

Registration fee includes Kit, Working Lunch, Tea and Snacks.

The Registration fee may be paid through Cheque / Demand Draft / NEFT in favour of SETS payable at Chennai.

A/C No. 430969098  
Bank Name: Indian Bank  
Branch: LB Road  
IFSC: IDIB000L006

Registration fee along with application should be sent to the Coordinator on or before 20<sup>th</sup> October 2018.

(Spot registration can be done Subject to availability)

**Technical Coordinator (s)**

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Coordinator  
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nageswar@setsindia.net

**REGISTRATION FORM**

Name: .....  
Designation: .....  
Organisation:.....  
.....  
Address:.....  
.....  
.....  
Pin: .....  
Mobile: .....  
Email: .....

**REGISTRATION DETAILS:**

- Rs. 4000/- for Industry Executive / Professional
- Rs. 2000/- for Govt. and Academic Staff
- Rs. 1000/- for Research Scholars / Students

**DETAILS OF PAYMENT:**

Draft / Cheque No./ NEFT .....  
Date: .....  
Name of the Bank: .....

Date:  
Place:

Signature

**Training Programme on  
Linux Network Programming  
in 'C' Language**

**23<sup>rd</sup> & 24<sup>th</sup> October 2018**



*Organised by*



Strategy and Synergy for Security

**Society for Electronic Transactions and  
Security (SETS)**  
(A Government of India Initiative)  
MGR Knowledge City, CIT Campus,  
Taramani, Chennai – 600 113  
www.setsindia.in  
(Near Ramanujan IT City / IITM Research Park)

## ABOUT SETS

The Society for Electronic Transactions and Security (SETS) was set-up as a premier Research Institution to work in the area of Information Security under the office of Principal Scientific Advisor to Government of India. It has established an “Advanced Facility in Information Security and Cryptology (AFISC)” working in the research areas of Information Security as Knowledge Centre with the following objectives:

- Knowledge Creation in Cryptology, Hardware Security and Network Security to meet the specific long-term and short-term needs of the Nation.
- Knowledge Application by translating the knowledge created into solutions/ products to meet the specific needs of the organizations in collaboration with academia and industry.
- Knowledge Dissemination through sharing its expertise by organizing training programs, workshops and National conferences

## TRAINING PROGRAMME

The range and scope of technologies that leverage Linux is large and growing rapidly. We can't ignore the proliferation of Linux-based projects such as OpenStack, Docker, and Kubernetes and the impact they are having in the IT space. Having a solid understanding of

Linux as it relates to both basic system administrations and networking is a skill worth having. As software developers, we find ourselves challenged by the ubiquity of the Internet on a daily basis as we often need or want to provide some level of network service within our applications. Whether our goal is to enable multiple users to access a centralized service, or even authenticate a user's identity prior to giving him access to an application, network programming is a seemingly dark art practiced by only the most experienced developers. C is the commonly used programming language in industry. C is one of the foundations for modern information technology (IT) and computer science (CS). Once students learn C, it is easy for them to learn any other computer languages without much difficulty by themselves. Many working principles of IT and CS, such as programming languages, computer architectures, operating systems, network communication are based on or reflected in the functionalities and features of C. The experience in C will help students understand the working principles of these important concepts in IT and CS. The main objective of this workshop is giving participants hands on experience in Linux network programming using C language at beginner level.

- Linux overview & System calls API
- Networks Introduction
- Network tools
- Basics in Shell scripts
- C programming - interview questions
- Multi-threading
- Socket programming
- Linux Security Model
- Secure socket programming (openssl)

## PREREQUISITES

- Exposure to C programming language
- Participants should bring their laptops with Linux preferably Ubuntu installed:
- In case of Windows, participant should have installed Ubuntu in Oracle VirtualBox

## SPEAKERS

- R&D team of SETS

## WHO SHOULD ATTEND

- Working Scientists and Engineers
- Engineering Faculty
- Software developers from industries
- Research / PG Students

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