

HPC Cloud Security Stakeholders Platform (HCSSP)

Jon LAU

Director of Business Development APAC
Cloud Security Alliance

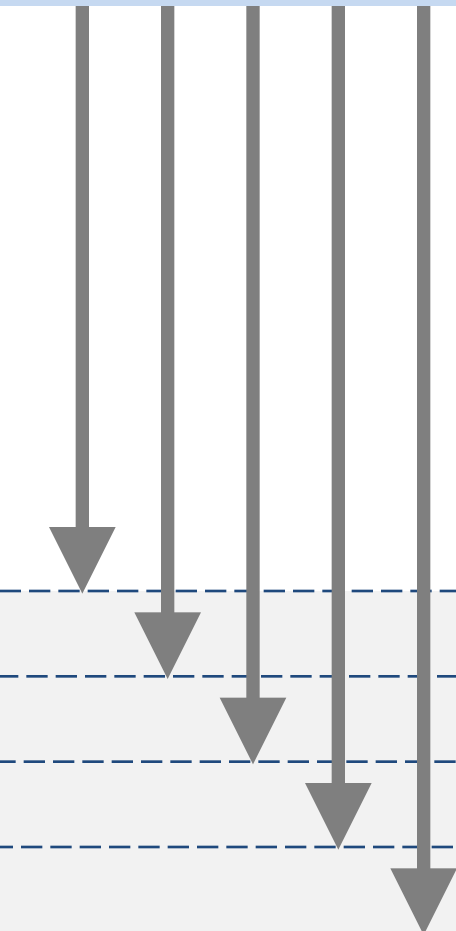


HPC Cloud Security WG

We recently started the HPC Cloud Security WG.

With more discussions, more HPC topics may evolve and separate HPC Cloud Working Groups may be formed for each for focused purpose.

HPC Cloud Security Stakeholders Platform



HPC Cloud Security WG

We recently started the HPC Cloud Security WG.

With more discussions, more HPC topics may evolve and separate HPC Cloud Working Groups may be formed for each for focused purpose.

Reference Example:

Financial Services Stakeholders Platform (FSSP)

- Aims to provide knowledge/guidance on how to deliver and/or manage secure cloud solutions in the financial industry and to foster cloud awareness within the sector and related industries.
- Objectives:
 - Best practices & de-facto standards in areas of cloud governance & risk management
 - Regional/Global mechanisms for security & privacy compliance
 - Global best practices/de-facto standards for incident management & info sharing
 - Technical solutions that can improve security capabilities of the financial sectors
 - Recommendations addressed to policy makers and regulators
 - Awareness and educational materials addressed to regulators, financial service risk/security/compliance/audit officers, and cloud service providers

Reference Example: Financial Services Stakeholders Platform (FSSP)

- Eligible members are:
 - CSA enterprise customer corporate members operating in the financial institution sector (FIs)
 - CSA solution provider corporate members (CSPs)
 - Financial service regulators / supervisory authority / central banks (Regulators), and other relevant organizations (DPA, Agencies, etc.)

Reference Example: Cloud Control Matrix (CCM)

About CCM

- Provides **fundamental security principles** to guide cloud vendors and to assist prospective cloud customers in **assessing the overall security risk of a cloud provider**.
- Provides a **controls framework** that gives detailed understanding of security concepts and principles that are aligned to the Cloud Security Alliance guidance in 13 domains.
- Mapped against **multiple industry standards, regulations and frameworks** including ISO27001/27002, PCI, DSS, HIPAA, COBIT, NIST CDF, FedRAMP.

HPC Cloud Security Stakeholders Platform

Participants

- Commercial HPC Cloud Service Providers
- Funded Supercomputing Centres
- HPC Solution Providers
- Enterprise Users of HPC Cloud

Objective

- To increase the level of assurance and trust in the HPC Cloud deployments for both commercial cloud service providers and funded HPC supercomputing centres

With the many topics raised by the HPC Cloud Security Working Group, it is necessary and important to prioritise and set the direction

Possible initial participants of HCSSP

Funded Supercomputing Centres

- NSCC

Commercial HPC CSP

- AWS
- Google Cloud
- MS Azure

Technology Vendors

- Check Point
- Dell
- Fujitsu
- Intel
- Redhat
- Palo Alto

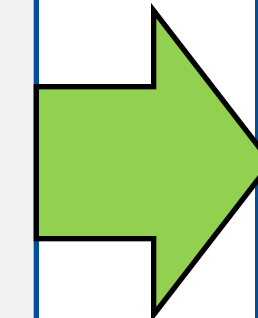
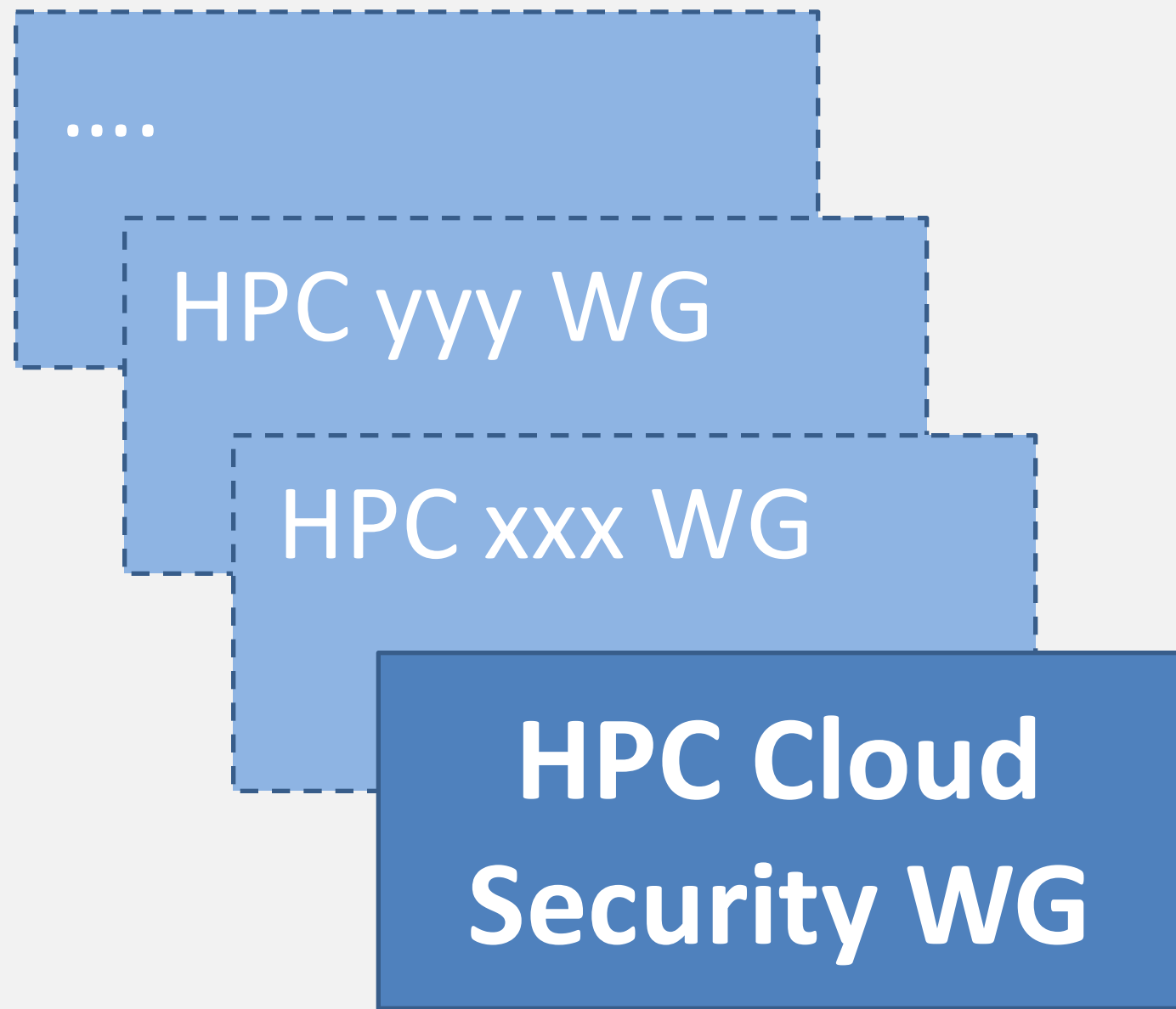
Come Join Us at other Summits

Event	Dates	Location
CSA Vietnam Summit	11 April	HCM, Vietnam
CSA APAC Summit	8 May	Singapore
CSA APAC Forum (organised back-to-back with Cyberweek)	22 - 23 June	Tel Aviv, Israel
CSA Indonesia Summit	18 July	Jakarta, Indonesia
CSA Philippines Summit	19 July	Manila, Philippines
CSA APAC Congress / ASEAN Summit	24 - 25 July	Bangkok, Thailand
CSA Taiwan Summit	July	Taipei, Taiwan
CSA Malaysia Summit	1 August	Kuala Lumpur, Malaysia
CSA Summit @ ISC	21 August	Beijing, China
CSA Bangalore Summit	9 September	Bangalore, India
CSA New Delhi Summit	11 September	Delhi, India
CSA Hyderabad Summit	14 September	Hyderabad, India
CSA Singapore Summit	tbc	Singapore

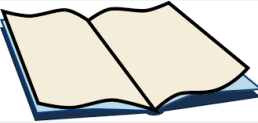

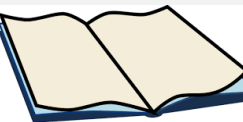
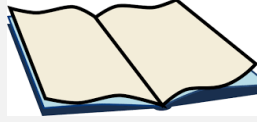

See you at one of our Summits!

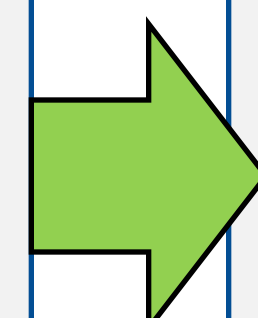
HPC Cloud Security WGs & Possible Deliverables / Products

HPC Cloud Security Research WGs. Additional relevant WGs can be spun off as a result of discussions within the HCSSP.

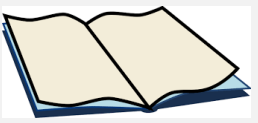
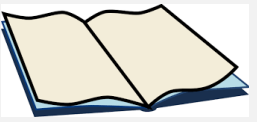



Deliverables from the WGs will be influenced by the HCSSP

- Security Recommendations for HPC Cloud 
- CCM for AWS HPC Cloud 
- CCM for Google HPC Cloud 
- CCM for Microsoft HPC Cloud 
- ...
CCM-ABC HPC HPC Cloud 



Deliverables can be combined/evolved/streamlined to frameworks applicable to the HPC Cloud industry in general

- Reference Models for Secured HPC Cloud 
- CCM for HPC Cloud 
- Secured HPC Cloud Certification 

HPC Cloud Security Stakeholders Platform

Possible areas/tasks:

- Develop the HPC Cloud Security Certification framework
- Share HPC Cloud Security best practices
- Develop best practices in HPC Cloud Resiliency
- Update on Best Practices in HPC Cloud Security so as to narrow the security gaps for leading-edge HPC Cloud deployments