



AWS re:Invent

NOV. 26 - NOV. 30, 2018 LAS VEGAS, NV

Interactive attendee guide for
Public Sector Professionals

Welcome.



Hello,

On behalf of the entire AWS Worldwide Public Sector team, **welcome to re:Invent 2018!** This year's conference is going to be our biggest yet, with 50,000+ attendees (including more than 5,000 public Sector professionals) and more than 2,000 technical sessions.

To get the most out of re:Invent, we encourage you to take advantage of the resources outlined in this document, including our "[How to re:Invent](#)" video series. Keep in mind that **reserved seating goes live on October 11**. You can start planning your schedule at any time by logging into your account, visiting the [session catalog](#), and marking sessions of interest.

Although re:Invent is a big conference, the strength of the public sector community makes it a much more intimate experience.

We look forward to seeing you in Vegas!

Teresa Carlson

Vice President, AWS Worldwide Public Sector

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Let's get started.

This guide is designed to help attendees of AWS re:Invent 2018 plan their experience and identify breakout sessions and events of interest. It is intended to complement the re:Invent app, which will help attendees navigate the conference on-site.

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What

AWS re:Invent is a learning conference hosted by Amazon Web Services (AWS) for the global cloud computing community. The event features keynote announcements, training, and certification opportunities. At the conference, you'll have access to more than 2,000 technical sessions, a partner expo, after-hours events, and so much more.

When

November 26 - November 30, 2018. Onsite registration desk opens on Sunday, November 25, at 1PM.

Where

We are taking over Las Vegas with events at the ARIA, Vdara, Bellagio, Encore, MGM Grand, Mirage, and The Venetian.

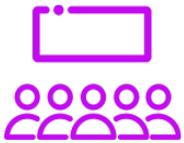
Who

50,000+ attendees, including 5,000+ public sector professionals, and the AWS Worldwide Public Sector team.

How

Register [here](#), book your travel and hotel [here](#), check out our [justification letter](#) (if you need one), and watch the How to re:Invent videos [here](#).

What's new in 2018?



Deeper technical content and more hands-on learning opportunities.



A bigger and better Partner Expo, with over 2,000 breakout sessions.



For the first time, attendees will be able to reserve seats using both the re:Invent registration app and the re:Invent mobile app.



More unique events: broomball, the Tatonka Challenge, fitness activities, and the re:Play party!

Resources to get you started

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[EVENT CATALOG](#)

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How to re:Invent

Are you ready for re:Invent 2018? We certainly are!

In our new webinar series, **“How to re:Invent,”** you’ll get an introduction to all things re:Invent 2018. Join your hosts, Annie Hancock (Head of Creative & Customer Experiences, AWS) and Jill Fagan (Lead, AWS re:Invent Content) for a tour of the campus, the content, the after-hours events, and all of the ways we are making this year’s event better than ever.



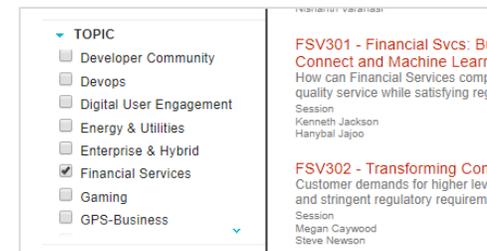
[Watch the full webinar series »](#)

How to manage your schedule

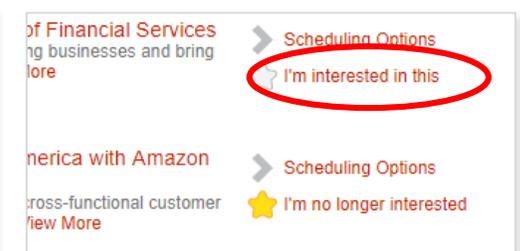
We are pleased to announce **50+ sessions** focused on public sector at re:Invent. We have highlighted them in the following sections and have provided a guide to finding any session of interest in the event catalog and adding it to your schedule.



1. Visit the [event catalog](#) and make sure you are logged in.



2. Scroll down the left-hand navigation bar, find **Topic or Industry**, and check any topics or industries of interest.



3. Tag appealing sessions as “I’m interested in this” or click on the arrow at right to pursue different scheduling options.

Registration

Registration & Help Desk

Sunday, November 25: 1:00pm-8:00pm

The Venetian, MGM, ARIA, Mirage

Monday, November 26: 6:30am-8:00pm

The Venetian & ARIA

Tuesday, November 27: 6:30am-8:00pm

The Venetian & ARIA

Wednesday, November 28: 6:30am-8:00pm

The Venetian & ARIA

Thursday, November 29: 6:30am-8:00pm

The Venetian & ARIA

Friday, November 30: 7:00am-12:00pm

The Venetian & Mirage

*Registration is closed on Friday

HARLEY RIDE

Sunday, November 25: 12:00pm-5:30pm

MIDNIGHT MADNESS

Sunday, November 25: 10:00pm-1:00am

Day 1

Monday, November 26

AWS CERTIFIED LOUNGE

7:30am-5:00pm (The Venetian)
& **4:00pm-7:00pm** (ARIA)

AWS CERTIFICATION EXAMS

7:30am-9:00pm

HANDS-ON LABS

8:00am-4:00pm

SPOTLIGHT LABS & BOOTCAMPS

8:00am-5:00pm

BREAKOUT SESSIONS

10:00am-9:00pm

MEALS

11:00am-1:00pm

WELCOME RECEPTION

4:00pm-7:00pm

EXPO & THE QUAD

4:00pm-7:00pm

MONDAY NIGHT LIVE

7:30pm-9:00pm

Day 2

Tuesday, November 27

AWS 4K AND 8K RUN

6:00am-8:00am

MEALS

6:30am-8:30am & **11:00am-1:00pm**

AWS CERTIFIED LOUNGE

7:30am-6:00pm (The Venetian)
& **8:00am-6:00pm** (ARIA)

AWS CERTIFICATION EXAMS

7:30am - 9:00pm

HANDS-ON LABS

8:00am-4:00pm

SPOTLIGHT LABS & BOOTCAMPS

8:00am-5:00pm

BREAKOUT SESSIONS

8:00am-6:00pm & **7:00-9:00pm**

KEYNOTE, GLOBAL PARTNER SUMMIT

8:30am-10:30am

EXPO & THE QUAD

8:00am-6:00pm

PUB CRAWL

6:00pm-8:00pm

Day 3

Wednesday, November 28

MEALS

6:30am-8:30am & 11:00am-1:00pm

AWS CERTIFIED LOUNGE

7:30am-6:00pm (The Venetian)
& 10:00am-6:00pm (ARIA)

AWS CERTIFICATION EXAMS

7:30am-6:30pm

KEYNOTE, ANDY JASSY

8:00am-10:30am

HANDS-ON LABS

8:00am-4:00pm & 7:00pm-11:00pm

SPOTLIGHT LABS

8:00am-5:00pm

BREAKOUT SESSIONS

11:30am-6:00pm & 7:00-9:00pm

GLOBAL PARTNER SUMMIT KEYNOTE

8:30am-10:30am

EXPO & THE QUAD

8:00am-6:00pm

AWS CERTIFIED APPRECIATION RECEPTION

6:00pm-8:00pm

Day 4

Thursday, November 29

MEALS

6:30am-8:30am & 11:00am-1:00pm

AWS CERTIFIED LOUNGE

7:30am-5:00pm (The Venetian)
& 10:00am-4:00pm (ARIA)

AWS CERTIFICATION EXAMS

7:30am - 5:00pm

KEYNOTE, DR. WERNER VOGELS

8:30am-10:30am

HANDS-ON LABS

8:00am-4:00pm

SPOTLIGHT LABS

8:00am-5:00pm

BREAKOUT SESSIONS

11:30am-5:30pm

EXPO & THE QUAD

4:00pm-7:00pm

RE:PLAY

8:00pm-12:00am

Day 5

Friday, November 30

MEALS

6:30am-8:30am

AWS CERTIFIED LOUNGE

7:30am - 12:00pm (The Venetian)

AWS CERTIFICATION EXAMS

7:30am - 12:30pm

HANDS-ON LABS

8:00am-11:00am

BREAKOUT SESSIONS

8:00am-12:30pm

[View full agenda online](#) »

Types of Sessions

Breakout Session

re:Invent breakout sessions are **lecture style and 60 minutes long**. These sessions will take place throughout the re:Invent campus and cover all topics at all levels (200–400). Sessions are delivered by AWS experts, customers, and partners, and they typically include 10–15 minutes at the end for Q&A.

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. Each workshop starts with a 10–15-minute lecture by the main speaker, and the rest of the time is spent working as a group. **Come prepared with your laptop** and willingness to learn! AWS will provide credits.

Builders Session

Builders Sessions are **60-minute small groups sessions** with up to five customers and one AWS expert, who is there to help, answer questions, and provide guidance. You will use your laptop to experiment and build with the AWS expert after a short demonstration. There is **reserved seating** for builders sessions.

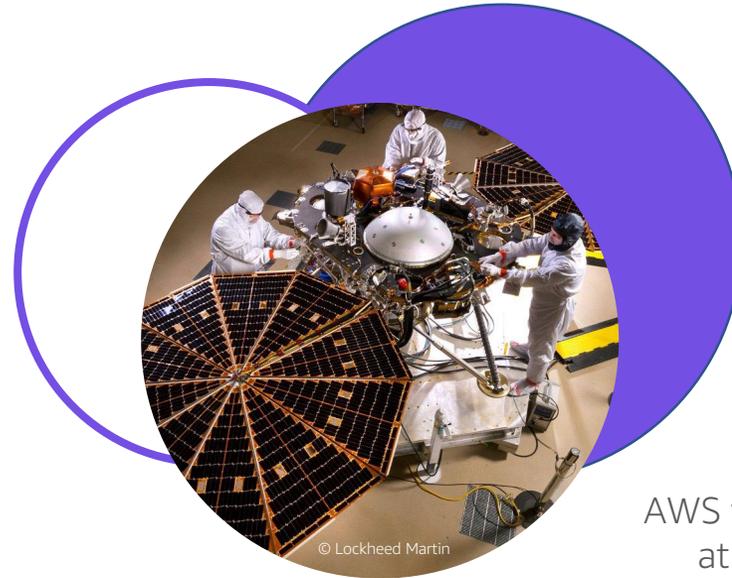
Chalk Talk

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. **Chalk talks are one hour** and are presented by AWS experts. They have **expert level content**.

Demo Sessions

Demo sessions feature AWS experts, partners, and customers, presenting **informative demonstrations**. Learn the techniques used to build specific solutions, overcoming technological challenges faced by enterprises and startups alike.

MONDAY



NASA Mars Rover "InSight" Landing Simulcast

11:00am | Multiple Locations

AWS will be simulcasting the **landing of the NASA Mars Rover InSight** at noon on Monday. You can watch this from any of the **overflow rooms** at each of the five venues. Venetian, Aria, MGM, Bellagio, Mirage

TUESDAY

Worldwide Public Sector Breakfast hosted by Teresa Carlson

7:00am – 8:30am | Venetian, Level 5, Palazzo Ballroom O

The World Wide Public Sector Breakfast Keynote will feature Teresa Carlson, VP, World Wide Public Sector for Amazon Web Services. Customers will **hear the latest global updates on the public sector business including exciting announcements, program updates, and inspiring customer stories.** Don't miss the opportunity to hear directly from AWS customers across the public sector as they share the impact cloud has made on their organizations, people and mission. Breakfast will be provided.

2018 Re:Invent NPO Hackathon for Social Good

(Doors open at 8am) 9am – MIDNIGHT | MGM Studio Ballroom

Welcome to the sixth annual re:Invent NPO Hackathon for Social Good. This year, we've teamed up with Accenture and four non-profit organizations to identify specific challenges facing each of the non-profits today. If you're passionate about applying your coding skills for social good, **come join us in Las Vegas to make new friends, learn new skills, and build functioning prototypes to address those challenges.** At the end of the hackathon, **all teams will present their demos to a panel of judges** for a chance to **win prizes**. In past years, these winning solutions have often been put into production by the non-profits. [Click here for more information](#)

AI Summit

1:00pm – 5:00pm | Venetian, Level 2, Venetian Theatre

Artificial intelligence (AI) is having a profound impact as industries increasingly depend on digital resources to innovate. With the future of AI in mind, the AI Summit at re:Invent showcases the latest in AI research and emerging trends. **In 30-minute Lightning Talks**, attendees hear from leaders in the research community who share their perspectives on everything from **AI-fueled cancer research to quantum computing**. The AI Summit is held on Tuesday November 27th from 1:00pm to 5:30pm at the Venetian Theater. Presenters at this year's event include **Alexandre Bayen (UC Berkeley), Mona Singh (Princeton University), Rohit Prasad (Amazon AI), Thorsten Joachims (Cornell University), Jodi Forlizzi (Carnegie Mellon University), Peter Wittek (University of Toronto), Shyam Gollakota (University of Washington) and Ronald Fedkiw (Stanford University)**. [Click here to reserve on your schedule.](#)

WEDNESDAY

We Power Tech Reception

6:00pm – 8:00pm | Aria Hotel, Primrosa Ballroom 4

AWS celebrates the diversity of our customers, partners, and employees. Amazon has always been, and always will be, committed to tolerance and inclusion. Join us for a reception in celebration of inclusion in tech and a preview of other upcoming We Power Tech events. Sponsored by Accenture.

Worldwide Public Sector Reception

8:00pm – 11:00pm | Drai's Night Club at The Cromwell Hotel

Join AWS Worldwide Public Sector for a night at The Cromwell Hotel. Please note that you must be at least 21 years old with a valid government-issued photo ID to enter. Drai's management reserves all rights at the door and anytime during the event.



Other Networking Opportunities

(Click on the titles to go to the respective event pages.)

Harley Ride

Kick off your AWS re:Invent experience. Board a bus that will transfer attendees to Las Vegas Eagle Rider. There will be two scenic route options this year.

Sunday, November 25: 12:00pm-5:30am

Starts at the Venetian Tour Lobby
To reserve your seat, register [here](#)

Midnight Madness

AWS style pep rally to kick off the week, complete with swag, drinks, and snacks. Open to the first 6,000 fans.

Sunday, November 25: 10:00pm-1:00am

Tatanka Challenge

Join us as we attempt to break our 2017 Guinness World Record of the largest chicken wing eating competition.

Sunday, November 25: 10:30pm-Midnight

Welcome Reception

Where attendees and partners come together to connect and learn.

Monday, November 26: 4:00pm-7:00pm

The Venetian & The Quad at ARIA

4K and 8K Run

This year, we're doubling the fun of the 4K and adding an 8K distance for those who want a longer run.

Tuesday, November 27: 6:00am

Starts at the Mirage
Sign up when you log into your account

Pub Crawl

Network and connect with fellow re:Invent attendees and AWS sponsors. Each location highlights a specific topic.

Tuesday, November 27: 6:00pm-8:00pm

ARIA, MGM Grand, Mirage & The Venetian

re:PLAY

Not just an EDM concert and interactive extravaganza, the re:Play party is the ultimate playground.

Thursday, November 29: 8:00pm-Midnight

Broomball

Played at our annual company picnic, our homegrown variant of broomball combines aspects of traditional broomball and soccer.

Thursday, November 29: 7:30pm-9:00pm

Sign up at aws-reinvent-broomball@amazon.com

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Breakout Sessions

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[WPS205 – Grow the Pipeline for Cloud Workers and Impact the Global Tech Workforce Shortfall](#)
[WPS203 – You’ve Decided to Buy Cloud Services, Now What?](#)
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[WPS202 – Modernizing Public Sector on the Cloud](#)
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[BAP201 – Securely Deliver Desktop Applications with Amazon AppStream 2.0](#)
[DVC203 – ProTips for Scaling AWS Training to Accelerate Adoption](#)
[STG207 – How to UCSD Simplified Data Protection with Rubrik and AWS](#)
[CMP204 – How to Effectively Plan for Disaster Recovery on AWS](#)
[ARC209 – Architecture Patterns for Multi-Region Active-Active Applications](#)
[DAT317 – Best Practices for Running Oracle Databases on Amazon RDS](#)
[SEC311 – AWS and Symantec: Cyber Defense at Scale](#)
[ANT209 – A New Approach for Security & Compliance Success in the Cloud](#)
[HLC 301 – Architecting for Healthcare Compliance on AWS](#)
[HLC 302 – Automating Compliance on AWS](#)
[DAT325 – How Oath \(a Verizon Company\) Built a Multi-Region GDPR Application with Amazon Dynamo DB](#)
[WPT201 – We Power Tech: Lighting Talks with Executive Women in Tech](#)
[WPT202 – We Power Tech: Everyday Actions to be a Better Ally](#)
[WPT203 – We Power Tech: Addressing Intersectionality in Tech](#)
[WPT204 – We Power Tech: The Important Role White Men Play in Creating a Culture of Full Inclusion](#)

In the following pages, look for these symbols to find featured content of particular interest to nonprofit, education or government organizations :

 – Nonprofit
  – Education
  – Government

Chalk Talks

[BAP211 - Amazon WorkSpaces for Regulated Industries \(with Bridgewater\)](#)
[WPS318 - Implement Enterprise Records Management Policies on Your AWS Data Lake \(with FINRA\)](#)
[WPS320 – HOT Lanes to the AWS Cloud: Optimize Network Design for AWS GovCloud \(US\)](#)
[WPS314 – Machine Learning & Analytics on Snowball Edge](#)
[WPS311 – Private Network Connectivity: Connecting AWS into Public Sector Networks](#)
[WPS324 – Building Your Geospatial Data Lake](#)
[AIM347 – Detecting Financial Market Manipulation Using Machine Learning](#)
[AIM422 – Fraud Detection and Prevention using Amazon SageMaker and Amazon Neptune](#)
[WPS326 – AWS Public Data Sets: How To Stage Petabytes of Data of Analysis in AWS](#)
[WPS310 – Provide Faster, Scalable Solutions to Support Research Use Cases with AWS](#)
[WPS313 – Machine Learning for Improving Disaster Management and Response](#)
[WPS325 – Design Continuous Authorization for Rapid Delivery of Mission-Critical Services](#)
[WPS337 – Pushing Amazon RDS to the Limit](#)
[AIM310 – How Emory University Built an NLP Platform Using Apache MXNet and Gluon](#)
[LFS 310 – Can Deep Learning Be Used to Treat Disease and Measure Product Value?](#)
[CTD408 – Insights into the Government Glass-to-Glass Video Workflows](#)
[BAP411 – Integrate Amazon WorkDocs with Security & Compliance Solutions & Applications](#)
[ENT233 – How Enterprises Are Modernizing Their Security, Risk Management & Compliance Strategy](#)
[SEC206 – GDPR Readiness & Management](#)
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Index: Public Sector Sessions

In the following pages, look for these symbols to find featured content of particular interest to nonprofit, education or government organizations :

N – Nonprofit

E – Education

G – Government

Builders Sessions

[WPS309 – Build an Amazon EMR-Based Data Science Environment for Highly Sensitive Data](#)
[WPS316 – Use Sentiment analysis of Social Media Posts to Gauge Public Opinion](#)
[WPS308 – On-Demand Enterprise IT Environments, from Desktops to Servers](#)
[WPS301 – Building & Architecting ML Workstreams for Topic Modeling](#)
[WPS306 – Identify & Address Query Performance Issues in Aurora](#)
[WPS302 – Best Practices for Working with Large-Scale Geospatial Imagery](#)
[WPS201 – Build a Genome Clustering Model with Amazon SageMaker](#)
[WPS317 – Fraud Detection with Amazon Neptune](#)
[WPS312 – Build a Video Recommendation Engine with Amazon ML & Neptune](#)
[DEV347 – DevOps Concepts for Data Science](#)
[SEC336 – Aligning to the NIST Cybersecurity Framework in the AWS Cloud](#)
[ANT346 – Lock it Down: Configure End-to-End Security & Access Control on Amazon EMR](#)

Demo Sessions

[DEM03 – Architecting DevSecOps: Advanced Cyber Security for AWS](#)
[DEM37 – Take the Next Step in Cloud Security – Total Compliance](#)
[DEM38 – Enhance Your Application Security strategy](#)
[DEM35 - Opportunistic Hacks & Persistent Attacks: Preparing for 2019](#)

Workshops

[WPS206 – Executive Security Simulation Workshop](#)
[WPS307 – DevSecOps: Instituting Cultural Transformation for Public Sector Organizations](#)
[AIM314 – Create a Question and Answer Bot with Amazon Lex & Alexa](#)
[STG405 – Automate Application Data Protection and Centralize Backup Management in AWS](#)



WPS305 

How Fannie Mae Processes over a Quarter Million Loans per day with Amazon S3

FEATURING

FANNIE MAE & TERAFUZE, INC.

In this session, Fannie Mae discusses how they completely re-architected a mission-critical application using AWS native services that process hundreds of thousands of mortgage loans every day in a highly scalable and reliable manner. The transaction-heavy workload uses over 20+ million Amazon S3 transactions a day, each within 150-millisecond response times, thus providing increased uptime and faster response.

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



FEATURED SPEAKER: Harsha Nippani – Senior Solutions Architect, AWS | Oliver Mathias – Architect, Fannie Mae | Sriram Sharma – Founder & CEO, Terafuzze, Inc.

WPS205  

Grow the Pipeline for Cloud Workers and Impact the Global Tech Workforce Shortfall

FOCUS ON

EDUCATION

On LinkedIn, the #1 skill for three years in a row is “cloud and distributed computing”. The pressure on our educational system to produce tech-ready employees, and on companies to source talent, is enormous, with ripe opportunities for “disintermediation.” In this session, hear from the disruptors who are collaborating with AWS Educate in order to rapidly change the trajectory and impact that global skills gap. Meet both the supply and demand side for cloud jobs.

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



FEATURED SPEAKERS: Ian Wilson – VP Human Resources, AWS | Ken Eisner – Senior Manager, Worldwide Education Programs, AWS | Safaa El Tayeb El-Kogali – Education Practice Manager Middle East and North Africa, World Bank Group | Scott Ralls – President, Northern Virginia Community College

WPS203  

You’ve Decided to Buy Cloud Services, Now What?

FOCUS ON

PROCUREMENT

In this session, we look at cloud-ready contracts from around the world. We compare and contrast these contracts through scope identification, end-user eligibility, and primary service offerings (i.e., MSP vs. IaaS resale) to help you determine a contract pathway that meets your mission needs. We discuss considerations for buying cloud services so that end users and organizations can extract the full benefits and power of AWS. Join us and gain an understanding of how to approach shared security, utility pricing, data location, innovative services, governance, and terms and conditions for a successful procurement effort.

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



FEATURED SPEAKERS: Jane Lacy, Senior Manager Emerging Partners, AWS | David DeBrandt, Senior Manager Global Capture, AWS

WPS304 

Rapid Prototyping for Today’s Mission

FEATURING

DEPARTMENT OF DEFENSE

Rapid prototyping decreases development cycles to provide mission-focused analysts with cutting-edge solutions quickly. In this session, learn more about how AWS services support some of the nation’s most critical *Department of Defense* missions, operating in tactical edge environments with frequently disconnected users that operate in bandwidth disadvantaged environments.

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



FEATURED SPEAKER Matthew Teschke, Senior Data Scientist, Novetta | Zach Hall, Chief Architect Global Analytics, Department of Defense | Kevin Heald, Vice President Defense Intelligence Solutions, Novetta

WPS202 

Modernizing Public Sector in the Cloud

FOCUS ON

GLOBAL PUBLIC SECTOR

As Public Sector organizations move to the cloud, they're finding it to be a springboard for innovation. Local and regional organizations around the globe are developing digital services to improve the lives of the citizens they serve, creating platforms where citizens can be heard and increasing engagement within their communities. Join us on this panel as we travel from the Americas to Europe and Singapore as we dive into stories of migration and innovation. We'll hear from Athabasca University, Radio France, the Department for Work and Pensions, and Singapore's Land Transport Authority as they share their individual journeys to the cloud and the learnings they have acquired on the way.

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



FEATURED SPEAKERS: Doug VanDyke, Director, AWS | Peter Quek Ser Hwee, CIO, Land Transport Authority | Diptesh Patel, Deputy Director, Department of Work and Pensions | Jennifer Schaeffer, VP IT and CIO, Athabasca University | Jean-marie Simonin, Cloud Team Manager, Radio France

WPS303 

Unlock Highly Regulated Enterprise Workloads with SaaS on AWS GovCloud (US)

FOCUS ON

AWS GOV CLOUD (US)

AWS GovCloud (US) is isolated AWS infrastructure and services designed to allow US government agencies and enterprises in highly regulated industries to move sensitive data and regulated IT workloads to the cloud by addressing specific regulatory and compliance requirements. While enterprises and organizations are increasingly integrating software as a service (SaaS) technologies into their IT environments, they often require SaaS products to address the same compliance features of the AWS GovCloud (US) Region. In this session, we discuss the opportunities for SaaS in AWS GovCloud (US), how SaaS vendors should approach building products in AWS GovCloud (US), key architecture and operational considerations, and best practices for bringing a SaaS product on AWS GovCloud (US) to market.

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



FEATURED SPEAKERS: Keith Brooks, Head of Business Development, AWS GovCloud (US) | David Cruley, Manager WWPS Specialists Team, AWS | Rick Cirigliano, VP Global Cloud Operations, Infor

WPS315 

National Geospatial-Intelligence Agency: Changing the Way the Intelligence Community Moves Data

FEATURING

NATIONAL GEOSPATIAL-INTELLIGENCE AGENCY

In this session, we feature the U.S. National Geospatial-Intelligence Agency (NGA), a key stakeholder and sponsor for the new AWS Secret Region, which supports workloads up to the Secret U.S. security classification level and is readily available to the U.S. Intelligence Community (IC). NGA uses AWS Snowball Edge to support War Fighter, utilizing imagery from NGA's Open Data Store and implementing geospatial applications on the edge. AWS Snowball Edge allows NGA to directly support its mission, providing products and services to decision makers, warfighters, and first responders when they need it most. Enabling the edge changes NGA's ability to share critical resources, data to facilitate user access meets NGA's mission needs, and support the IC and Department of Defense as a whole.

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



FEATURED SPEAKER: Chris Bailey, Director Us National Security, AWS | Timmy Richardson, Cloud Innovation Architect, NGA

WPS204 

Building a Governance, Risk and Compliance Strategy with AWS

FOCUS ON

COMPLIANCE

In this session, learn how Dr. Julia Lane, Director of the Administrative Data Research Facility (ADRF) at NYU, used AWS and AWS Public Sector Partner Earthling Security to build a software-as-a-service (SaaS) research and analysis environment that hosts sensitive U.S. Census Bureau data. The ADRF hosts almost 50 confidential government data sets from 12 different agencies at all levels of government. The ADRF chose AWS to meet strict security and governance requirements such as FedRAMP compliance, ease of implementation, and robust native security. AWS provided NYU a complete set of infrastructure, application, and security services perfectly suited for U.S. government requirements. In addition, AWS discusses how these principles and practices can be applied to an organization's governance, risk, and compliance needs.

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



FEATURED SPEAKERS: Jennifer Gray, Senior manager, AWS Security | Tim Anderson, Senior Program Manager, AWS | Dr. Julia Lane, Director ADRF, NYU | Yusuf H Ahmend, CEO, Earthling Security

CTD202 

Deploy Live Video and Machine Learning for Rapid Decision-Making & Budget Efficiency

FEATURING

USAF & WiSC Enterprises Inc.

If public sector readiness relies on technology, the tools that analysts rely on must be mission-critical ready for engagement at all times. In this session, we discuss the success at the USD(I)-governed and NGA-led 2018 Enterprise Challenge event: Enabling the Department of Defense (DoD) and Intelligence Communities (IC) Full Motion Video (FMV) workflows from the ground to the cloud and enhancing situational awareness and actionable intelligence gathering. Learn how to improve processing, exploitation, and dissemination (PED), and apply these concepts in connected and disconnected environments with the latest machine learning services, such as object-detection and audio transcription. This session incorporates AWS Elemental Live, AWS Elemental MediaLive, AWS Elemental MediaPackage, Amazon Rekognition, Amazon Transcribe.

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



FEATURED SPEAKER: Kate Werling - Solutions Architect, AWS | Matt Carter - Senior Solutions Architect, AWS | John Bordner - Senior ISR Analyst, WiSC Enterprises Inc. | Patrisha Knight - NGA Officer, USAF

CTD204  

“All the World’s a Stage” - Enriching Mind and Body with Educational OTT Videos

FOCUS ON

AWS ELEMENTAL

You do not have to be a big media company to build your own OTT video workflow. Learn how a university created a live streaming workflow using AWS Elemental to reach hundreds of schools with educational events. Within months, students and staff from the university were able to build, test and successfully broadcast in high quality to thousands of students. And from mind to body. Learn how a home-exercise video company provides millions of customers on-demand video, with scalable, resilient, pay-as-you-go transcoding and delivery from AWS.

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



FEATURED SPEAKERS: Vivek Bhat - Principal Product Manager, AWS Elemental | Kevin Moore - Product Manager, AWS Elemental

BAP201

Securely Deliver Desktop Applications with Amazon AppStream 2.0

FOCUS ON

AMAZON APPSTREAM 2.0

In this session, learn how to provide your users with instant access to critical desktop applications through a browser on any computer. We present an overview of Amazon AppStream 2.0, a fully managed application streaming service, and walk through common application streaming use cases for enterprises, ISVs, 3D design and engineering firms, and educational institutions. We close with a simple walk through to help you get started.

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



FEATURED SPEAKERS: Deepak Suryanarayanan - Senior Manager, AWS | Julien Desmetre - Team Leader, VEOLIA | Suchit Jain, VP, Dassault Systemes SolidWorks Corporation

DVC203

ProTips for Scaling AWS Training to Accelerate Adoption

FEATURING

A CLOUD GURU

Learn the tips, techniques, and tricks for accelerating your team's cloud transformation with an education framework that scales. As director of cloud engineering at Capital One, Drew Firment founded a cloud engineering college that was integrated within a Cloud Center of Excellence. As the Dean of Cloud Computing, Drew earned a patent for measuring cloud maturity and demonstrated how cloud education program can accelerate adoption. Come to this session to hear key lessons from his experience, and learn how to apply the framework to your organization's cloud transformation journey.

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



FEATURED SPEAKERS: Drew Firment - SVP Strategic Partnerships, A Cloud Guru

STG207-S 

How UCSD Simplified Data Protection with Rubrik and AWS

FEATURING

UNIVERSITY OF CALIFORNIA SAN DIEGO

Are you dealing with legacy system complexities when integrating your backup and recovery solution with the cloud? Rubrik can help you simplify data protection with its policy-based backup, recovery, and archival capabilities for hybrid applications. In this session, learn how University of California San Diego (UCSD) leverages Rubrik and AWS to help simplify data protection, achieve rapid data recovery, and scale for data growth. Join us to learn how UCSD replaced expensive and unreliable backup tapes with AWS storage, and how to move data to AWS and protect your cloud-native workloads running on AWS. This session is brought to you by AWS partner, Rubrik.

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



FEATURED SPEAKERS: Kenneth Hui – Solutions Architect, Rubrik | John Iraci – Director Computing Infrastructure, UC San Diego

CMP204-S

How to Effectively Plan for Disaster Recovery on AWS

FOCUS ON

DISASTER RECOVERY

Although the AWS Cloud provides a new level of durability and resiliency, no workload is immune to disasters—be it due to accidental reasons or malicious intent. Even in the cloud, you have to ensure continuity. Traditional disaster recovery (DR) solutions are not optimized for the cloud and often result in higher costs, increased complexity, and operational challenges. To maintain compliance and business continuity service-level agreements, AWS DR planning requires a completely different approach to deal with cross-account, cross-region workload testing and failover. In this session, learn how you can set up an effective DR plan for your AWS environments. This session is brought to you by AWS partner, Druva.

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



FEATURED SPEAKERS: Lewis Franklin – Cloud Architect, Zebra Technologies | David Gildea – VP, Cloud Ranger, A Druva Company

ARC209- R 

Repeat available

Architecture Patterns for Multi-Region Active-Active Applications

FEATURING

CHICK-FIL-A

Do you need your applications to extend across multiple regions? Whether for disaster recovery, data sovereignty, data locality, or extremely high availability, many AWS customers choose to deploy services across regions. Join us as we explore how to design and succeed with active-active multi-region architectures.

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



FEATURED SPEAKERS: Amy Che – Principal Solutions Delivery Manager, AWS | Darin Briskman – Chief Evangelist, AWS | Christopher Lane – Enterprise Architect, Chick-fil-A

DAT317 

Best Practices for Running Oracle Databases on Amazon RDS

SPONSORED SESSION FEATURING

UK MINISTRY OF JUSTICE

Amazon Relational Database Service (Amazon RDS) continues to be a popular choice for Oracle DBAs moving new and legacy workloads to the cloud. In this session, we discuss how Amazon RDS for Oracle helps DBAs focus their time where it matters most. We cover recent RDS Oracle features, and we go deep on key functionality that enables license optimization, performance, and high availability for Oracle databases. We also hear directly from an AWS customer about their journey to Amazon RDS and the best practices that helped make their move successful.

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



FEATURED SPEAKERS: Michael Barras – Senior Database Engineer, AWS | Phil Eedes – Technical Architect, UK Ministry of Justice

SEC311-S 

AWS and Symantec: Cyber Defense at Scale

FEATURING

SYMANTEC CORPORATION

Learn how Symantec is leveraging AWS to deliver Managed Security Services (MSS) to protect companies and governments from hackers. Get a peek under the hood into how Symantec collects and processes hundreds of billions of logs every day to detect the world's most sophisticated cyber attacks. And learn how to prevent these attacks by integrating Symantec Cloud Workload Protection (CWP) with DevOps to protect applications, harden containers, and secure data in Amazon S3. This session is brought to you by AWS partner, Symantec Corporation.

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



FEATURED SPEAKERS: Clint Sand – VP, Product Management, Symantec | Kevin Stultz, Director of Product Management, Symantec

ANT209-S

A New Approach for Security & Compliance Success in the Cloud

FEATURING

SUMO LOGIC

Today's CISOs are focused on moving their organization's "lifting and shifting" infrastructures, resources, and workloads to the cloud. Many also realize that legacy tools and practices in managing security and compliance don't lift and shift as easily. In this session, we explore current industry trends, security technology trends, lessons learned, and best practices from organizations who have been there, done that, and continue to thrive. Learn about the security, compliance, and operations considerations organizations face as they move, manage, and scale their critical applications and resources to AWS. Hear insights from security leaders about how they leverage AWS and Sumo Logic Security Analytics and solutions to get a real-time visibility to substantially reduce MTTI and MTTR to potential threats. This session is brought to you by AWS partner, Sumo Logic.

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



FEATURED SPEAKERS: Dave Frampton – VP Security Solutions, Sumo Logic

HLC301-i

Architecting for Healthcare Compliance on AWS

FOCUS ON

HEALTHCARE COMPLIANCE

In this session, learn how to architect for AWS for healthcare compliance. Join Pat Combes, AWS Healthcare Technical Lead, and hear the latest on AWS HIPAA-Eligible Services, European General Data Protection Regulation (GDPR), and ISO 13485. Learn about some general patterns and common architectures that you can use to decouple protected data from processing and orchestration. Understand how to track where data flows through automation, and learn how to have logical boundaries between protected and general workflows.

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



FEATURED SPEAKERS: Pat Combes – WW Technical Leader, HCLS | Mithun Mallick – Senior Solutions Architect, AWS | Philip Christensen – Senior Solutions Architect, Logicworks

HLC302-S-i

Automating Compliance on AWS

FEATURING

CLOUDTICITY

Maintaining a compliant environment is critical for regulated industries such as healthcare, but with the advent of GDPR and other regional data privacy frameworks, compliance is becoming just another cost of doing business. In this session, we dive deep into how Cloudticity built the Cloudticity Oxygen managed services framework as an example of what a compliance framework looks like and how maintaining a compliant posture—and being able to prove that to auditors and regulators—can and should be a native part of your infrastructure. Compliance doesn't need to be something you add on. It should be deeply ingrained in your environment. Learn specific AWS services and techniques to track and maintain compliance in a fully automated manner directly from Cloudticity's founder. This session is brought to you by AWS partner, Cloudticity.

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



FEATURED SPEAKERS: Gerry Miller – Founder & CEO, Cloudticity

DAT325 

How Oath (a Verizon Company) Built a Multi-Region GDPR Application with Amazon DynamoDB

FOCUS ON

GDPR COMPLIANCE

As Oath, a Verizon company, prepared for GDPR compliance during integration of AOL and Yahoo! Internet properties, a global user consent and terms of service application was developed and deployed. The cloud-native service was deployed across multiple AWS Regions globally and leveraged Amazon DynamoDB global tables to enable data synchronization. The service was launched in April 2018, scaling to meet the needs of hundreds of millions of Oath users. Come to this session to learn more about how Oath was able to accomplish all of this.

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

 **FEATURED SPEAKERS:** Suneel Joshi – Senior Technical Account Manager, AWS | Jon McCamant – Senior Solutions Deliver Manager, AWS | Mika Mannermaa – VP Architect, Oath

WPT201   

We Power Tech: Lightning Talks with Executive Women in Tech

FOCUS ON

WOMEN IN TECH

Diversity in technology often starts with a focus on women. How do we prioritize the inclusion of women from all communities (race, gender identity, ability status, and other underrepresented and intersectional communities) on technical teams? What can leaders do—from cultivating the pipeline, to hiring, to developing internal strategies—to make the future of tech more diverse and inclusive? Hear from successful executive technical leaders as they explore their journeys through the industry. Leave with solutions on how to prioritize inclusion and drive results.

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

 **FEATURED SPEAKERS:** Teresa Carlson – VP, Worldwide Public Sector, AWS | Wanda Scott-Chief Learning Officer, Simple Technology Solutions | Angeliqe Faustino – Global Head of Analytics Platform Technology, Refinitiv | Kimberly Bartoe – VP, Entity Analytics, Novetta

WPT202   

We Power Tech: Everyday Actions to be a Better Ally

FOCUS ON

DIVERSITY & INCLUSION

Have you ever thought, "I care about a more diverse and inclusive workplace, but what can I do? I'm not the VP of HR or Head of Diversity & Inclusion at my company." If so, you're not alone. Knowing how to be a better ally for underrepresented people working in tech is unfamiliar territory for many of us. Yet, there are everyday actions we can take to create a more diverse and inclusive culture. Come to this session to learn about key challenges women and underrepresented minorities face in our tech workplaces and ways you can make a difference. Learn tips on how to sponsor, champion, amplify, and advocate for all.

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

 **FEATURED SPEAKERS:** Karen Catlin – Founder, Karen Catlin Consulting

WPT203   

Addressing Intersectionality in Tech

FOCUS ON

DIVERSITY & INCLUSION

When diversity efforts focus only on gender, they further marginalize the marginalized. How do we make sure that we address the needs of everyone that is underrepresented in the industry? Are we reaching our marginalized customers? What can we do to provide a platform for those voices to be heard and support their efforts. In this session, we hear from technical leaders on the best ways to work with and include marginalized communities.

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

 **FEATURED SPEAKERS:** Brandon Marin – CPO, Wavio | Tanusree McCabe – Architect, Capital One | Rupa Ganesh – AWS Practice Lead India Accenture | Keshia Williams – Software Engineering Manager, Chick-fil-A

WPT204   

The Important Role White Men Play in Creating a Culture of Full Inclusion

FOCUS ON

DIVERSITY & INCLUSION

Everyone has a role to play in creating and sustaining an inclusive work environment, but white men often opt out of, or are excluded from, diversity and inclusion efforts because the focus is on underrepresented groups. When white men are fully engaged in diversity efforts, they can help effect change at every level, and they also benefit from a healthy, inclusive workspace. Participants explore assumptions regarding white men, diversity, and leadership that impact behavior and shape the work environment, and they identify the next steps they can take to become fully inclusive partners working across differences to foster an equitable workplace culture.

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



FEATURED SPEAKER: Dr. Michael Welp – Co-Founder, White Men as Full Diversity Partners

BAP211 

Amazon WorkSpaces for Regulated Industries

FEATURING

BRIDGEWATER ASSOCIATES

In this session, we discuss how customers in regulated industries like government, finance, and life sciences can use Amazon WorkSpaces to help meet security and regulatory compliance requirements for user applications and devices. Organizations who have to deal with various regulatory and security requirements (such as HIPAA, PCI, ITAR, and FedRAMP) have to consider how and where their users access applications and store data. In this session, we discuss how Amazon WorkSpaces can help you meet these unique requirements and help provide users throughout your organization with secure, fast access to desktop applications and data.

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



FEATURED SPEAKERS: Justin Stokes – Sr EUC Specialized SA, AWS | Andrew Wood – Specialist Solutions Architect, AWS | Eric Jones – Sr Product Manager, AWS | Bill Jacobi – Sr. SA – Enterprise Apps, AWS | Ron Bledsoe – Sr. Engineer, Bridgewater Associates

WPS318

Implement Enterprise Records Management Policies on your AWS Data Lake

FEATURING

FINRA

Records management is a requirement in almost every industry. Whether it is one, thirty, or a hundred years, it requires a disciplined process to ensure accuracy and compliance. Now that you have your data moved into AWS, how do you ensure that it isn't removed by mistake? How do you know when your data has transitioned into an archive state? In this session, we explore the challenges of records management in data lakes and how to address them within your organization. Learn how to automate the process for compliance and audit using a solution of combined AWS services, including AWS Step Functions, AWS Lambda, Amazon DynamoDB, and AWS CloudTrail. Hear from an AWS customer who solved this challenge for their highly regulated industry..

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



FEATURED SPEAKERS: Dan Blaner – Sr. Solutions Architect, AWS | Robert Kissell – Principal Solutions Architect, AWS | Nathan Weisz – IT Director, FINRA

WPS320 

HOT Lanes to the AWS Cloud: Optimize Network Design for AWS GovCloud (US)

FEATURING

VERIZON FEDERAL

The information superhighway is huge, complex, and often congested with traffic, especially to the cloud. Frustrated end users experience latency due to BGP and IP congestion, even on private networks like AWS Direct Connect. In this chalk talk, Verizon and AWS offer a tutorial on how best to design an optimal network, even for FedRAMP, IL 4-5, CJIS, and HIPAA compliance. Come armed with questions, and learn how this team created a successful network architecture optimized for cloud.

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



FEATURED SPEAKERS: John Mackinnon – WWPS Telecom Partner Manager, AWS | David Cruley – Manager WWPS Specialists Team, AWS | Lamont Copeland – Senior Manager of Architecture Verizon Federal, Verizon

WPS314

Machine Learning & Analytics on Snowball Edge

FOCUS ON

SNOWBALL EDGE

In this chalk talk, we discuss building models using Amazon SageMaker and deploying them on to AWS Snowball Edge devices. Then we walk through how you can run analytics on the edge using Jupyter Notebooks to explore the raw data and model output data. Snowball Edge now supports Amazon EC2 and has 90 TB of storage plus 750 GB SSD attached to a virtual machine equivalent to an m4.4xlarge instance. Running machine learning (ML) models on Snowball makes it easy to process and store data in the field, and allows you to explore the data in real time without cloud connectivity. Once you have connectivity restored, you can upload the data to Amazon S3 for advance analytics and data exploration.

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



FEATURED SPEAKERS: Kate Werling – Solutions Architect, AWS | Brad Kenstler – Data Scientist II, AWS

WPS311 N G

Private Network Connectivity: Connecting AWS into Public Sector Networks

FEATURING

NHS BSA

Many countries operate separate, private networks for use purely by public sector organizations, which historically have hindered use of the public cloud. In this session, we examine the different architectures available to bridge this gap and answer questions that attendees might have, using examples from the UK and beyond.

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



FEATURED SPEAKERS: Mario Vlachakis – Solutions Architect, AWS | Charlie Llewellyn – Solutions Architect, AWS | Chris Suter – National Health Service Business Services Authority

AIM347 E G

Detecting Financial Market Manipulation Using Machine Learning

FOCUS ON

SURVEILLANCE

Researchers from the University of Michigan and Georgia Tech, in collaboration with the AWS Research Initiative, have developed new techniques to identify financial market manipulation in high-volume, high-velocity market data streams. They are using a combination of data-driven and model-based techniques to identify financial market manipulation. In this session, we discuss the use of machine learning using Amazon SageMaker to study, process, and analyze huge volumes of data to prevent financial market manipulation.

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



FEATURED SPEAKER: Sanjay Padhi - AWS Research, Amazon Web Services

AIM422

Fraud Detection and Prevention using Amazon SageMaker and Amazon Neptune

FOCUS ON

MACHINE LEARNING

Business fraud is a growing concern across online and offline transactions. In this chalk talk, we dive into detecting fraud using machine learning with Amazon SageMaker and Amazon Neptune. We discuss the details of building models, such as class imbalance. We also discuss the different costs of false positives and false negatives. Additionally, we talk about algorithms like Linear Learners that can be used to build healthy models in such scenarios.

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



FEATURED SPEAKER: Abhishek Mishra - Solutions Architect, AWS

WPS326 **AWS Public Data Sets: How to Stage Petabytes of Data for Analysis in AWS**

FEATURING

COMMON CRAWL

AWS hosts a variety of public data sets that anyone can access for free. Previously, large data sets such as satellite imagery or genomic data have required hours or days to locate, download, customize, and analyze. When data is made publicly available on AWS, anyone can analyze any volume of data without downloading or storing it themselves. In this session, the AWS Open Data Team shares tips and tricks, patterns and anti-patterns, and tools to help you effectively stage your data for analysis in the cloud.

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



FEATURED SPEAKERS: David Rocamora – Solutions Architect, AWS | Jed Sundwall – Manager, AWS Open Data | Sebastian Nagel – Crawl Engineer, Common Crawl

WPS310 **Amazon WorkSpaces for Regulated Industries**

FEATURING

URBAN INSTITUTE

The Urban Institute chose a cloud-first strategy with AWS to increase the capacity and performance of big data and high-performance computing workloads for 300+ researchers. In this chalk talk, we demonstrate how our team piloted the execution of one of our signature microsimulation models in parallel, designing a new architecture in the cloud that required minimal changes to the original model's source code. We also show how our team worked directly with AWS to develop open source code that launches powerful Amazon Elastic MapReduce (Amazon EMR) Spark clusters with minimal setup time, and combined it with our Elastic Cloud Computing Environment to allow for a simple Spark user experience.

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



FEATURED SPEAKERS: Rodney Grilli – Principal Consultant, AWS | Graham MacDonald – Chief Data Scientist, Urban Institute

WPS313 **Machine Learning for Improving Disaster Management & Response**

FEATURING

KANSAS STATE UNIVERSITY

In this session, we start with Twitter data from a past disaster and use Amazon Comprehend to discover insights and relationships. Finally, we use Amazon SNS to notify iOS, Android, and Fire OS-based mobile devices.

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



FEATURED SPEAKER: Sanjay Padhi – AWS Research, AWS | Doina Caragea – Professor, Kansas State University

WPS325 **Design Continuous Authorization for Rapid Delivery of Mission-Critical Services**

FEATURING

DHS USCIS

In this chalk talk, we focus on how to model teams, processes, and tools to achieve a secure CI/CD pipeline that results in continuously compliant and authorized services. We look at how public sector organizations such as the United States Customs and Immigration Services (USCIS) were able to successfully implement these novel capabilities for mission-critical workloads. Then, AWS and USCIS models those best practice designs, processes, and tools with participants in an interactive whiteboard session. We walk through deconstructing monolith services and processes, plus employing designs such as containers, microservices, and CI/CD tools to achieve success.

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



FEATURED SPEAKERS: Tim Anderson – Sr. Program Manager, AWS | Rob Brown, Chief Enterprise Architect, Department of Homeland Security US Citizenship and Immigration Services

WPS337 

Pushing Amazon RDS to the Limit

FOCUS ON

AMAZON RDS

Is Amazon EC2 the only option for your legacy customized Oracle DB on AWS? Do you want to move your legacy Oracle DB on AWS but are not sure that Amazon RDS can handle all custom developments you have on top of your business-critical database? In this session, we discuss how Amazon RDS for Oracle can be leveraged to accommodate specifics of your legacy database in the cloud. We discuss when and how to choose between Amazon EC2 and Amazon RDS scenarios. We outline remediation and migration steps for Amazon RDS, and we share practice-proven experience on providing FTP, SMTP from Amazon RDS. We discuss instance sizing and optimization and hybrid configurations of Amazon RDS and old Oracle DBs staying on-premises.

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



FEATURED SPEAKERS: Mike Revitt, Global Database Specialist, AWS | Laurence Barea – Software Consultant, Bit Consulting

AIM310  

How Emory University Built an NLP Platform Using Apache MXNet and Gluon

FEATURING

EMORY UNIVERSITY

Building natural language processing (NLP) models just got easier and faster. Join us for a discussion with Emory University on implementing state-of-the-art NLP models using Apache MXNet and GluonNLP. Emory University shares best practices and key takeaways from developing their Evolution of Language and Information Technology (ELIT) platform on top of GluonNLP.

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



FEATURED SPEAKERS: Sheng Zha – Sr. Applied Scientist | Sukwon Kim, Sr. Product Manager, AWS | Gary Lai – PhD Student, Emory University | Jinho Choi – Assistant Professor, Emory University

LFS310  

Can Deep Learning Be Used to Treat Disease and Measure Product Value?

FEATURING

BRAIN POWER

How do you really know if someone is paying attention? There has never been an automated measure of body language. Body language doesn't just tell you if someone is paying attention, it can also provide biomarkers of brain diseases or differences. In this session hear from Dr. Ned Sahin, a neuroscientist who has invented AI/ML methods to measure body language and mental-health biomarkers at a distance, for both clinical and business applications. He founded Brain Power to create AI systems to teach children with autism and other conditions how to better engage and socialize. He will show how you can more broadly apply a combination of Amazon Rekognition, Amazon Kinesis, and AWS DeepLens to analyze streaming video in real-time to measure audience attention to your content including movies, ads, TV shows, video games, political campaigns, speeches, online courses, or classroom teaching.

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



FEATURED SPEAKERS: Elizabeth Boudreau – Executive Advisor, AWS Professional Services | Ned Sahin – CEO, Brain Power LLC | Runpeng Liu – Principal Software Engineer, Brain Power LLC

CTD408 

Insights into the Government Glass-to-Glass Video Workflows

FOCUS ON

DATA PROCESSING

Data processing, exploitation, and dissemination (PED) is mission-critical for warfighters and analysts. Video data in particular can yield vital information and context, and government agencies spend millions of dollars annually gathering it. Yet extracting the full intelligence potential of the data during the PED process has proven to be a challenge due to error-prone and bandwidth-constrained networks, as well as overall poor image quality. Join the team that built the glass-to-glass workflow for the USD(I)-governed and NGA-led 2018 Enterprise Challenge event, showcasing HD contribution feeds using ruggedized small form factor encoders in the field, ingesting feeds into the AWS Cloud for packaging, and delivering to multiscreen devices to improve intelligence gathering for the warfighter... (read more in the link below).

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



FEATURED SPEAKERS: Kevin Moore – AWS Elemental PM Dir-Live, AWS | Kate Werling, Solutions Architect, AWS | Matt Carter – Sr. Solutions Architect, AWS | Mike Callahan – Sr. Director of Solutions Marketing, AWS Elemental

BAP411

Integrate Amazon WorkDocs with Security & Compliance Solutions & Applications

FOCUS ON

AMAZON WORKDOCS

File collaboration and management services don't exist in a vacuum. They need to work well with other applications. The Amazon WorkDocs SDK enables you to use file collaboration and management capabilities with your existing compliance solutions and end-user applications by providing full administrator and user-level access to Amazon WorkDocs site resources. In this chalk talk, we describe how to use Amazon WorkDocs to integrate with your compliance solutions and end-user applications.

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



FEATURED SPEAKERS: MD Donthi – Sr. Manager Engineering, AWS

Repeat available

ENT233

How Enterprises are Modernizing Their Security, Risk Management, & Compliance Strategy

FOCUS ON

SECURITY & COMPLIANCE

Many organizations view security and risk & compliance functions as blockers to innovation. This chalk talk identifies the changes that are needed in executive engagement, budgeting, skills planning, and resource allocation to transform these perceived blockers into partners for innovation. We walk through an approach which can be used to address enterprise-level security, risk management, and compliance strategy. In addition, we share some key security & risk lessons from early enterprise adopters of AWS

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



FEATURED SPEAKERS: David McDermitt – Cloud Executive Advisor, AWS | Misty Haddox – Senior Consultant, AWS Professional Services

SEC206



GDPR Readiness & Management

FOCUS ON

GDPR

In this session, compliance leads discuss the EU's General Data Protection Regulation (GDPR), and share experiences and details on AWS readiness for GDPR, as well as considerations for your environment.

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



FEATURED SPEAKERS: Max Ramsay – Sr. Manager, Security Assurance, AWS | Chris Gile – Sr. Manager Security Assurance, AWS | Oliver Bell – Head of Security Regulatory Affairs, AWS

SEC373



Building Support for Compliance

FOCUS ON

COMPLIANCE

Many customers operate compliant systems on the AWS Cloud. In this session, learn how to satisfy your internal and external audit teams with the AWS services, AWS Artifact and AWS Config. Whether it is PCI DSS, HIPAA, or GDPR, expect to find the tools you need to help you achieve your compliance obligations.

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



FEATURED SPEAKERS: Scott Paddock – Sr. Solutions Architect, AWS Solutions Architecture | Amol Snagle – Sr. Security Solutions Architect, AWS

WPS309

Repeat available

Build an Amazon EMR-Based Data Science Environment for Highly Sensitive Data

FOCUS ON

DATA SCIENCE

In this session, learn how to build a data science environment based on Amazon EMR that can process highly sensitive data in a secure manner. We explain how to secure the OS, perform logging, auditing, and use encryption to meet stringent NIST 800-53 security standards. In addition, we walk through and demonstrate the build of an EMR cluster intended to process highly sensitive data. Attendees see the cluster being built and observe how various AWS services further secure the cluster. Attendees also see an AWS CloudFormation script that ultimately automates the process. In addition, we demonstrate how to lock down the OS and enable logging and auditing to further protect the data and system. Finally, we walk through which NIST 800-53 controls are satisfied in this cluster configuration and how you can build this yourself.

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



FEATURED SPEAKERS: Mike Kroese – Solutions Architect, AWS

WPS316

Repeat available

Use Sentiment Analysis of Social Media Posts to Gauge Public Opinion

FOCUS ON

AMAZON COMPREHEND

In this hands-on session, you use the natural language processing service, Amazon Comprehend, to extract key phrases, entities, topics, and sentiment from social media posts about government agency programs, such as TSA PreCheck, upcoming public transit initiatives, and the next NASA Mars rover mission. You then use the results to estimate the overall public opinion about each program.

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



FEATURED SPEAKERS: Al Belsky – Sr. Solutions Engineer, Amazon | Kiran Bakshi – Consultant, AWS | Hannah Marlowe – Big Data Consultant, AWS

WPS308

Repeat available

On-Demand Enterprise IT Environments, from Desktops to Servers

FOCUS ON

IT ENVIRONMENTS

Oftentimes, customer systems need to be developed and tested in an environment where they need to interact with an enterprise desktop baseline or with long-standing corporate systems, such as Microsoft Active Directory, Microsoft Exchange, and Microsoft SharePoint. Attend this session to learn how to build and automate a fully functional, in-the-cloud lab environment using Amazon WorkSpaces and Microsoft enterprise applications, like Active Directory, Exchange, and SharePoint, to enable customers to develop and test their applications and services in a temporary lab environment that can be modeled after the production environment.

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



FEATURED SPEAKERS: Michael Mattes – Solutions Architect, AWS

WPS301

Repeat available

Extract Insights from Text Using Amazon Comprehend and Amazon Sage Maker

FOCUS ON

AMAZON SAGEMAKER

In this hands-on session, you learn how to use the natural language processing service, Amazon Comprehend, to model topics from textual data, including news articles and internal business documents. You also learn how to use Amazon SageMaker to train, build, and deploy an unsupervised Neural Topic Model (NTM) to identify topics shared by documents within a specialized text corpus. Topic modeling results can then be used to drive content recommendations for related documents or to index and search a large collection of data based on the learned topic identification.

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



FEATURED SPEAKERS: Tony Nguyen – Senior Big Data Consultant, AWS | Kiran Bakshi, Consultant, AWS | Hannah Marlowe – Big Data Consultant, AWS

WPS306

Repeat available

Identify & Address Query Performance Issues in Aurora

FOCUS ON

AMAZON AURORA

In this session, we discuss and demonstrate techniques and tools for identifying expensive queries as well as strategies for improving performance. The intended audience is developers, DBAs, and DBEs who are using Amazon Aurora or considering it.

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



FEATURED SPEAKERS: David Nef – Solutions Architect, AWS

WPS302

Repeat available

Best Practices for Working with Large-Scale Geospatial Imagery

FOCUS ON

GEOSPATIAL IMAGERY

Across the commercial and public sectors, companies are working with large geospatial datasets. In this session, we review how to use various services, including Amazon S3, Amazon Glacier, Amazon Athena, AWS Batch, and AWS Step Functions to store, process, and get insights into your large geospatial datasets.

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



FEATURED SPEAKERS: Joe Flasher – Open Geospatial Data Lead, AWS

WPS201

Repeat available

Build a Genome Clustering Model with Amazon SageMaker

FOCUS ON

GENOME CLUSTERING

The development and application of machine learning (ML) models is a vital part of scientific and technical computing. Increasing model training data size generally improves model prediction and performance, but deploying models at scale is a challenge. Participants in this builder session learn to use Amazon SageMaker, an AWS service that simplifies the ML process and enables training on cloud-stored datasets at any scale. Attendees walk through the process of building a model, training it, and applying it for prediction against large open scientific datasets, such as the 1000 Genomes data. By the end of the session, attendees have the resources and experience to start using Amazon SageMaker and related AWS services to accelerate their scientific research and time to discovery.

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



FEATURED SPEAKERS: Lee Pang – Genomics Specialist Solutions Architect, AWS

WPS317

Repeat available

Fraud Detection with Amazon Neptune

FOCUS ON

AMAZON NEPTUNE

Graph databases offer a way to leverage the connectedness of your data and simplify the identification of underlying patterns. A strong use case for graph databases is to identify complex patterns of fraud that can be difficult to uncover in traditional relational database representations. In this hands-on session, you leverage the fully managed graph database service, Amazon Neptune, to identify fraudulent activity in highly connected data. You will also learn how to utilize a partner solution by Tom Sawyer Software, in concert with your graph data in Amazon Neptune, to create applications with enterprise-class data visualizations and analytics.

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



FEATURED SPEAKERS: Mark Burr – Senior Consultant, AWS | Tony Nguyen – Senior Big Data Consultant, AWS

WPS312

Repeat available

Build a Video Recommendation Engine with Amazon Transcribe, Amazon Comprehend, and Amazon Neptune

FOCUS ON

MACHINE LEARNING

In this hands-on session, you learn how to build a video recommendation engine by leveraging Amazon machine learning services and the fully managed graph database service, Amazon Neptune. You use Amazon Transcribe and the natural language processing service, Amazon Comprehend, to transcribe and extract metadata, such as key phrases, entities, topics, and sentiment from video blogs. The resulting connected metadata is organized into a Neptune graph database and used to drive recommendations for related videos.

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



FEATURED SPEAKERS: Al Belsky – Sr. Solutions Engineer, AWS | Tony Nguyen – Sr. Big Data Consultant, AWS | Hannah Marlowe – Big Data Consultant, AWS

DEV347

Repeat available



DevOps Concepts for Data Science

FOCUS ON

DEVOPS

DevOps and Data Science? How does that work? In software teams where innovation is a priority, DevOps can be an accelerator. In data science and machine learning, there are a number of factors that increase complexity of systems and thus the complexity of DevOps. This session will touch on fundamental concepts in data science such as data management, ETL, modeling, and model validation, and open discussion around some ways that common tools and processes can be used to decouple and stabilize workflows to accelerate research.

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



FEATURED SPEAKERS: Emily Soward – Research Computing Consultant, AWS | Emil Lerch – Principal Consultant, AWS

SEC336

Repeat available



Aligning to the NIST Cybersecurity Framework in the AWS Cloud

FOCUS ON

NIST CYBERSECURITY

The NIST Cybersecurity Framework (CSF) has been endorsed by government and industry as a recommended baseline for use by any organization, regardless of sector or size, to implement risk management best practices and achieve desired security outcomes. In this chalk talk, we discuss how organizations can use AWS to align to the CSF by providing a detailed breakout of AWS services and associated customer responsibilities (security in the cloud) and AWS responsibilities (security of the cloud).

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



FEATURED SPEAKERS: Min Hyun – Head of Global Affairs, AWS

ANT346

Lock it Down: Configure End-to-End Security & Access Control on Amazon EMR

FOCUS ON

SECURITY & AMAZON EMR

Amazon EMR helps you process all your data for analytics, but with great scale comes great responsibility—you need to make sure that data is secured by design. In this builders session, we walk through how to configure your environment to take full advantage of comprehensive security controls: including identifying sensitive data, encrypting your data and managing keys, authenticating and authorizing users, utilizing fine-grained access controls, and using audit logs to demonstrate compliance.

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



FEATURED SPEAKERS: Mert Hocanin – Big Data Architect, AWS | Christopher Bozeman – Software Development Manager, AWS

DEM03 

Architecting DevSecOps: Advanced Cyber Security for AWS

FOCUS ON

DEVSECOPS

Assets in the cloud can be vulnerable to cyberattacks. While cloud providers protect the cloud fabric and maintain the availability of cloud services, it is up to each customer to secure any and all data, workloads, and other assets that they place in the cloud. Check Point CloudGuard delivers unprecedented protection against even the most sophisticated fifth-generation cyberattacks that target cloud networks in a dynamic and elastic package specifically designed for AWS cloud environments. Join us to learn how organizations around the world are leveraging Check Point CloudGuard in AWS to achieve true DevSecOps at speed and scale. This presentation is brought to you by AWS partner, Check Point Software Technologies.

[Link to session](#) | [Demo session](#)



FEATURED SPEAKERS: Yariv Fishman – Head of Product Management Cloud Security, Check Point

DEM37

Take the Next Step in Cloud Security - Total Compliance

FOCUS ON

COMPLIANCE

Enterprises need to focus on their core competencies, so it can be hard to track the status of multiple individual regulations—HIPAA, PCI DSS, DFARS, and more—yet that is precisely what's required to ensure compliance. If there's a failed audit, or worse a security incident, the penalties for non-compliance can be severe, running up to millions of dollars. These fees are on top of the cost of a security breach. To guard against threats, organizations must continuously log, audit, and protect their environments. In this session, learn how to make your cloud infrastructure audit-ready for 35 regulatory standards using cloud management software. This presentation is brought to you by AWS partner, CloudCheckr.

[Link to session](#) | [Demo session](#)



FEATURED SPEAKER: Eric Morrissey – Solutions Engineer, Cloudcheckr

DEM38

Enhance Your Application Security Strategy

FOCUS ON

SECURITY

In this session, we share with you our research about lessons learned from a decade of data breaches. Find out how to leverage automated learning capabilities to prevent even the most sophisticated attacks on your data. Learn how you can safeguard your data, meet compliance regulations, and establish ongoing protection for your cloud workloads. Gain insights on key application and architecture considerations for picking the right WAF. This presentation is brought to you by AWS partner, F5 Networks.

[Link to session](#) | [Demo session](#)



FEATURED SPEAKERS: Nathan McKay – Security Solutions Marketing Manager, F5 Networks

DEM35 

Opportunistic Hacks & Persistent Attacks: Preparing for 2019

FOCUS ON

THREAT INTELLIGENCE

The attack landscape shifted in 2018 with increased automation and cunning new distribution methods. The good news is that recent threat intelligence can tell us what we can do to better defend our cloud, on-premises, and hybrid environments. Alert Logic analyzed over 152 petabytes of data from across 4,000 clients to identify 2018's key attack indicators and insights. Join us to understand how the attack surface has shifted in 2018 and where attackers might be headed in 2019. This presentation is brought to you by AWS partner, Alert Logic.

[Link to session](#) | [Demo session](#)



FEATURED SPEAKER: Matt Selheimer - Chief Strategist, Alert Logic

WPS206 

Executive Security Simulation Workshop

FOCUS ON

SECURITY & COMPLIANCE

The Executive Security Simulation takes senior security management and IT/business executive teams through an experiential exercise that illuminates key decision points for a successful and secure cloud journey. During this team-based, game-like competitive simulation, participants leverage an industry case study to make strategic security, risk, and compliance time-based decisions and investments. Participants experience the impact of these investments and decisions on the critical aspects of their secure cloud adoption. Join this workshop to gain an understanding of the major success factors to lead security, risk, and compliance in the cloud, and learn applicable decision and investment approaches to specific secure cloud adoption journeys. AWS facilitators translate lessons learned in the simulation into real-life examples and practical advice for your team.

[Link to session](#) | [Workshop](#)



FEATURED SPEAKERS: Tim Anderson – Sr. Program Manager, AWS | Michael South – Americas Regional Leader, AWS

WPS307 

DevSecOps: Instituting Cultural Transformation for Public Sector Organizations

FOCUS ON

CULTURAL TRANSFORMATION

In this in-depth, interactive workshop, we examine how different public sector customers achieve this shift and analyze common success patterns. We address key points such as continuous compliance, integrating security, and removing people from the data to vastly improve the organization's security posture over traditional operating models. Takeaways include a blueprint for building a DevSecOps operating model in your organization; an understanding the security practitioners' point of view and embracing it to drive innovation; and ways to identify current operating characteristics in your organization and use them to drive a strategy for DevSecOps.

[Link to session](#) | [Workshop](#)



FEATURED SPEAKER: Tim Anderson – Sr. Program Manger WWPS, AWS | Ankush Chowdhary – Principal BD Security and Compliance, AWS

AIM314 

Create a “Question & Answer” Bot with Amazon Lex and Amazon Alexa

FOCUS ON

AMAZON ALEXA

A recent poll showed that 44% of customers would rather talk to a chatbot than a human for customer support. In this workshop, we show you how to deploy a "question and answer" bot using two open-source projects: QnABot and Lex-Web-UI. You get started quickly using Amazon Lex, Alexa, and Amazon Elasticsearch Service to provide a conversational chatbot interface. You enhance this solution using AWS Lambda and integrate with Amazon Connect.

[Link to session](#) | [Workshop](#)



FEATURED SPEAKERS: Bob Strahan, Principal Consultant, AWS | Bob Potterveld – Sr. Consultant, AWS | John Calhoun, Solutions Architect, AWS

STG405

Automate Application Data Protection and Centralize Backup Management in AWS

FOCUS ON

DATA PROTECTION

As applications move to the AWS Cloud to take advantage of its breadth and depth of products and features, application data can become distributed across multiple AWS services, including database services, block storage, and file systems. Protecting your applications in a compliant and consistent manner across AWS services is an important part of a successful cloud deployment. In this session, learn about solutions and best practices for protecting your application data across AWS services in a way that is automated and streamlined to support your business and regulatory backup compliance requirements. Learn about the solutions and features that AWS offers to help you to configure and audit the AWS resources you want to back up. Understand how to automate backup scheduling, set retention policies, and monitor backup and restore activity across AWS services.

[Link to session](#) | [Workshop](#)



FEATURED SPEAKER: Mas Kubo – Sr Product Manager, AWS | Sumit Agarwal – Sr. Manager Software Development, AWS

Executive Summit Keynote Speakers



KEYNOTE: Global Partner Summit

Tuesday, November 27
8:30am-10:30am

The Venetian, Level 2



KEYNOTE: Andy Jassy, CEO, AWS

Wednesday, November 28
8:00am-10:30am

The Venetian, Level 2



KEYNOTE: Dr. Werner Vogels, CTO, Amazon

Thursday, November 29
8:30am-10:30am

The Venetian, Level 2

Explore the re:Invent campus

[View full venue list here »](#)

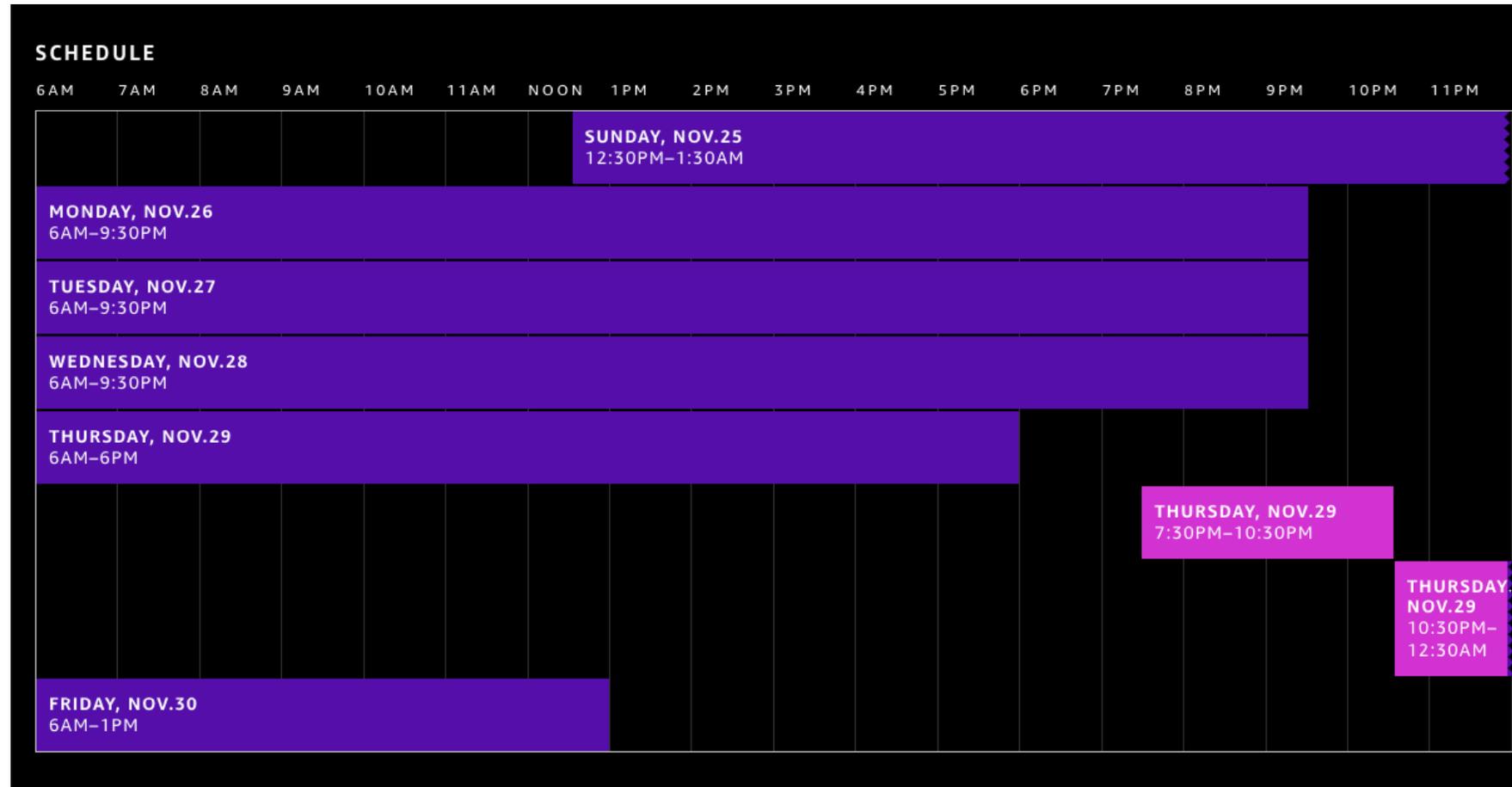


Campus shuttle

The campus shuttles run continuously, on direct routes, to and from our campus venues – Aria, Bellagio, Encore, MGM, Mirage, Venetian, and the re:Play venue – during the posted schedule. Plan ahead for peak travel times before and after major events such as Midnight Madness, Meals, Welcome Reception, Keynotes, Pub Crawl, and re:Play.

Your re:Invent badge is required to ride campus shuttles.

[View full details here »](#)



Your re:Invent checklist

A list of tasks to check off as you're getting prepared for re:Invent 2018.

- Registered for re:Invent
- Booked my hotel
- Booked travel reservations
- Uploaded my badge photo
- Connected with account team
- Favorited sessions
- Reserved seats to the sessions I want
- Reviewed list of open bootcamps
- Reviewed the Expo & Quad maps
- Downloaded the mobile app
- Familiar with the shuttle & walking routes
- Watched all 7 How-to-re:Invent videos on YouTube
- Marked my calendar with critical dates
- Familiarize myself with sponsors in the Expo & Quad
- Signed up for quirky programs (Harley Ride, Tatonka Challenge, 4k/8k Run, Broomball, etc.)
- Read the Know-Before-You-Go info
- Attended Know-Before-You-Go webinar

[Download the full Agenda worksheet](#)



Stay connected!

If you'd like to arrange a meeting with **AWS Worldwide Public Sector subject matter experts**, please reach out to your account teams to coordinate. To stay up to date with events and announcements, follow the below twitter accounts or visit our webpage (click on the image to be directed).

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See you in Vegas!