Session Name*	Date*	Start Time*	End Time*	Tracks	Description	Speaker Directory	Speaker Title
Welcome to IMPACT (Presentation and Panel Discussion)	January 31, 2022	11:00:00 AM	11:45:00 AM	Plenary, Keynote	Learn about the conference and CMG from our Board of Directors. We will present on CMG and then have a panel discussion with CMG's board of directors on Tech, Workforce, and Innovation.	CMG Board of Directors	
Networking Session	January 31, 2022	11:45:00 AM	12:00:00 PM	Networking	Join your peers for a virtual networking session!	Everyone's a Speaker	
Do You See What I See? Using AR and AI	January 31, 2022	12:00:00 PM	1:00:00 PM	Artificial Intelligence / Machine Learning	In this hands-on workshop, we explore the challenges of real-world applications of augmented reality (AR) and artificial intelligence (AI) through experiments that demonstrate interactions with an augmented world. We interrogate applications of AR and AI, their limitations, social impact, and ethical considerations. You will walk away with code and ideas for your own projects.	Anoush Najarian, Sindhuja Parimalarangan, Maitreyi Chitale	Software Engineering Manager, Chair, Board of Directors of CMG, Senior Performance Engineer, Data and Applications of Machine Learning Research Engineer
Networking Session	January 31, 2022	12:45:00 PM	1:00:00 PM	Networking	Join your peers for a virtual networking session!	Everyone's a Speaker	
Building a Full Stack Observability Solution using Distributed Tracing	January 31, 2022	1:00:00 PM	2:00:00 PM	Observability, Cloud	As more and more organizations start using a combination of cloud and third-party APIs, monitoring & troubleshooting applications has become increasingly challenging. In this session, we will describe how to use distributed tracing to correlate metrics, logs, and events to troubleshoot microservices-based applications effectively. We will also explore the must-haves for a full-stack observability solution.	Chinmay Gaikwad (***Jan Schulte (janschul) <janschul@cisco.com> will do Chinmay's Q&A)	
Create Your Lasting Legacy	January 31, 2022	1:00:00 PM	2:00:00 PM	Leadership	We all have a story to tell and a person waiting to hear it so that it may set them free. As professionals, we are inundated with many responsibilities that often derail us from staying in alignment with our talents & ultimately our purpose. Every day we meet with challenges waiting to rob us from creating our lasting legacy. In this interactive keynote, each participant will rediscover their strengths, identify common symptoms of burnout that plague professionals, and gain recognition of how to develop their own voice to reach the H.E.A.R.T of the communities they serve.	Jasmin Haley	CEO
First experiences with Docker on zCX	January 31, 2022	1:00:00 PM	2:00:00 PM	zOS, Containers	zCX is one of the most exciting functionalities recently introduced in z/OS. With zCX, it is now possible to run distributed applications on z/OS with no changes. We will discuss the first experiences of configuring this environment and running a Linux app that interprets SMF data in it. We'd like to show: zCX installation and configuration how to build an image that can be then downloaded in zCX (with all its challenges) how to deploy a container based on the pre-prepared image how to work with the container how to persist data in the container zCX address space resource consumption (GCP and zIIP)	Matteo Bottazzi	Software Developer
Awards Program	January 31, 2022	2:00 PM	2:30:00 PM	Innovation	During this special session, we will learn more about the finalists (Capital One, MongoDB, and SoftCity Group) and announce the winner of the first annual award. Afterwards, there will be time in our networking space for attendees to hear from our finalists and winner.	Capital One, MongoDB, SoftCity Group	
Finalist Networking	January 31, 2022	2:30:00 PM	3:00 PM	Innovation, Networking	This time is for general networking and a chance to chat with the finalists : Capital One, MongoDB, and SoftCity Group.	Capital One, MongoDB, SoftCity Group	
Lessons Learned from a Ransomware Attack	February 1, 2022	10:00 AM	11:00:00 AM	Plenary, Keynote, Security, Disaster Recovery	This talk covers a ransomware attack on a medium-size school district (23K students, 4K staff). We start with the timeline of the attack that was determined by forensic analysis, cover what was damaged in the attack, and then cover the attack recovery process. Then we'll discuss changes that were made to avoid and mitigate any future attacks. We wrap with the lessons learned during this attack in the hope that they will help you to avoid and recover quicker if you do experience a ransomware attack.	Ski Kacoroski	System Administrator
Cloud Decisions Optimization	February 1, 2022	11:00:00 AM	12:00:00 PM	Cloud, Capacity	Organizations moving and managing workloads in the cloud face similar challenges of selecting the cloud data platform and managing a Hybrid Multi-Cloud environment. This presentation will review the case study of applying our modeling and optimization technology in addressing these challenges.	Boris Zibitsker	CEO
Don't Let Incidents Burden You. The Right Way to do Incident Response.	February 1, 2022	11:00:00 AM	12:00:00 PM	Observability, Resource Planning, Site Reliability Engineering	Learn how to do proactive incident response, streamline your workflows, and improve reliability with Blameless.	John Weil, Paul Chu	Sales, Head of Customer Success

Session Name*	Date*	Start Time*	End Time*	Tracks	Description	Speaker Directory	Speaker Title
Drones 2 GNSS	February 1, 2022	11:00:00 AM	12:00:00 PM	Innovation	Learn about the project Drones 2 GNSS. In a nutshell, the project uses an aerial platform (Drone) to acquire high precision mapping coordinates of the ground by using a novel set of integrated sensors and algorithms, with great applications in most fields of Geo-technology. A more detailed description is found in https://www.mdpi.com/2072-4292/12/7/1080/htm, while our Laboratory is shown in www.senselab.tuc.gr.	Panagiotis Partsinevelos, Maria Chrysanthi, Achilleas Tripolitsiotis	
The Freedom of Kubernetes requires Chaos Engineering to shine in production	February 1, 2022	11:00:00 AM	12:00:00 PM	Containers, Engineering	Like any other technology transformation, k8s adoption typically starts with small "pet projects". One k8s cluster here, another one over there. If you don't pay attention, you may end up like many organizations these days, something that spreads like wildfire: hundreds or thousands of k8s clusters, owned by different teams, spread across on-premises and in the cloud, some shared, some very isolated. When we start building application for k8s, we often lose sight of the larger picture on where it would be deployed and more over what the technical constraints of our targeted environment are. Sometimes, we even think that k8s is that magician that will make all our hardware constraints disappear. In reality, Kubernetes requires you to define quotas on nodes, namespaces, resource limits on our pods to make sure that your workload will be reliable. In case of heavy pressure, k8s will evict pods to remove pressure on your nodes, but eviction could have a significant impact on your end-users. How can we proactively test our settings and measure the impact of k8s events to our users? The simple answer to this question is chaos Engineering. During this presentation we will use real production stories to explain: The various Kubernetes settings that we could implement to avoid major production outages. How to Define the Chaos experiments that will help us to validate our settings The importance of combining Load testing and Chaos engineering The Observability pillars that will help us validate our experiments	Henrik Rexed	Cloud-Native Advocate
Boosting Engineering Speed with Cycle Time	February 1, 2022	12:00:00 PM	1:00:00 PM	Engineering,	Your engineering speed is your organization's competitive advantage. A fast Cycle Time will help you out-innovate your competitors, keep your team nimble and motivated, shorten feedback loops, and maintain the agility necessary to respond to issues quickly. Tracking Cycle Time – rather than more subjective measures of engineering speed – can reduce bias and provide a trustworthy baseline from which to drive improvement.	Romain Dupas	Director of Software Engineering
Key considerations for managing and optimizing under Tailored Fit Pricing	February 1, 2022	12:00:00 PM	1:00:00 PM	zOS, Capacity, Resource Planning	Tailored Fit Pricing is a new means of paying for hardware and software consumption on the mainframe, however at a technical level there may be changes in how operators and capacity planners will need to work. This session will explain some of challenges, provoke some thoughts within the audience and suggest strategies to optimize performance and resources. The Tailored Fit Pricing model offers new opportunities for those tasked with managing z/OS IT operations. With no Rolling 4-Hour Average, soft-capping is no longer an effective strategy to control costs. As a result you may have questions about how to manage and optimize workloads from both a technical and business perspective: How am I tracking against my allocated annual baseline? What is the change in MSU consumption month-to-month? How do I know which system management tasks are adding value and which can be reduced? How can I determine which application improvements will have the largest impact? In this session, we show you how to answer these questions and more, including a focus on the new Tailored Fit Pricing for Hardware options.	Chris Walker, Tracy Dean	Senior Product Manager, IBM Product Manager
Perspectives on the USL (Relating scaling to saturation, relative response time, machine structure, and capacity)	February 1, 2022	12:00:00 PM	1:00:00 PM	Performance	This session is based on the speaker's book entitled "Information Technology Performance" that contains fundamentals of computer performance from a fresh perspective. This session will cover scaling models which reinterpret Dr. Gunther's USL and expand upon some of his examples. This talk additionally covers fundamental ideas to the USL model and methods. Specifically, the session will start at the beginning with definitions and terminology. Joe will talk about utilization and its relationship to throughput, then move on to the duality of scaling and saturation and onto scaling models. Key Takeaways Relate scaling model results to saturation and response time Recognize the impact of machine/network structure on the model results Quantify the scalability impact of increased "capacity" (Memory/Cache)	Joe Temple	Adjunct Professor

Session Name*	Date*	Start Time*	End Time*	Tracks	Description	Speaker Directory	Speaker Title
The future of content delivery for mobile applications	February 1, 2022	12:00:00 PM	1:00:00 PM	Performance, Mobile	In this talk, you'll learn more about Cycle Time and its components, so you can start identifying opportunities to boost engineering speed in your organization.	Rui Costa	CEO and Co-founder
"Game Day" production testing	February 1, 2022	1:00:00 PM	2:00:00 PM	Performance, Testing, Capacity	In the IT industry, testing in production has always been considered a "bad word". However, we in Capital One have been doing it for over a year and realized a lot of benefits! "Game Day" is a concept that Capital One has been utilizing to test in production in order to validate the capacity and resiliency of the critical applications. Typically testing in production could lead to customer impacts and outages, however we have been able to conduct multiple successful exercises with no negative adverse impact. This session will go over how we are able to safely test in production, value realized so far as well as future plans. Key Takeaways What is the value of testing in production? How can it be done with no adverse impact to users or customers? What solutions and techniques are available to make testing in production a reality	Duane Diggs, Yar Savchenko	Director, Technology Management, Director, Technology Management
Balancing Kubernetes performance, resilience & cost by using ML-based optimization - a real-world case	February 1, 2022	1:00:00 PM	2:00:00 PM	Containers, Artificial Intelligence / Machine Learning	Properly tuning Kubernetes applications is a daunting task, often resulting in reliability and performance issues, as well as unexpected costs. We describe how ML-based optimization enabled a digital service provider to automatically tune Kubernetes pods and dramatically reduce the associated cost. Properly tuning Kubernetes microservice applications is a daunting task even for experienced Performance Engineers and SREs, often resulting in companies facing reliability and performance issues, as well as unexpected costs. In this session, we first explain Kubernetes resource management and autoscaling mechanisms and how properly setting pod resources and autoscaling policies is critical to avoid over-provisioning and impacting the bottom line. We discuss a real-world case of a digital provider of accounting & invoicing services for SMB clients. We demonstrate how ML-based optimization techniques allowed the SRE team and service architects to automatically tune the pod configuration and dramatically reduce the associated Kubernetes cost. We also describe the results of incorporating resilience-related goals in the optimization goals. Finally, we propose a general approach to tune pods and autoscaling policies for Kubernetes applications.	Stefano Doni	Performance Expert and Co-Founder
Work less and save more	February 1, 2022	1:00:00 PM	2:00:00 PM	zOS	Most z/OS environments have thousands of jobs , hundreds of started tasks, millions of CICS, IMS , DDF or WEB transactions , tens of service classes and reports classes that run everyday. While most computer centers get the big picture of how everything is running and the main problem areas , they still have many difficulties to pinpoint the single job, address space, and transaction that gradually increase until you notice it has become a cost and performance problem. In this presentation I will present a simple methodology and reporting system that can solve most of these problems. The session is best for those who are: Be early careerists or new to this subject area (Intro/Beginner) Have a working knowledge of the subject area Have extensive experience in the subject area (Advanced)	Mark Cohen Austroweik	Technical Director
Propelling Java and Alibaba Scale	February 1, 2022	7:00:00 PM	7:45:00 PM	Software, Development, Performance, Cloud	Java continues to evolve to support an ever-changing ecosystem of applications, languages, and platforms. We cover our work on Java education, engineering practices, performance at Alibaba Scale. This talk describes how you can build better software and improve efficiency by leveraging improvements in the Java ecosystem. We will warp it up with performance optimization beyond just Java as Java applications are co-deployed with other applications in the cloud.	Kingsum Chow	Chief Scientist
Networking Session	February 1, 2022	7:45:00 PM	8:00:00 PM	Networking	Join your peers for a virtual networking session!	Everyone's a Speaker	

Session Name*	Date*	Start Time*	End Time*	Tracks	Description	Speaker Directory	Speaker Title
All Hands on Deck! Come Together with the Fab Four: Capacity, Performance, Cost and AI	February 1, 2022	8:00:00 PM	9:00:00 PM	Capacity, Performance, Artificial Intelligence / Machine Learning	In today's world, your 'deck' needs more hands! It takes skilled people, an effective capacity management process, and focused tools to support mergers, acquisitions, outage recovery, and application changes within an infrastructure. Considering the realization that no organization can properly support an "All Hands Event" with just using "Eyes on Glass" and that it takes a business focus on the data with reporting that is enabled with AI. In this session, Dan Ruehl will review being be prepared for the event (the business matters), aligning your data for AI consumption, statistical "helping hands", resiliency and data visualization practices.	Dan Ruehl	Senior Product Implementation Specialist
Continuous Performance Testing: Challenges and Approaches	February 1, 2022	8:00:00 PM	9:00:00 PM	Performance, Testing, Software, Development	The way we develop software is changing – and performance engineering is changing too to remain relevant. Integrating into agile development (shift-left / continuous performance testing) becomes a must when performance risks need to be mitigated. Automation and Continuous Integration (CI) become necessary as we get to multiple iterations and shrinking times to verify performance. However, continuous performance testing may be implemented in many different ways and on different levels depending on specific context – what we need to test, how high are performance risks / costs of failure, what technologies we use, etc. There are numerous challenges – and there are different ways to address them. We will discuss several approaches on specific examples – from light-weight solutions to the full-scale implementation at MongoDB.	Alexander Podelko	Staff Performance Engineer
The Purposeful Innovator	February 1, 2022	8:00:00 PM	9:00:00 PM	Leadership, Innovation	The Purposeful Innovator is an invitation to game-changing business leaders and entrepreneurs to bring their whole and higher selves to ideas that create transformation in that thriving space where integrity and innovation meet. I share a proven framework and process for a purposeful approach to creating technology-based products that solve with compassion some of the world's most pressing challenges. Products with intention and a mission that is purposeful keeping in mind a greater impact. It's a call to action for the private sector and entrepreneurs to partner in the purposeful innovation movement toward meaningful and purposeful products and services. Companies, nonprofits, and entrepreneurs alike are slowly waking up to the challenge of moving forward in new ways that are purposeful and human centered. Inviting listeners to join the tribe of purposeful innovators and inventors in building the future we deserve, as I share compelling stories of founders, framework and process toward product development that will flourish while solving the kinds of problems that stir one's passions and meaningful contributions.	Carnellia Ajasin	CEO
Workforce Transformation: Defining your Digital Workplace	February 2, 2022	11:00:00 AM	12:00:00 PM		Today we want to not focus on what products you need to be productive in today's environment but instead what are some of the biggest things that you need to think about when creating a model that works in a remote environment or hybrid environment where your employees can work from anywhere. We will look at some data that Dell has collected on what our customers are telling us they envision their business will look like in a post pandemic era. What both our customers and Dell are seeing from potential employees and how to best attract and retain that talent pool. In order to attract talent we need to make sure we know are employees, understand if we are providing the right technology and if we are giving them the best change to be both product and happy employees. Keeping this conversation IT vendor agnostic, we want to make sure our customers have a cohesive plan and able to ask any IT provider the right questions to make sure they can execute to their plan. We will then focus on what that plan looks like and how we feel like the best way to implement that plan. We will discuss a little of the learnings and changes Dell had to make as we went through this transformation as a company and how you can avoid some of those same pitfalls. We will look at what we have focused on to make our employees just as productive in a fully remote environment and what we as a company focused on to achieve this. We then will talk about something that we feel is most important, securing your data and giving your employees piece of mind when working remote. The last thing we want our customers to continue to think about is how do we make sure we are looking at the proper talent and who is going to fill the roles in our company.	Daren Masanda	North America Small Business Field Marketing Manager
5G Wireless Networks and beyond with AI/ML adaption	February 2, 2022	12:00:00 PM	1:00:00 PM	Artificial Intelligence / Machine Learning, 5G	This presentation provides valuable architecture and business insights when planning to deploy new generation wireless networks based on Service Based Architecture(SBA). Emphasis on business verticals convergence with business and operational support (B/OSS) systems highlighted. Business value propositions with AI strategies are covered. Key technology enablers are outlined with concepts include AI/ML models adaption on 5G and beyond wireless network advancements/standards considered.	Mallikharjuna R. Valluri	Sr. Enterprise Architect – Solutions

Session Name*	Date*	Start Time*	End Time*	Tracks	Description	Speaker Directory	Speaker Title
Finding Your Way in the Cloudy DBMS Jungle	February 2, 2022	12:00:00 PM	1:00:00 PM	zOS, Containers	In this talk, we report on our long-term experiences in benchmarking cloud-hosted DBMS by highlighting key impact factors for significant evaluations. In addition, we discuss relevant DBMS performance, scalability, elasticity, availability, and cost metrics. These concepts are integrated into our benchmarking-as-a-service platform and will be demonstrated by a set of real-world cases, addressing challenges such as: Which cloud provider does provide the best DBMS performance/cloud cost ratio for my application? Will I get more performance with the next DBMS version? From a performance perspective, which one to choose: self-hosted DBMS vs. DBaaS?	Daniel Seybold	Chief Technical Officer
Global Cloud Environment: Data Analysis and Management Workload	February 2, 2022	12:00:00 PM	1:00:00 PM	Cloud, Capacity	Often IT companies are facing with multiple challenges in case if they decide to create globally distributed cloud based environment, like well-known problem of big data, including storing client accounts in a database, protocoling user activity in the logs, transferring real time dataflow, processing big data analytics, etc. The session addresses the challenges of a digital cloud environment when it comes to a global scalability with a big amount of remote servers and unsecure public cloud, such as Amazon. The goal of the study is to work out the approach for evaluating the reasonable system capacity under heavy workload. For that purpose, Zabbix monitoring solution is used and business metrics are applied in relation to existing system ones. Prediction data model is proposed to compute the future forecast of the user activity based on the collected historical statistics and verify whether capacity adjustment is possible or not. The results of capacity planning are implemented at Genesys International Telecommunications Company. System analysis of the production environment indicated the possibility to downscale the capacity of certain virtual servers, which allowed saving the annual operational cost by $3,500 (50%) for each affected server.	Dmitry Shchemelinin, Mikhail Buinevich	VP SRE & NOC, Doctor of Science and a Professor
OpenTelemetry and Mainframe Application Performance Monitoring: How we figured out distributed tracing on Z	February 2, 2022	12:00:00 PM	1:00:00 PM	zOS, Performance	In this talk, you will learn how the IBM Z Application Performance Management team is overcoming mainframe tracing limitations to provide full end-to-end visibility of hybrid applications on modern APMs like Instana and AppDynamics. As IBM transitions into a Hybrid Cloud business model, open-source tooling becomes an important part of scaling software, especially for Z (mainframe) AIOps and monitoring solutions. Due to the nature of Z with its many legacy and in-house protocols, open tracing is a challenge and has led to some limitations for what we can and cannot trace. In this talk, you will learn how the IBM Z Application Performance Management team is overcoming these limitations to provide full end-to-end visibility of hybrid applications on modern APMs like Instana and AppDynamics.	Taylor Donner. Aaron Young	Product Manager, Chief Architect
Building Observability into Your Engineering Processes	February 2, 2022	1:00:00 PM	2:00:00 PM	Observability, Engineering, Data	The performance implications of software design choices are often only incidentally mentioned in undergraduate courses and are rarely taught in a systematic way. Most undergraduate students lack awareness of the performance implications for designing and constructing software as well as the associated quantitative skills for planning for and analyzing typical performance issues. Cultivating Performance-Aware Software Engineers is an NSF-funded project to develop innovative and systematic approaches to enhance performance engineering skills in existing undergraduate curricula. This panel brings together prominent leaders in academia and industry to share perspectives and ideas and envision a roadmap for instilling essential SPE topics and practices into undergraduate education.	James McGill	VP of Engineering
Physical data center capacity planning - Performance management at scale	February 2, 2022	2:00:00 PM	3:00:00 PM	Capacity, Data Center	Convergence of industry verticals with business value	Chris Molloy	Distinguished Engineer
Putting a dollar value on Cloud Cost Optimisation.	February 2, 2022	2:00:00 PM	3:00:00 PM	Cloud, Capacity	The idea of reducing cloud cost is nothing new, infact nothing has really changed since the days of hosting infrastructure in your own data centre. Whats new is that your cloud cost has just become a variable (OPEX) cost on your companies balance sheet, which means your CFO and CEO are very interested about what that number means and which direction its heading in. In this session we'll explore a simple model you can use to predict your cloud cost, the amount you might be over-provisioned and come up with a quick plan to do something about it.	Thomas Ballard	Founder

Session Name*	Date*	Start Time*	End Time*	Tracks	Description	Speaker Directory	Speaker Title
Retrospectives: Do We Need Them & Why?	February 2, 2022	2:00:00 PM	3:00:00 PM	Observability, Resource Planning, Site Reliability Engineering	A retrospective (or post-mortem) is a critical part of Incident Response. If you don't document, share, and learn, everyone misses out on a critical learning opportunity. Retrospectives are designed to help teams collectively learn, iterate, and improve. It involves taking the time to story-tell exactly how an incident took place and discussing how to do better next time. The key is to shine new light on processes, tools, and systems so that you know how to fine-tune. This session will show you: How Blameless puts power in the hands of engineers, and How to avoid headaches, save time, and create unique reports for different stakeholders.	Matthew Dodge	
System Recover Boost: Hitting the Turbo Button on z/OS	February 2, 2022	2:00:00 PM	3:00:00 PM	zOS	SRB is one of the more interesting things that IBM has introduced with the z15 and certainly can help certain installations, shut down, start-up, and recover faster. But what are the practical implications of using SRB? How does enabling the different flavors of SRB influence both the performance and measurement of the systems, even potentially the systems that aren't being boosted?	Scott Chapman	Director, Software Design & Development
Is the mainframe at the heart of your cyber resiliency strategy?	February 2, 2022	3:00:00 PM	4:00:00 PM	zOS, Security	With cyber-attacks continuing to grab headlines, many enterprises are re-evaluating their resiliency posture, including the role the mainframe needs to play due to the criticality of the data and applications running on the platform. The focus is to discuss cyber resiliency at a high level and the techniques that can be applied to address these concerns. A major challenge for IT operations is protecting business-critical infrastructure and data from the impact of outages and downtime. With cyber-attacks continuing to grab headlines, many enterprises are looking at their resiliency posture, which might include the deployment of air-gapped solutions to deliver the ability to recover from an event that compromises their data. However, determining the incident's scope and surgically recovering the right data backups can drive up the recovery time required, potentially impacting the business. We'll show how a resilient architecture on IBM Z can be developed, including how to identify and recover the right backups of potentially compromised data quickly and easily to minimize business disruption.	Chris Walker, Diego Bessone	
Panel Discussion: Roadmap for Cultivating Performance-Aware Software Engineers	February 2, 2022	3:00:00 PM	4:00:00 PM	Performance, What's Next, Performance Engineering, Software	The performance implications of software design choices are often only incidentally mentioned in undergraduate courses and are rarely taught in a systematic way. Most undergraduate students lack awareness of the performance implications for designing and constructing software as well as the associated quantitative skills for planning for and analyzing typical performance issues. Cultivating Performance-Aware Software Engineers is an NSF-funded project to develop innovative and systematic approaches to enhance performance engineering skills in existing undergraduate curricula. This panel brings together prominent leaders in academia and industry to share perspectives and ideas and envision a roadmap for instilling essential SPE topics and practices into undergraduate education.	André B. Bondi , Ye Yang, Connie Smith, Kishor Trivedi, Alexander Podelko, Igor Trubin, Gregg Vesondor, Ye Yang, Andre Bondi	Adjunct professor of software engineering, Associate Professor of software engineering, Principal Consultant of the Performance Engineering Services Division, Fitzgerald Hudson Chair, Staff Performance Engineer, IT Manager, Director of
Virtual Networking Session sponsored by Blameless	February 2, 2022	3:00:00 PM	4:00:00 PM	Networking	Join us for video networking as we talk DevOps and Site Reliability Engineering with experts from Blameless. Networking session attendees have the chance to win prizes and score points in the conference game.	Everyone's a Speaker	
Your Mess Needs a Mesh	February 2, 2022	3:00:00 PM	4:00:00 PM	Cloud, Containers, Microservices	With cloud-native container-based microservice deployments, there can be challenges with consistent and reliable support for L7 metrics, rate limiting, traffic load splitting, circuit breaking, canary deployments, etc. Service Meshes address these issues. The Service Mesh framework takes care of the service discovery, service identity, security, traffic flow management, and policy enforcement of each service. Microservices are becoming more and more prevalent in modern-day cloud-native deployments. Even with cloud-native container-based microservice deployments, there can be challenges with consistent and reliable support for L7 metrics, rate limiting, traffic load splitting, circuit breaking, canary deployments, etc. Service Meshes address these issues. The Service Mesh framework takes care of the service discovery, service identity, security, traffic flow management, and policy enforcement of each service. In this session, the attendee will learn what common application/service pain points (mess) a Service Mesh can resolve, what a Service Mesh is, how it integrates with Kubernetes, and how various microservices can leverage a Service Mesh for things like service discovery and traffic flow management. Linkerd, Envoy, and other service mesh types and components will be discussed.	Shannon McFarland	Technical Executive
Managing 50 Billion Things	February 3, 2022	10:00:00 AM	11:00:00 AM	Artificial Intelligence / Machine Learning, Capacity, BYOD	Today, each IT person in the enterprise manages, on average, less than 250 devices. With the advent of IoT, that ratio needs to grow closer to a million to one to be manageable. And as enterprises find more and more devices connecting to their networks, the challenges for administrators grow. This presentation will discuss how we'll get there utilizing standardized, interoperable technologies in security, device management, and automated onboarding.	Eliot Lear	Principal Engineer

Session Name*	Date*	Start Time*	End Time*	Tracks	Description	Speaker Directory	Speaker Title
Mainframe innovation: unlock any data for any application	February 3, 2022	11:00:00 AM	12:00:00 PM	zOS	Discover how to manage data complexity and access to mainframe unstructured data and external data sources (e.g. Oracle, Teradata) through a virtualization layer with IBM Data Virtualization Manager for z/OS. Find out how to exploit this solution to innovate traditional mainframe applications to adapt to new business requirements and trends in a data gravity model.	Chiara Baldan, Laura Guidi, Francesco Borrello	Data Engineer, Data Engineer, z Data & AI Technical Sales Specialist
Modeling, Animation & Observability	February 3, 2022	11:00:00 AM	12:00:00 PM	Observability, Performance	Modeling has been a valuable tool for evaluating application performance during design, test and production for the last 40+ years. However, there are challenges with model construction and usage. This presentation will (a) demonstrate how animation can improve the utility of modeling and (b) how leveraging distributed traces can reduce the time and effort required to build and refresh a model. Open-source software will be used to demonstrate the value of adding animation to the evaluation of a model. Visualizing application dynamics in real/near time provides more insight into understanding performance compared to a static before/after report. Furthermore, if you extend animation to include interactivity, you now have a "human in the loop" to guide and review "what if" scenarios. One or the more interesting components of Observability is distributed traces. From a modeler's point a view, a distributed trace addresses one of the primary challenges with model construction: how does a transaction flow through the system. A formal data model will be proposed as a way to capture and reuse flows represented by distributed traces.	Richard Gimarc	Independent Consultant
Redefining a Lean IT Support Team in 2022	February 3, 2022	11:00:00 AM	12:00:00 PM		Is your business currently handling IT with a small in-house team tackling most needs, and using an MSP to plug away at any gaps? Or even handling everything in-house? With remote work, a modernized tech stack, and scaling organizations at the forefront, maneuvering day to day tasks with a lean team is never easy, but it can become simpler. Check out this session with Electric's Johnny Marrero as he discusses: Why SMBs should move away from strictly internal IT support What to look for when determining external IT partners How you can save time and money by outsourcing your IT needs Technologies and solutions to maximize your success (Security, MDM, Ticket Management, etc.)	Johnny Marrero	Sales Engineer
10 tips to reach Mainframe Operational Excellence (or not)!	February 3, 2022	12:00:00 PM	1:00:00 PM	Plenary, Keynote, zOS, Operations, Automation	Operational excellence, what does it mean in this digital world? As with Covid, we have to embrace change, to not only stay competitive, but to not get left behind. At the heart of everything mainframe, "SMF records". Understand them and what they can bring to your company. Ignore or not use them is at your peril.(Just like jumping from a plane without a parachute or anticipating needs spontaneously – improvisation is so much cooler!) Do we stick our head in the sand or envelope change? Join ZETALY for this interactive session on ideas on reaching mainframe excellence (or not), how we can use what we already have for operational analytics (ITOA), problem determination, monitoring & automation.	Marc Beschi	Global Director of Sales
Beyond Picture Perfect Diversity: How to Create a Sense of Inclusion	February 3, 2022	1:00:00 PM	2:00:00 PM	Leadership, Diversity	Many organizations view diversity as a statistical goal, achieved by strategic hires and exemplified by a picture-perfect workplace. However, a diverse team without ties of inclusion fails to fully harness the advantages of diversity. In this keynote, Dima Ghawi shares information she has gleaned from hundreds of interviews and workplace surveys to teach leaders how to create a welcoming and inclusive workforce. Through humorous stories and engaging group activities, Dima highlights the insight of a bottom-up approach, the influence of courageous office culture, and the power of affinity groups. With the rise of racial tensions and the Black Lives Matter movement, diversity and inclusion is more important than ever. More than picture-perfect diversity, this presentation teaches audience members how to foster a sense of inclusion within their workspace. This will allow viewers to better understand their diverse employees and create a better world for us all.	Dima Ghawi	Keynote Speaker
Still researching the needle in the haystack on the mainframe?	February 3, 2022	1:00:00 PM	2:00:00 PM	zOS, Observability	Adopt an accessible, comprehensive and chargeable solution and keep calm & observe, now! The role of the mainframe is changing and there are lots of new demands on "z". This could be, FinOps, Analytics AI/BI, Mainframe Modernization, Mainframe Observability or any number of these topics. Fundamentally, there are 3 topics that we need to focus on, "Accessibility, Understandability, and Chargeability". Join ZETALY for this session on ensuring the mainframe is not "an island" can be understood and used by all and an invaluable tool to be used by the business.	Brian Hoare	Solutions Specialist

Session Name*	Date*	Start Time*	End Time*	Tracks	Description	Speaker Directory	Speaker Title
DevOps Worked… Why Hasn't Security Kept Up?	February 3, 2022	2:00:00 PM	3:00:00 PM	DevOps, Software, Development	DevOps has changed the way software is built, delivered, and operated. Behind the improvements are DevOps teams, cultural shifts, and tooling built to serve engineers. Let's look at why security has remained stagnant while a best-in-class standard has been developed for the rest of engineering. DevOps has changed the way software is built, delivered, and operated in production. Features are pushed out faster than ever before, applications are more resilient, and improvements in the development pipeline have given engineers the power to own the complete delivery of their application. Behind the improvements that we have seen from the advent of the DevOps movement are DevOps teams, cultural shifts, and tooling that was built to serve the engineers themselves. While the world has shifted left and a best-in-class standard has been established for software engineering, application security has remained stagnant.	Joni Klippert	Founder & CEO
Get the business views you need to keep the mainframe profitable	February 3, 2022	2:00:00 PM	3:00:00 PM	zOS, Resource Planning	In this TechDemo Session, you will discover a solution to make sense of your operational data and how to transform your data fuel into business value. Through ZETALY Service Intelligence, ZETALY Cost Control and ZETALY resource Planning, you will discover how to gain visibility into your mainframe activity, understand the general organization and dependencies of your infrastructure, connect technical data to its business context and track critical key performance indicators and detect anomalies	Roberto Pacheco	Pre-Sales Engineer
What's that VM Doing? The Sequel	February 3, 2022	2:00:00 PM	3:00:00 PM	Capacity, Infrastructure, Observability, Performance	Server/VM-level measurements notify the capacity/performance analyst of resource usage patterns during (1) capacity threshold breaches (2) SLA breaches (3) other significant changes, but not how/why these occurred. Inside guest measurements of the individual processes running on the server are the implementation of everything from the operating system, tools, utilities, and application(s). How can these be aggregated into specific categories to better understand the overall behavior of the server? The paper presents a categorization methodology for server process measurements along with several case studies (AIX, Linux and Windows). A different set of case studies was published for CMG Impact 2020 presentation What's that VM Doing?	Debbie Sheetz	Principal Consultant
Five design patterns to build more resilient applications	February 4, 2022	11:00:00 AM	12:00:00 PM	Software, Development, Performance	To deal with uncertainty, you have to design your software to be resilient. This session will review the most useful patterns for building resilient applications such as graceful degradation, timeouts, exponential backoff, and circuit breakers. It will also explore how we can test our assumptions by injecting failure into our applications and uncovering our weaknesses. You will leave with an understanding of how to build more resilient applications and several patterns that you can apply to your software development projects. This session goes through patterns you need to think about when building resilient, distributed applications. It uses an example application that generates 'random' jokes, this application is then updated with code that implements the patterns I am talking about. So at the end the joke generating application in more resilient that when then talk started.	Derek Bingham	Senior Developer Advocate
Code Climate - Velocity Tech Demo	February 4, 2022	12:00:00 PM	12:30:00 PM	Observability, engineering	Engineering leaders recognize the importance of building observability into their software systems. Through testing, monitoring, and detailed reporting, it's possible to thoroughly understand what's working and what isn't. But what about engineering processes? Despite putting a lot of time and energy into organizational design, development processes, hiring practices, and team composition, leaders have a hard time identifying when things aren't working as planned. Engineering data can help bring the principles of observability to your team and its processes, making it possible to spot pipeline bottlenecks, coach developers, and debug processes before issues get too big to fix. In this keynote, you'll find out what kinds of engineering data can create observability, and how to use that data to build high-performing engineering teams	Sherianne Bolling	Engineering Data Specialist at Code Climate
Networking Session	February 4, 2022	12:00:00 PM	12:15:00 PM	Networking	Join your peers for a virtual networking session!	Everyone's a Speaker	

Session Name*	Date*	Start Time*	End Time*	Tracks	Description	Speaker Directory	Speaker Title
Cloud Servers Rightsizing with Seasonality Adjustments	February 4, 2022	12:15:00 PM	1:15:00 PM	Cloud, Capacity	When the cloud servers rightsizing algorithm calculates the baseline level for the current year application server's usage, the seasonal adjustment needs to be calculated and applied by adding the additional anticipated change, which could be increasing or decreasing the capacity usage. We describe the method and illustrate it against the real data. The cloud servers rightsizing recommendation generated based on seasonality adjustments, would reflect the seasonal patterns, and prevent any potential capacity issues or reduce an excess capacity. The ability to keep multi-year historical data of 4 main subsystems of application servers' capacity usage opens the opportunity to detect seasonality changes and estimate additional capacity needs for CPU, memory, disk I/Os, and network. A multi-subsystem approach is necessary, as very often the nature of the application could be not CPU but I/Os or Memory or Network-intensive. Applying the method daily allows downsizing correctly if the peak season passes and the available capacity should be decreased, which is a good way to achieve cost savings. In the session, the detailed seasonality adjustment method is described and illustrated against the real data. The method is based on and developed by the author's SETDS methodology, which treats the seasonal variation as an exception (anomaly) and calculates adjustments as variations from a linear trend.	Igor Trubin	IT Manager
Containers Beyond Expectations: Managing Physical Desktop Computers with Containers and Kubernetes	February 4, 2022	12:15:00 PM	1:15:00 PM	Cloud, Capacity, Containers	Just before the pandemic, a colleague and I were looking at taking over the management of our workshop computers for the conferences we put on with our company. After using our Edge computing and cloud native experience, we came up with a solution where we would use fully loaded desktop linux distro containers to run each attendee's workshop computer that we provided. It's a story about Edge computing, containers, and kubernetes working together to manage all of the resources needed to run a successful in-person workshop. I will talk about how we built those containers and how they were managed and scheduled while stretching the use of containers and Edge Compute using cloud native technologies. In this talk you will learn the technologies we used to build KubeDesktop, how we built it, and some of the key gotchas when using Kubernetes and containers to manage a full user desktop machine.	Jock Reed	Technologist/Developer Advocate
Modernizing Mainframe using Cloud	February 4, 2022	12:15:00 PM	1:15:00 PM	zOS, Cloud	The modernization of the mainframe is not lift and shift. It does not mean a complete replacement of the mainframe. It is moving the applications to a cloud, migrating the database to a cloud-based database, and replacing the part of the mainframe applications in an evolutionary way. You can use low code platforms and no-code platforms to cut down the effort and lessen the risk.	Bhagvan Kommadi	Director of Product Engg
Networking Session	February 4, 2022	1:15:00 PM	1:30:00 PM	Networking	Join your peers for a virtual networking session!	Everyone's a Speaker	