

Zero Trust Architecture and DevSecOps for Cloud-Native Applications

Tetrade

MC: Dr. Michaela Iorga, Senior Security Technical Lead, NIST

NIST
National Institute of
Standards and Technology
U.S. Department of Commerce

Thursday, January 27, 2022

11:00 am EST [10]
8:00 am PST

Opening Remarks

Dr. Michaela Iorga, Senior Security Technical Lead, NIST
Zack Butcher, Founding Engineer, Tetrade

11:10 am EST [25]
8:10 am PST

Keynote: Zero Trust the Hard Way

Kelsey Hightower, Principal Engineer, Google

11:35 am EST [25]
8:35 am PST

How to Use SASE and CASCE to Connect and Secure Distributed Applications and Users

Joe Skorupa, VP Distinguished Analyst, Gartner

12:00 pm EST [25]
9:00 am PST

Transitioning to Engineering-based Cybersecurity: SP 800-160 and Applying Design Principles to Develop Trustworthy SecSure Systems

Dr. Ronald Ross, Fellow, NIST

12:25 pm EST [10]
9:25 am PST

Break

12:35 pm EST [25]
9:35 am PST

External Authorization: A Deep Dive on SP 800-204B (Attribute-based Access Control for Microservices-based Applications using a Service Mesh)

Zack Butcher, Founding Engineer, Tetrade

1:00 pm EST [25]
10:00 am PST

SP 800-204C: Implementation of DevSecOps for a Microservices-based Application with Service Mesh

Dr. Ramaswamy Chandramouli, Senior Computer Scientist, NIST

1:25 pm EST [25]
10:25 am PST

Platform One: Successes with Istio, DevSecOps, and ZTA

Gabriel R. Scarberry, USAF Platform One
Christopher Rice, Senior Solutions Engineer, Tetrade

1:50 pm EST [45]
10:50 am PST

Lunch (See Information Below)

2:35 pm EST [25]
11:35 pm PST

Keynote: Leadership in Turbulent Times

André Mendes, Chief Information Officer, Department of Commerce

3:00 pm EST [25]
12:00 pm PST

Continuous ATO with Open Security Controls Assessment Language (OSCAL)

Dr. Michaela Iorga, Senior Security Technical Lead, NIST

3:25 pm EST [10]
12:25 pm PST

Break

3:35 pm EST [45]
12:35 pm PST

Demo: Service Mesh as the Security Kernel for Zero Trust Platforms

Ignasi Barrera, Founding Engineer, Tetrade

Demo: BLOSS@M (Blockchain-based Secure Software Assets Management) & NGAC for Smart Contracts

Joshua Roberts, Computer Scientist, NIST

4:20 pm EST [50]
1:20 pm PST

Panel: ZTA in Practice

Moderator: **Adam Zwick**, Global Solutions Engineer, Tetrade
Aradhna Chetal, Senior Director Executive of Cloud Security, TIAA
Alex Shulman-Peleg, Managing Director, Cloud Security Practice Leader, Ernst & Young
Robert Wood, CISO, Centers for Medicare and Medicaid Services, HHS
Vishwas Manral, Founder, Nanosec
Quint Van Deman, Principal, Office of the CISO, AWS Security

5:10 pm EST [10]
2:10 pm PST

Closing Remarks

Matthew Scholl, Chief, Computer Security Division, NIST

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Lunch Time Breakout Rooms (Parallel Tracks)

1:50 pm EST [10]
10:50 am PST

Break to grab lunch and join breakouts

2:00 pm EST [30]
11:00 am PST

Networking Rooms

Bring your lunch and discuss your concerns and aspirations around these new and emerging technologies with experts in each field.

Mesh and Runtime Security

Hosted By: [Ignasi Barrera \(Tetrade\)](#)

vRoom 1

DevSecOps

Hosted By: [Adam Zwickey \(Tetrade\)](#), [Ramaswamy Chandramouli \(NIST\)](#)

vRoom 2

Multi-Cloud Challenges (ZTA)

Hosted By: [Zack Butcher \(Tetrade\)](#), [Ned Goren \(NIST\)](#)

vRoom 3

Continuous Assessment / Continuous ATO

Hosted By: [Christopher Rice \(Tetrade\)](#), [Alexander Stein \(NIST\)](#)

vRoom 4

2:00 pm EST [30]
11:00 am PST

NIST Movies Entertainment Room

Enjoy your lunch during a showing an Emmy-Award short movie.

vRoom 5

2:30 pm EST [5]
11:30 am PST

Reconvene for main event