Glance Volume:2 Issue:2 Februry - 2016 A Brief Intro About the dapartment KKR & KSR Institute of Technology & Sciences C++ XML Big Data HTML JAVA CSS Cloud computing JS PHP **Department of CSE** Learn languages, it makes you grow like a tree in a technical world. Editors: Prof. R.Ramesh HOD - CSE , Dr.M.S.S.Sai Associate Editors : Student Co-ordinators : Advisory Committee : **D.Naveen Kumar** A.V.Raghava Rao G.Dileep Kumar Sai Abhishek Singh C.N.S.Vinoth kumar Ch.Aruna **B.Bhavani** K.Sriraman Ch.Jhansi Rani

HOD's Message:



Prof. R.Ramesh



Dr.M.S.S.Sai

Prof. R. Ramesh,the main backbone of the course is educating the student's knowledge of computer and its engineering as almost all fields are computerized to have ease of handling the problems of designing, manufacturing, maintenance, servicing, researching, marketing and accounting.

His only motto is to make students expertise in Computer Engineering Program includes computer operations on different languages, data generation, collection and utilization of information.

Dr.M.S.S. Sai is from Department of Computer Sc. & Engineering and he opines that this department will excel nationally and distinguish itself as a recognized pre-eminent leader in imparting knowledge to students and establish State of the Art Research centre in its domain.

His sole mission is to develop students to be competent and professional solution providers, Competent to learn Emerging Technology, yet be Responsible citizens who will create wealth for the nation. Article: Denial-of-service attack (DoS attack)



In computing, a **denial-of-service attack** (**DoS attack**) is a cyberattack where the perpetrator seeks to make a machine or network resource unavailable to its intended users by temporarily or indefinitely disrupting services of a host connected to the Internet. Denial of service is typically accomplished by flooding the targeted machine or resource with superfluous requests in an attempt to overload systems and prevent some or all legitimate requests from being fulfilled.^[11] A DoS attack is analogous to a group of people crowding the entry door or gate to a shop or business, and not letting legitimate parties enter into the shop or business, disrupting normal operations.

Criminal perpetrators of DoS attacks often target sites or services hosted on high-profile web servers such as banks or card payment. Revenge, blackmail and activism can motivate these attacks.

Denial-of-service attacks are characterized by an explicit attempt by attackers to prevent legitimate users of a service from using that service. In a DDoS attack, the incoming traffic flooding the victim originates from many different sources – potentially hundreds of thousands or more. This effectively makes it impossible to stop the attack simply by blocking a single IP address; plus, it is very difficult to distinguish legitimate user traffic from attack traffic when spread across so many points of origin. There are two general forms of DoS attacks: those that crash services and those that flood services. The

most serious attacks are distributed. Many attacks involve forging of IP sender addresses (IP address spoofing) so that the location of the attacking machines cannot easily be identified and so that the attack cannot be easily defeated using ingress filtering.

Distributed DoS

A **distributed denial-of-service** (**DDoS**) is a cyber-attack where the perpetrator uses more than one, often thousands of, unique IP addresses. The scale of DDoS attacks has continued to rise over recent years, even reaching over 1Tbit/s.^[7]

Advanced persistent DoS

An **advanced persistent DoS** (APDoS) is more likely to be perpetrated by an advanced persistent threat (APT): actors who are well resourced, exceptionally skilled and have access to substantial commercial grade computer resources and capacity. APDoS attacks represent a clear and emerging threat needing specialized monitoring and incident response services and the defensive capabilities of specialized DDoS mitigation service providers.

APDoS attacks are characterized by:

- advanced reconnaissance (pre-attack OSINT and extensive decoyed scanning crafted to evade detection over long periods)
- tactical execution (attack with a primary and secondary victims but focus is on Primary)
- explicit motivation (a calculated end game/goal target)
- large computing capacity (access to substantial computer power and network bandwidth resources)
- simultaneous multi-threaded OSI layer attacks (sophisticated tools operating at layers 3 through 7)
- Persistence over extended periods (utilising all the above into a concerted, well managed attack across a range of targets).

M. Jahnavi, 2nd year

Staff Achievements:

Prof. R.Ramesh, Dr.M.S.S.Sai, Mr.M.Suresh, Mr.M.Ram Kumar, Mr.B.Adinarayana reddy and Mr.K.Upendra has attended 2 day FDP on "CLOUD COMPUTING AND BIG DATA" in ST.MARY'S GROUP OF INSTITUTIONS on 26th to 27th February, 2016

Placements:

- SASKEN company on-campus drive held on 05-02-2016 in the campus, 4 members got selected in the company with 3.2 lacks package.
- EOS GLOBE company on-campus drive held on 25-02-2016 in the campus, 8 members got selected in the company with 1.6 lacks package.
- ✤ YARDSTICK company on-campus drive held on 04-02-2016 in the campus. 1 member got selected in the company with 4.0 lacks package.
- ALLSEC company off-campus drive held on 19-03-2016 in MITTAPALLY Engineering College, Guntur. 11 members got selected in the company with 1.4 lacks package.

SASKEN

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EOS GLOBE

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5	12JR1A0576	N.TRIVENI
6	12JR1A0577	N.PUSHPANJALI
7	12JR1A05A4	MD.ALLA BAKSHU
8	12JR1A05C9	K.SRUTHI
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