Inaugural CSA Distinguished Speaker Series – Timothy Grance Post Event Report

19 July 2019 | Lifelong Learning Institute, Singapore

Distinguished Speaker

The Distinguished Speaker Series (DSS) bring thought leaders of international renown to provide insights to salient topics and trends in cloud computing & security. With contents that are thought provoking and discussion stimulating, the DSS platform is a driving force that germinates new innovation.

The Inaugural CSA Distinguished Speaker Series lecture had the honour of featuring Timothy GRANCE (Senior Computer Scientist, NIST), who is famously known for co-authoring 'The NIST Definition of Cloud Computing'. Dr. Hing-Yan LEE (EVP APAC, CSA) commenced the session with welcome remarks and a warm introduction to Timothy. In a three-part presentation, Timothy shared on 'Cloud Computing: 2007 to 2027 and Beyond'. Foreseeing formidable potential in cloud capabilities, Timothy and his colleague attempted to define the topic, associated security issues and reconcile the disparate industry and academic views. Some key take-aways from his presentation were:

- He covered trustworthy attributes for cloud that should only be considered within a system context [(1) Satisfies requirements/specs (2) Satisfies development processes (e.g., CMM) (3) Fit for purpose/operation] and highlighted that eventual target environments must be anticipated.

- NIST is acting as a catalyst to promote adoption of cloud standards through a planned roadmap that considers the fungibility of cloud and enables and fosters value add on services. His vision for cloud standards is for them to provide advice

to industry and government, for the creation and management of relevant cloud computing standards allowing all parties to gain the maximum value from cloud computing.

- The 'Why' and 'How' of Cloud migration. 'Why'? Cost savings, power savings, green savings, increased agility in software deployment are among the 'why' to migration to cloud. How we adopt and deploy cloud computing solutions may be defined and driven by cloud security issues. Most clouds will require very strong security controls and all models of cloud may be used for differing tradeoffs between threat exposure and efficiency. There is no one "cloud".

- Standardization in the cloud is a good thing. However, the worst thing we can do is to venture into standardization too early, which would be overly restrictive, stifling innovation. Nor would it be advisable to start the standardization journey too late in the game. The challenge would be to identify the 'Goldilocks moment' to venture into standardization.

- The perspective of handling PII should be updated. PII should be 'treated like toxic waste', something employees would not store in their cars nor bring home; that is, treat PII with great care and caution. The same mindset is applicable when it comes to considerations in protecting PII in the cloud.

Ms May-Ann LIM (Executive Director, Asia Cloud Computing Association) was the moderator for the closing Q&A segment.

For Timothy GRANCE's full biodata, please refer to Annex A.
For the full program, please refer to Annex B.
For the photos taken at the session, please see Annex C.

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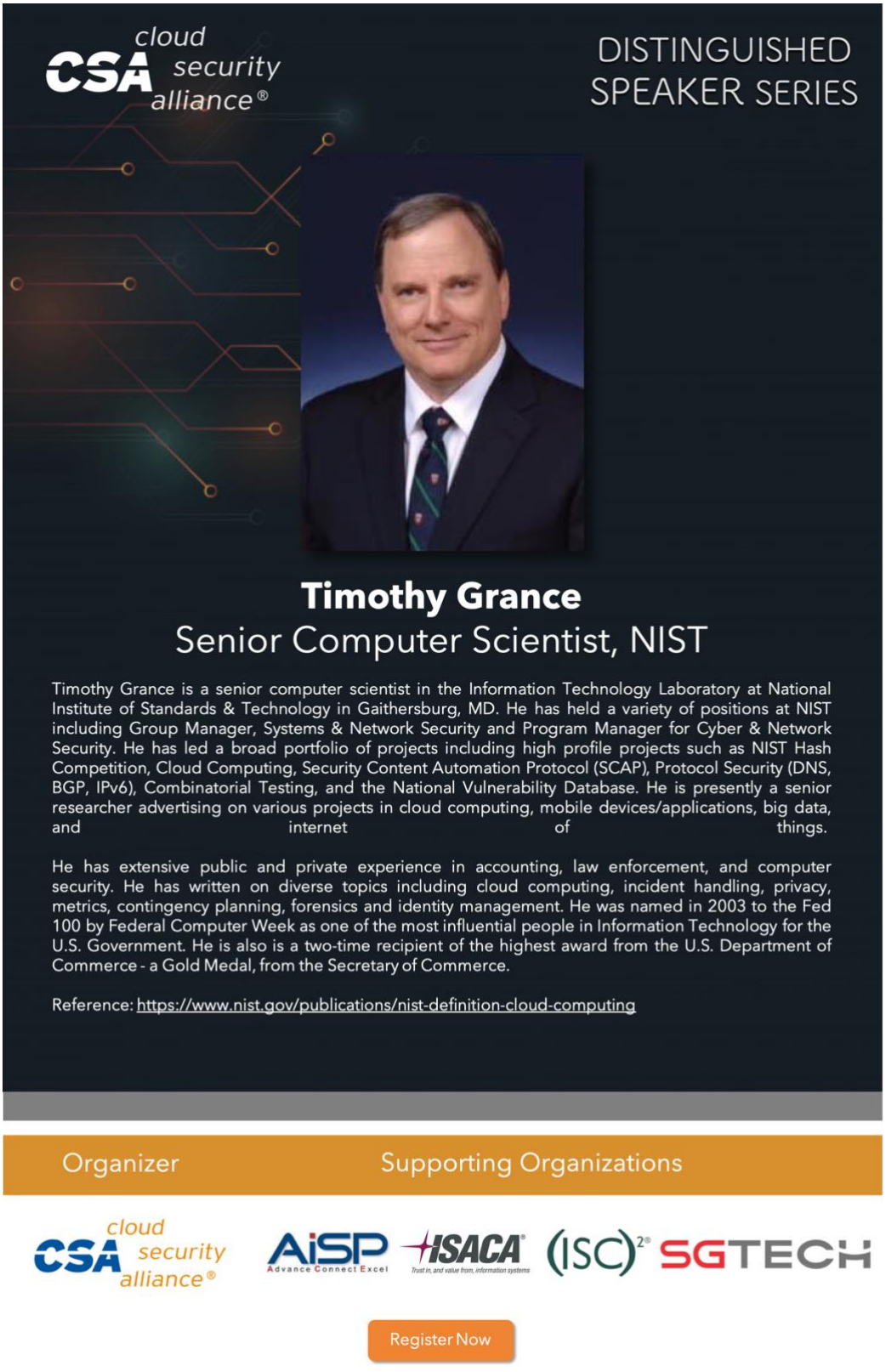

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DISTINGUISHED SPEAKER SERIES

Cloud Computing: 2007 to 2027 and Beyond

Timothy Grance
Senior Computer Scientist
NIST

19 July 2019
0930 - 1200

Level 2, Lecture Theatre
Lifelong Learning Institute, Singapore
11 Eunos Rd 8, Singapore 408601

John McCarthy, legendary computer scientist and AI pioneer, spoke and wrote in the early 60s about time sharing computers, utility computing. These are arguably the antecedents to grid computing and cloud computing. In the early 2000s, Google, Amazon, and Sales Force began developing their formidable cloud capabilities and extolled an optimistic and bright future. However, enterprises and some IT companies (starts with an O) did not understand the promise or were actively dismissive. Into that breech stepped two computer scientists from an obscure US government research laboratory called NIST to try to authoritatively define the topic and the associated security issues and reconcile the disparate industry and academic views. This talk will describe how they did that, what they got right and wrong, and speculate on where we are headed in cloud computing.

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Timothy Grance

Senior Computer Scientist, NIST

Prominent cloud visionary, co-author of the National Institute of Standards & Technology (NIST) publication that gave us the widely accepted definition for cloud computing.

CO-AUTHOR of The NIST Definition of Cloud Computing

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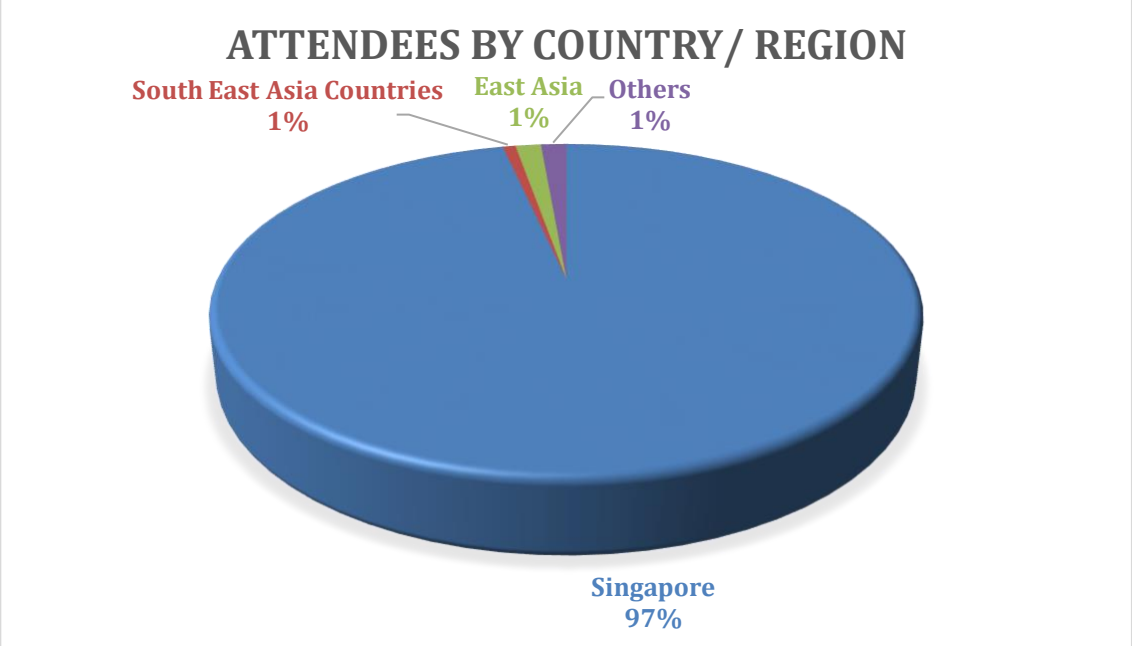
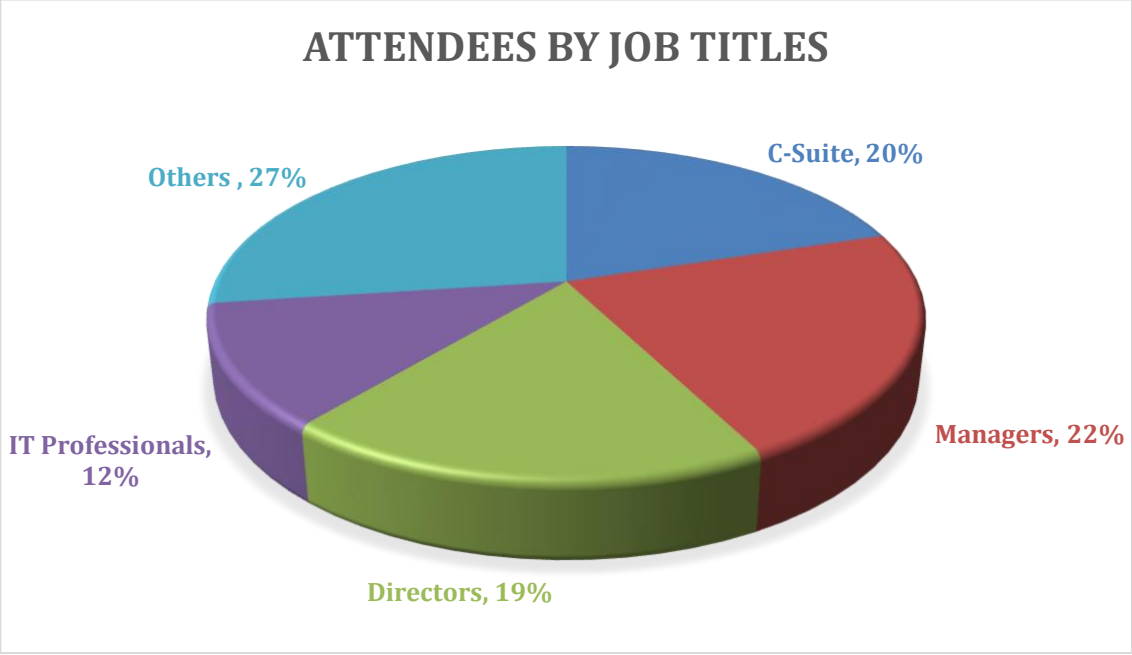
STATISTICS

The Summit saw registration of a total of 144 professionals.





The list of companies that attended the summit can be found in Annex D.

Annex A

Timothy GRANCE

Senior Computer Scientist, NIST

Timothy Grance is a senior computer scientist in the Information Technology Laboratory at National Institute of Standards & Technology in Gaithersburg, MD. He has held a variety of positions at NIST including Group Manager, Systems & Network Security and Program Manager for Cyber & Network Security. He has led a broad portfolio of projects including high profile projects such as NIST Hash Competition, Cloud Computing, Security Content Automation Protocol (SCAP), Protocol Security (DNS, BGP, IPv6), Combinatorial Testing, and the National Vulnerability Database. He is presently a senior researcher advertising on various projects in cloud computing, mobile devices/applications, big data, and internet of things.

He has extensive public and private experience in accounting, law enforcement, and computer security. He has written on diverse topics including cloud computing, incident handling, privacy, metrics, contingency planning, forensics and identity management. He was named in 2003 to the Fed 100 by Federal Computer Week as one of the most influential people in Information Technology for the U.S. Government. He is also is a two-time recipient of the highest award from the U.S. Department of Commerce - a Gold Medal, from the Secretary of Commerce.
Reference: https://www.nist.gov/publications/nist-definition-cloud-computing

Annex B

Time	Activity
0900 - 0930	**Registration**
0930 - 0940	**Welcome Remarks and Introduction of Distinguished Speaker** **Dr. Hing-Yan LEE,** Executive Vice President APAC, Cloud Security Alliance
0940 - 1030	**Cloud Computing: 2007 to 2027 and Beyond** **Timothy GRANCE,** Senior Computer Scientist, NIST
1030 - 1050	**Questions & Answers** Moderated by **Ms. May-Ann LIM**, Executive Director, Asia Cloud Computing Association
1050	**Closing**

Download the presentation slides here.

Annex C

Dr. Hing-Yan LEE (EVP APAC, CSA) giving his welcome remarks and introducing Timothy GRANCE.

Timothy GRANCE (Senior Computer Scientist, NIST) presenting on 'Cloud Computing: 2007 to 2027 and Beyond'


Ms. May-Ann LIM (Executive Director, Asia Cloud Computing Association) and Timothy GRANCE (Senior Computer Scientist, NIST)

Group photo of (left to right) Dr. Hing-Yan LEE (EVP APAC, CSA), Timothy GRANCE (Senior Computer Scientist, NIST) and Ms. May-Ann LIM (Executive Director, Asia Cloud Computing Association)

Annex D

3D Aero Sterlings	Aviva Asia	DSTA	Infocomm Media Development Authority (IMDA)	Republic Polytechnic
3top Consulting Pte Ltd	Backers	Dynafense	Infosec Ventures	RF Pte
A*STAR	BDO Advisory	Eloquent Solutions Pte Ltd	iSmart Communications Pte Ltd	SecureAge Technology
Acclivis	BNPP	Emerson	KDi Asia Pte. Ltd	SIT
Acronis Asia Pte Ltd	Bosch	Enterprise Singapore	KWOK Group LLP	Socomec
Agarwal Pte Ltd	Cargill	EPGO Consulting Pte Ltd	Micro Focus	ST Electronics (Info-Security) Pte Ltd
AIM Chemicals	CDNetworks	Ericsson	Microsoft	ST Electronics (Info-Software Systems) Pte Ltd
AiSP	Cisco Systems	Evvo Labs Pte Ltd	Ministry of Education	ST Engineering
Amazon Web Services	Citi	Fortiedge Pte Ltd.	Monetary Authority of Singapore	Symantec
Arkema Pte Ltd	Cloud Ace	Fraunhofer Singapore	National Supercomputing Centre Singapore	Telin Singapore
Ascendas-Singbridge Pte Ltd	Cloud Security Alliance APAC	Futurelinks International Pte Ltd	National University of Singapore	Tenaris

Asia Cloud Computing Association	Cyber Security Agency	GIC	NCK	Tindo Pte Ltd
Asian	Cyberproof	Global Logistics	OneConnect Financial Technology	ValueMax Group Ltd
Association of Information Security Professionals	Cyberservices SG	GovTech	Orange Business Services	Workato
A*Star	Dell Technologies	Huawei Singapore	Organisation Resilience Management Pte Ltd	
Athena Dynamics Pte Ltd	Deskera Singapore Pte Ltd	IHiS	PSA Corporation Ltd	
Attila Cybertech Pte Ltd	Deutsche Bank Group	Imperial Lifestyle	Pymetrics	

Contact Us

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