SOCIETY OF DEFENCE TECHNOLOGISTS

Seminar on

Cloud Computing,
Software Validation
&
Cyber Security

Date:- 07th December 2013

VENUE: The Capitol Hotel
No 3 Raj Bhavan Road
Bangalore

About The Workshop

Cloud Computing

Contents

Cloud Computing Vs. Traditional IT

Economics of Cloud Computing

Cloud Computing Stacks - IaaS, PaaS, SaaS

Cloud Computing - Delivery Mechanisms

Cloud Security, Migration to Cloud

Defense Applications - Requirements on Cloud Computing

Cloud Computing - Benefits and Challenges for Defense Applications

Cyber Security

Contents

Introduction to Cyber Security

Cyber Security challenges in Defense Context

Mitigation Techniques

Cyber Forensics Overview

Case Study:

1) Disk forensics

- Identifying different digital storage devices

- Acquiring the Storage devices

- Analyzing the Storage devices

- Securing of Storage devices

2) Debugging of HTTP

- Capturing of HTTP traffic

- Modification of HTTP traffic

- Securing of HTTP traffic

Software Validation

Contents

1. Software Verification & Validation

2. Case Study.

BRIEF BIO-DATA OF SPEAKERS.

Dr. Prahlada Rao is currently working as Joint Director and Head of System Software Development for HPC Grid & Cloud Group of C-DAC, Bangalore. He received his Ph.D in Computer Science & Automation, from IISc Bangalore in year 1995, M.Tech from IIT-Kharagpur in 1981, and B.Tech from JNTU-Kakinada in 1979. He is specialized in Cloud Computing, Grid Computing, Software/Tools Development for Parallel Computing, EDA/VLSI Optimization Algorithms, Evolutionary Computing, Genetic Algorithms, Industry Academic Interactions, and Innovations.Served as an Invited Faculty for MS Program in VLSI, BITS-Pilani during 2002-05.

Suresh BG (BE, MS), CEO, Founder, Saranyu Technologies, is a veteran in the high technology IT industry having over 23 years of experience. He has worked with 3 Multinational companies (Texas Instruments, Tektronix, Bell Labs Development Center), 1 high technology startup (Ittiam Systems) in the domains of VLSI CAD, Internet Technologies, 2G/3G Cellular Communications, Wireless LAN, Multimedia (Video), Mobiles & Smart phones and Cloud Computing. In September 2011, he founded a high technology startup, Saranyu Technologies that focuses on building Mobile Cloud platforms for Video based applications and services. He has in the past conducted several industry grade training programs in Advanced C/ C++/Perl Programming, Distributed Computing, Wireless LAN, Software Processes, Time Management, and Intellectual Property.

Shri E.Kamalakar Rao, BE in Electronics and Communication Engineering. Has certifications CSTM,CSQP , ISMS Auditor. presently Scientist"F" at STQC IT Services, Bangalore. He has 25 years experience in Testing and Quality of Electronics Components and Equipments. From last 12 years working in Software Test Laboratory at STQC as Head of Security Testing. Handled various Independent Verification and Validation projects for e-governance and defence.

Cdr SP Sathyanarayana is serving in Indian Navy from last 24 years and has served onboard ships & establishments in various capacities. Presently posted at CQAE (WE) / DGQA, Bangalore as Deputy Chief Quality Assurance Officer and carrying out Quality Assurance activities of Naval Equipment / systems manufactured by M/s BEL, Bangalore. Received BE degree in (E&C) from Mysore University. He has the experience of installation / Trials& system integration of weapons, Sensors and complex electronic & software intensive systems on board naval ships and submarines.

Mrs M Hemavathy is working as a Member Senior Research Staff in the Network group of Central Research Laboratory of Bharat Electronics Ltd, Bangalore. She received her ME degree from NIT-Trichy in Computer Science. She is having 16+ Years of experience in Information Security. She has published & participated in national & international conferences in this work area. Her research interests & specialized work area includes Secure Transaction Protocols, Storage Security, Public Key Infrastructure, Web Security & Security Testing for Defense Networks. She is a recipient of Raksha Mantri's innovation award for Design & Development of Citizen Card Verification System in the year 2003-04.

Mr Saurabh Samanta is working as a Member Research Staff in the Network group of Central Research Laboratory of Bharat Electronics Ltd, Bangalore. He received BE degree from Ramdev baba Kamla Nehru Engineering College, Nagpur in Computer Science & M.Tech degree from NIT-Suratkal in Information Security. His research interest in Network Security includes, Disk Encryption Technologies, Storage Protocols, Vulnerability Assessment & Penetration Testing and Ethical Hacking.

PROGRAMME DETAILS

Date:- 07th December 2013

09:00 - 09:30	Registration
09:30 - 10:00	Inauguration
10:00 – 11.00	**Overview on Cloud Computing**
	Dr Prahlada Rao C-DAC
11:00 - 11:15	Tea Break
11:15 - 13:00	**Cloud Security & Migration to Cloud**
	Mr B.G Suresh
13:00 - 14:00	Lunch Break
14:00 - 15:15	**Software validation and Case Study**
	Shri E.Kamalakar Rao, STQC and Cdr SP Sathyanarayana, DGQA
15:15 - 15:30	Tea Break
15:30 - 16:30	**Cyber Security Overview**
	Mrs M Hemavathy
16:30 -17:30	**Cyber Forensics**
	Mr Saurabh Samanta
17:30 -18:00	Feedback & Concluding Session

Registration: - Registration fee will be Rs.4,000/- per delegate. Payment shall be made by D.D,Cheque / Fund Transfer in favour of Secretary General, SODET

payable at Bangalore. For further details please contact:- Secretary

General, Society of Defence Technologists C/o Bharat Electronics

Limited, Bangalore – 560 013.**Telefax:-080-28382612,**

E-mail:- sodet@bel.co.in, **Web Site:-** www.sodet.in

SODET Bank Details for sending the amount through fund transfer.

Name of the Bank	: -	State Bank of India
PAN NO.	:-	AADTS1687A
Name of the Branch	: -	Jalahalli
Account No	: -	10838595127
A/c Holder	: -	Society of Defence Technologists
MICR Code	: -	560002024
IFSC Code of the Bank	: -	SBIN0000963
Account Type	: -	Current Account