recruiting, Engaging, & Retaining Diverse Technology Talent](#)

[317703 - Battling the Opioid Crisis with Help from the Cloud](#)

[317964 - Developing a Digital-Savvy Public Service](#)

[319697 - We Power Tech: Exploring Unconscious Bias](#)

Chalk Talks

[316597 - Serverless Infrastructure for Operationalizing ML on AWS](#)

[316600 - Container Security and avoiding the 2 AM Call](#)

[316601 - Pushing Amazon RDS to the Limit](#)

[316602 - From Data Silos to Data Domains - Bringing data Together Through Accelerated Data Lake Deployment](#)

[301094 - How to Create a million-core HPC Cluster using AWS](#)

[316607 - Architecture Patterns of Serverless Microservices](#)

Check out the
We Power
Tech sessions
on diversity
and exploring
unconscious
bias.



*Sessions and schedule are subject to change.***316638**

Advancing IT Modernization in Government

Can you think of a time when your agency started a procurement process and by the time good or service was available to your team, it was out of date? Or perhaps there was a next generation version already available? How about when the fiscal year ended and you had money left in a budget line item that you wished you could invest for the following fiscal year... (Interested? Read the entire abstract in the link to the session catalog below).

[Link to session](#) | [Breakout Session](#)

317697

Using AWS to Enable Data-Driven Decision Making at the Nation's Cultural Center

The Kennedy Center's strategic plan calls for much more rigorous and comprehensive data-informed decision making than we have been capable of in the past. Faced with an existing data warehouse that was outdated in design, housed on aging hardware, and which performed poorly, the Kennedy Center undertook a "giant sprint" modernization project... (Interested? Read the entire abstract in the link to the session catalog below).

[Link to session](#) | [Breakout Session](#)

317702

We Power Tech: Recruiting, Engaging, & Retaining Diverse Technology Talent

Decades of research shows that inclusive and diverse teams produce better business results. But how do we prioritize inclusion as we build our technical teams? What can leaders do – from cultivating the pipeline, to hiring, to internal strategies – to make the future of tech more diverse and inclusive? Join this group of expert technical leaders during these lightning talks to explore inclusion around race, gender and gender identity, ability status, and other underrepresented and intersectional communities. Attendees will leave with solutions on how to prioritize inclusion and drive results.

[Link to session](#) | [Breakout Session](#)

317703

Battling the Opioid Crisis with Help from the Cloud

This session will reconvene founding members of the AWS Opioid Crisis Council, as well as new members and supporters, to discuss how AWS has been teaming with governments and technology partners to collaboratively address the Opioid Crisis since its declaration as a national public health emergency in 2017.... (Interested? Read the entire abstract in the link to the session catalog below).

[Link to session](#) | [Breakout Session](#)

317964

Developing a Digital-Savvy Public Service

Public service has traditionally been an employer of choice across countries, offering opportunities to serve coupled with job security, benefits, and career advancement. However, some governments today struggle to attract and upskill their digital workforce. This panel will shed light on the challenges governments face in recruiting talent. It will use the Canadian and US governments as case studies and provide strategies to address those challenges.

[Link to session](#) | [Breakout Session](#)

319697

We Power Tech: Exploring Unconscious Bias

This session uncovers how hidden biases affect organizations and inspires participants to reflect on their own biases. Attendees will experience how bias functions in the brain, shaping our perception of reality, recognize the negative impacts of bias and the business case to mitigate it, and identify ways to apply the learnings of this session individually and organizationally.

[Link to session](#) | [Breakout Session](#)

*Sessions and schedule are subject to change.***316597**Serverless Infrastructure for
Operationalizing ML on AWS

Research and development in Machine Learning and AI differs in some key ways from traditional software engineering, and many factors affect the complexity of infrastructure, maintenance, and DevOps for ML in organizations. This Chalk Talk will cover serverless infrastructure for training, tuning, deploying, serving and maintaining ML models on AWS... (Interested? Read the entire abstract in the link to the session catalog below).

[Link to session](#) | [Chalk Talk](#)**316600**Container Security and avoiding the
2 AM Call

Containers are becoming one of the new normal infrastructures for deploying applications. One of the challenges that customers encounter is how to secure their applications. Traditional security practices and tools are designed for applications running directly on the hosts whereas containers are virtualized and multi-tenant... (Interested? Read the entire abstract in the link to the session catalog below).

[Link to Session](#) | [Breakout session](#)**316602**From Data Silos to Data Domains -
Bringing data Together Through
Accelerated Data Lake Deployments

We will look at data from various sources (e.g. systems, APIs, SFTP and batch) and determine how to utilize a data lake so it can be securely and easily consumed by a wide range of users using AWS services. We will cover how to think of data as a domain rather than from a source system and demonstrate how to use a data lake approach to bring customer data into a single domain.

[Link to session](#) | [Breakout session](#)**316601**

Pushing Amazon RDS to the Limit

Is Amazon EC2 is the only option for your legacy customized Oracle DB on AWS? Do you want to move your legacy Oracle database on AWS but are not sure that RDS can handle all custom developments you have on top of your business-critical database? In this session, we will discuss how Amazon Oracle RDS can be leveraged to accommodate specifics of your legacy database in the cloud... (Interested? Read the entire abstract in the link to the session catalog below).

[Link to session](#) | [Chalk Talk](#)**316607**Architecture Patterns of
Serverless Microservices

In this chalk talk, we describe the architecture patterns you can use to deploy serverless microservices, the design considerations, and best practices.

[Link to session](#) | [Chalk Talk](#)**301094**How to Create a million-core
HPC Cluster using AWS

Learn how to dynamically create a large scale high performance computing cluster of more than a million cores utilizing AWS spot instances.

[Link to session](#) | [Chalk Talk](#)

Earth & Space Keynote Speakers



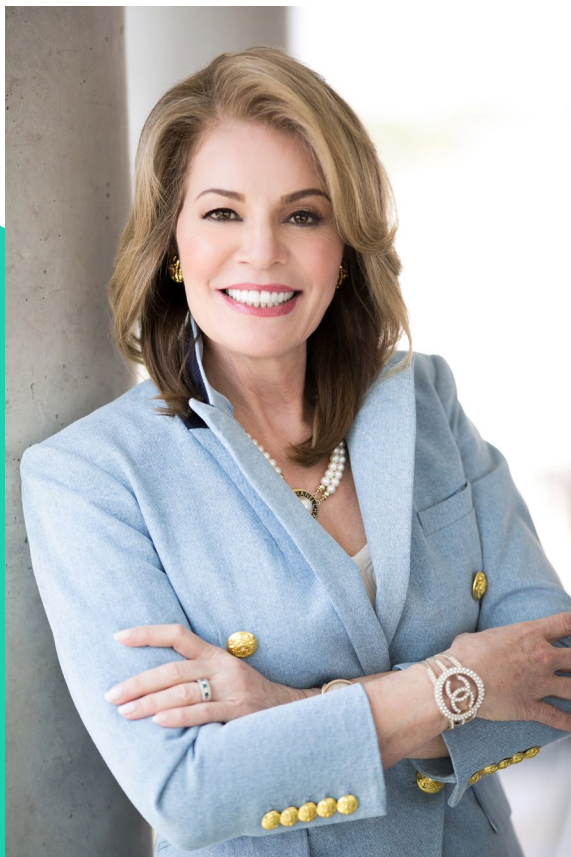
Dr. Dava Newman
Apollo Program Professor of Astronautics
Harvard-MIT Health, Sciences & Technology

Monday, June 10
3:30pm – 4:30pm



Lori Garver
CEO
Earthrise Alliance

Monday, June 10
3:30pm – 4:30pm



Teresa Carlson
VP, WWPS AWS

Tuesday, June 11
11:15am – 12:45pm



Andy Jassy
CEO, AWS

Wednesday, June 12
11:15am – 12:15pm



Kenny Bowen
Department of Defense, Chief
Information Officer for Special Access
Programs (DoD SAP CIO)

Tuesday, June 11
11:15am – 12:45pm

Main Day Keynote Speakers

Walter E. Convention Center: Level 1

Yellow:
Breakout Sessions

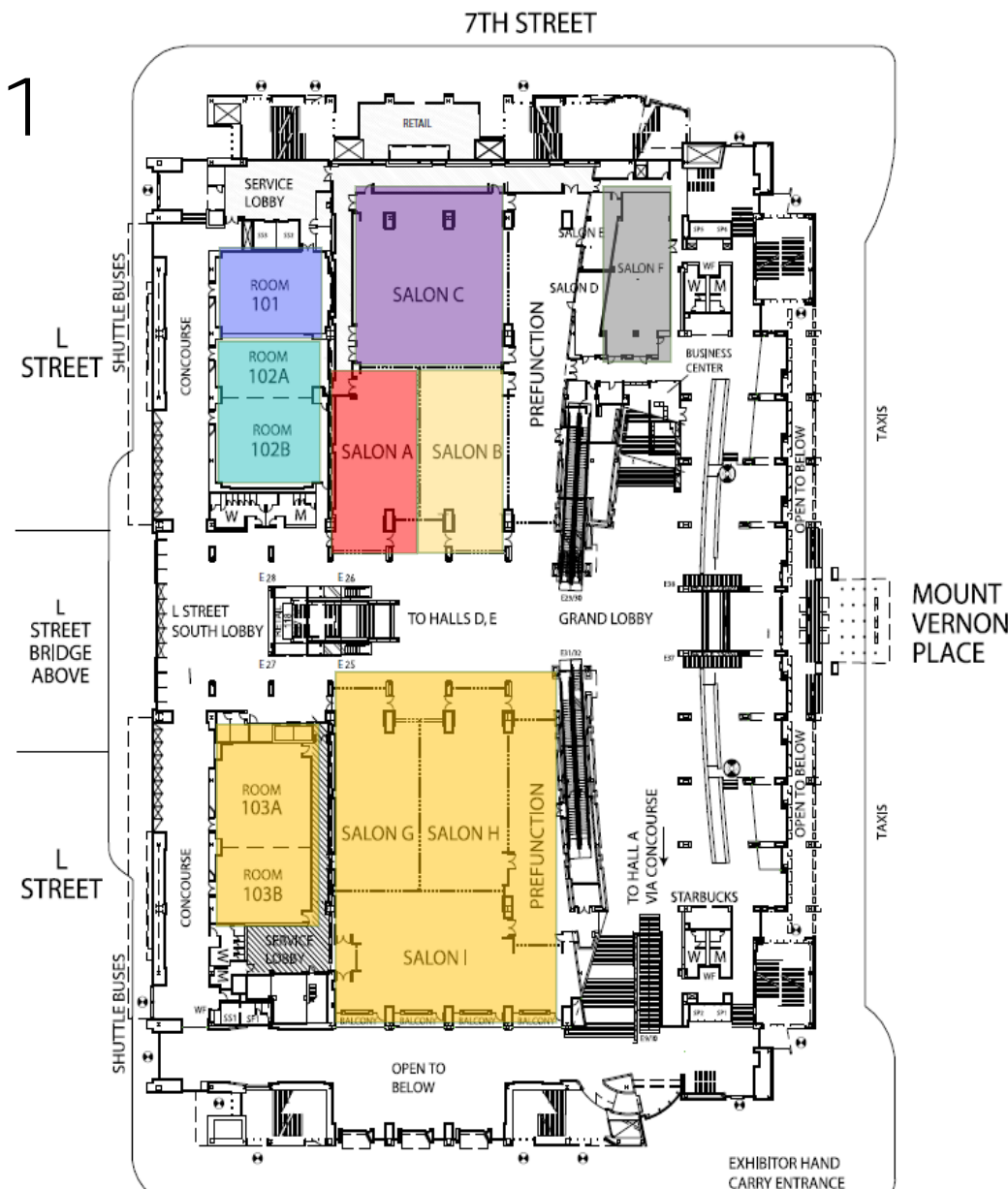
Red:
Workshops & Ancillary
Meetings

Green:
Speaker Ready Room
(Room 102AB)

Grey:
Chalk Talk Room
(Salon F)

Blue
Private Offices

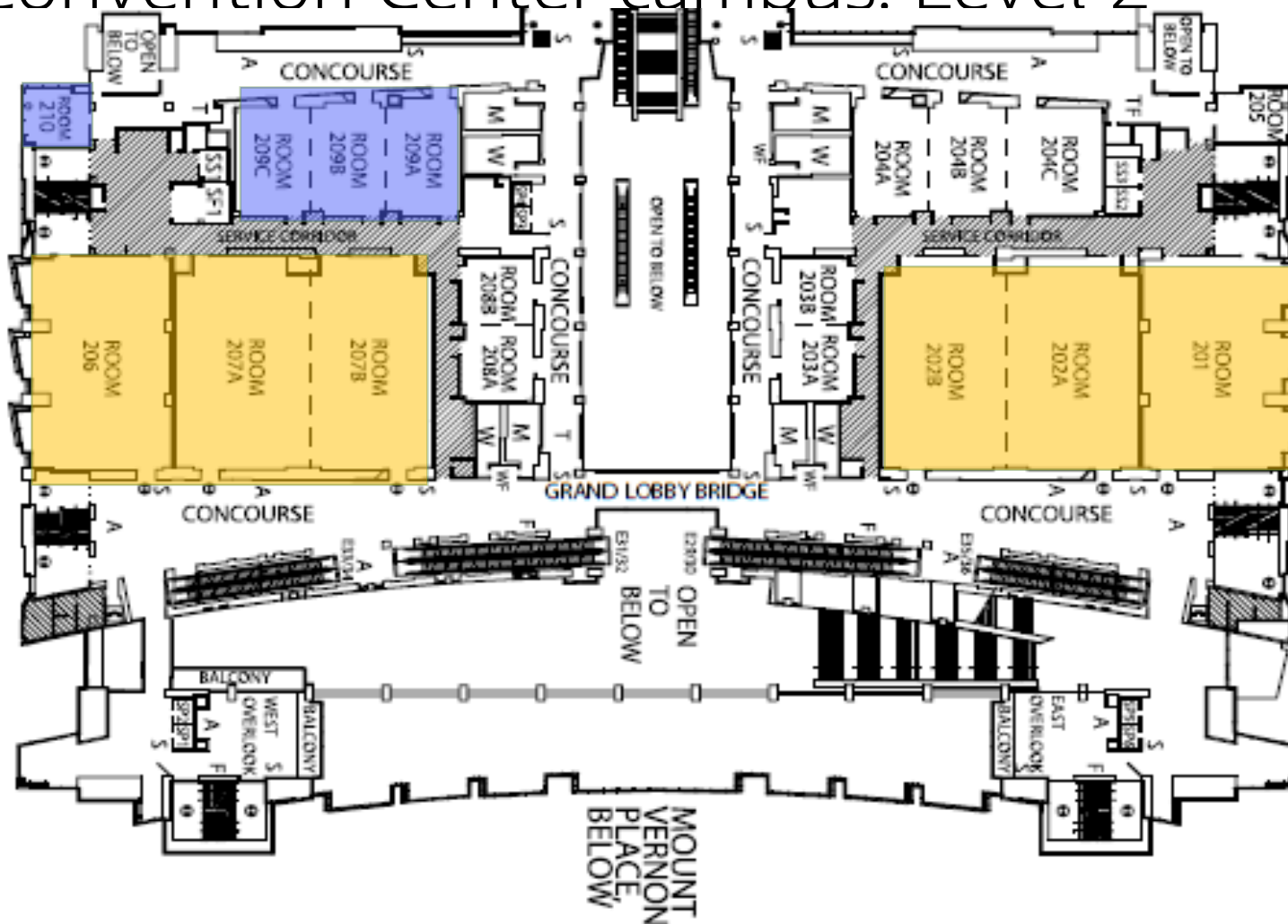
Purple:
Executive Program Room



Explore the Walter E. Convention Center campus: Level 2

Yellow:
Breakout Sessions

Blue:
Offices
Analyst Interview Room (210)
Press Interview Room (209B)
Pres Room (209A)
Analyst Relations Room (209C)



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Thank you!