

Workshop Overview & Background

Tim Polk, NCCoE

NIST Overview

- Operational Notes
- Background & Motivations
- Workshop Format
- Goals

- This is the NCCoE's second attempt at our first fully virtual workshop
 - Presentations were pre-recorded, but Q&A will be live
 - The complexity of the composed system and our inexperience with certain tools slowed troubleshooting in the first pass
- As with the first workshop, we appreciate attendees using the chat feature to keep us informed of any issues
- We are also interested in general thoughts on formats, tools and overall experience after the workshop
 - Please direct post-workshop thoughts to **nccoe_events@nist.gov**

NIST Background: 2016

- Enterprises depend upon TLS to secure traffic within the enterprise
- Enterprises also depend upon collection and decryption of TLS protected traffic to:
 - Achieve compliance with regulations and industry standards
 - Implement security requirements
 - Meet operational needs
- Security enhancements incorporated in TLS 1.3 will preclude popular mechanisms for achieving visibility into TLS protected traffic

NIST Background, cont'd

- The IETF considered these requirements, but determined that proposed changes to TLS preserving visibility were incompatible with the SDO's goals, and could be achieved through other means
- Loss of visibility is not unique to TLS-based applications. Widely used protocols are subject to continuous enhancement, so loss of visibility will continue.

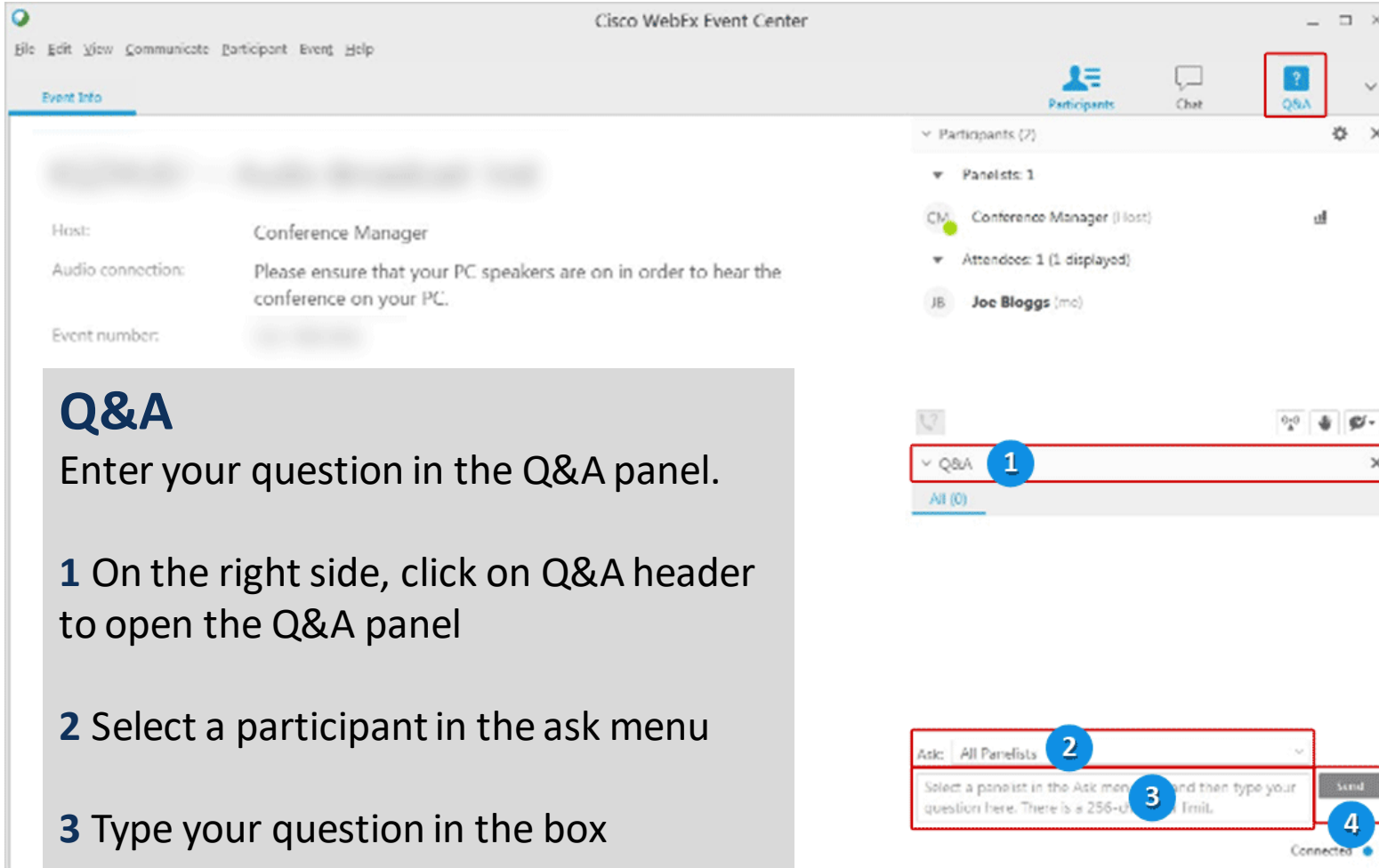
NIST Workshop Goals

- The NCCoE wishes to demonstrate and document a range of solutions to maintain Enterprise visibility to meet common enterprise challenges in compliance, operations, and security
- By holding this workshop, we hope to gain insight into the types of solutions where an NCCoE demonstration project and documentation would most benefit the community

NIST Workshop Format

- The workshop is organized into three sessions:
 - Session 1: Background information
 - Session 2:
 - Challenges enterprises commonly address through visibility into TLS sessions, including:
 - Compliance;
 - Operations; and
 - Security
 - Scenarios for examination and demonstration of solution
 - Session 3: A range of solutions to help enterprises meet those challenges
- Each session ends with a Q&A period

NIST Feedback & Questions



The screenshot shows the Cisco WebEx Event Center interface. On the right side, there is a 'Participants' panel with a 'Q&A' header highlighted by a red box and a blue circle with the number 1. Below this, there is a 'Q&A' section with a dropdown menu for 'Ask:' set to 'All Panelists', highlighted by a red box and a blue circle with the number 2. A text input box for the question is highlighted by a red box and a blue circle with the number 3. To the right of the input box is a 'Send' button highlighted by a red box and a blue circle with the number 4. The main area of the interface shows event information and a list of participants.

Q&A
Enter your question in the Q&A panel.

- 1 On the right side, click on Q&A header to open the Q&A panel
- 2 Select a participant in the ask menu
- 3 Type your question in the box
- 4 Click **send** or **send privately**

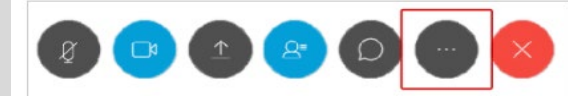
Q&A

Alternate way to use

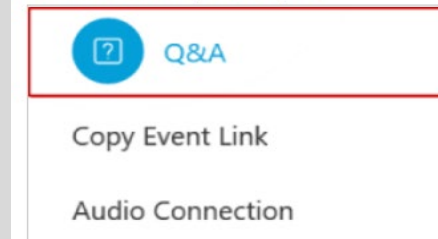
1

In the toolbar at the bottom, click on the 3-dot button

2



On the menu, click Q&A



3 Type your question in the box

4 Click **send** or **send privately**

Questions and feedback may be submitted via Webex Q&A during the presentations.

**Questions will be addressed at the
end of each session as part of a
moderated discussion.**

The background is a dark blue gradient with a complex network of thin, light blue lines connecting small, semi-transparent nodes in various colors (blue, green, orange). A large, white, semi-transparent rectangle is centered on the slide, containing the text "Thank you!".

Thank you!