UPES
THE NATION BUILDERS UNIVERSITY

PRAHARI 2.0
YOU CRACK   WE TRACK

THE TAC
A venture of Prahari

Dehradun
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THREATS, ATTACKS & COUNTERS | IN THIS ISSUE

Men, Thy Firewalls

To fight the enemy, Know Thy enemy first...Hackers are your enemy. Well, who are hackers? Hackers are the people who finds new ways of getting into the security breaches that are in your system or network. They just like to crack security, that's it. Some of them do it for fun, others for intentional purpose. But for you they are always bad. You need to defend yourself against all these. This is where the concept of Security comes into picture.

Lack of Cyber Security a worry
As the global population has crossed two billion, cyber security experts are worried over the lack of security mechanism online and fear that the next generation of threats could emerge out of cyber security. There is no data secure in the cyber world. And one need to defend themselves. There is an urgent need to be updated on the information regarding cyberspace. As the non-ending fight between these two, The Cyber Criminals & The Cyber Security Experts tend to prevail, there is a larger scope of fear of threat for the Cyber Security Experts as the threats would increase to a big scale with the Cyber Security concept degrading day by day in the market.

Indian stats of Cyber Security
Although, India has proven its IT super power across the nations, still it thrives for the shortage of Cyber security Expert. And the demand is huge, too secure the existing platform so that prosperity flourish in the livelihood of each individual people. As per the estimates by Union Ministry of Information Technology, *India needs five lakh cyber security professionals by 2015 to support its fast growing internet economy.* The financial sector alone is expected to hire over two lakh people while telecos, utility sectors, power, oil & gas airlines, government (law & order and e-governmence) will hire the rest. A large number of these jobs will be around Cyberpolicing and ethical hacking, to check for network vulnerabilities. The need for cyber experts has grown exponentially as the country is heading towards the internet explosion mostly fuelled by e-Commerce, e-Banking, e-Governmence and the social media. The freedom of cyber space is just as crucial to the debate as its protection is.

Time to defend now
Can you hear them at the doors, can you hear their crawls, can you smell that foul breath, The hackers are coming. Now they come for us, they want to get our data to hack us dry till we live lifeless profiles with nothing scattered upon our infrastructure, No, I say we must stand up and defend ourself. Men, Thy Firewall...The war begins!

Emerging Trends 2014

by Shubham Soin

With the advancement of technologies in the field of IT, the demand for security also rises in every respect whether it is Mobile computing, Operating System, or Cloud Computing which is a fresh topic to debate on. You may name any technology, Security is always an issue to discuss on.

The year 2013 was a must see for trend watchers, as the NSA, National Security Agency shook the international security community. So here we have some important likely-to-prevail trends for this year ahead, listed by the Sophos Lab.

1.Attacks on corporate and personal data in the cloud.

2. Growth of 64-bit Malware with increase in adoption of 64-bit Operating Systems.

3. Exploit kits, a primary threat for windows.

4. Danger of data confidentiality from mobile computing and social networks.

5. New threats to evolve as the fight between the Security Experts and the Cyber-criminals continues to prevail, as expected.

6. Android Malware, increasingly complex seeks out new targets.

GLASS

Google Glass

The technology that is shaping today's world. What would you call it...Its nothing less than a Sixth sense device. Google welcomes you to the world through Glass, a totally innovative invention. An invention which has taken the technology to the next level. Its what you see it, exactly that is there. You say take a picture, it does that. Just speak to send the message and much more. It is the technology revolutionalizing the era. With various designs, colors and frames, its looks are as good as the technology is. Still being under exploration, the technology is much awaited by every individual. The consumer launch is expected in 2014 itself.
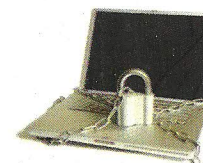
CAUTION

Remember, don't be scammed by the news, ads or mails saying to hack Facebook Accounts. Actually these are spams, in reality there is no such application or software that could crack or hack accounts automatically, whether it is Facebook, Gmail, Yahoo or any other service. Stay safe, stay secure.

Cloud Security...still a major concern

by Akshey Popli

CLOUD?

Can you depict the difference in both the architectures? Send your answers at praharireloaded@gmail.com. Three best answers to be rewarded. Winners will be listed in the next issue of 'THE TAC'.

Today's data center   Tomorrow's cloud

CLOUD, a term trending in today's tech world . But do we actually know what cloud is ??

In simple words Cloud is a broader category of grid computing. *It defines a framework to deliver IT as a service in the most efficient and the fastest way possible without a need to actually own the resources required to achieve the same, all along providing a level of transparency and monitoring.*

But here arises a question – is this really secure? Can we actually really rely on it ?Let's find this out . Security of Cloud has always been an important concern in the IT sector since its existence. Cloud Securtiy depends upon the deployment models and server. Users/Enterpreneurs now a days have variety of cloud delivery models available to meet their security needs and priorities.

A 3-tier cloud architecture is an appropriate solution to all the concerns. Public Cloud , Private Cloud and the Hybrid Cloud serves the different security and data needs of different users. A proper channel comprising of authentication and tamper-resistant mechanism is deployed which provides a strong isolation between different applications for the sake of security. Security mechanisms on handheld gadgets are at insufficient compared to say, a desktop computer .If a user relies mainly on a mobile device to access cloud data, the threat to availability is also increased due to network connectivity or in case of mobile theft . Providing this with a solution, IT experts have been working on Cryptographic functionality, which lays stress on confidential movement of traffic. This breakthrough might bring the change in cloud security levels and could enhance the security to next level.
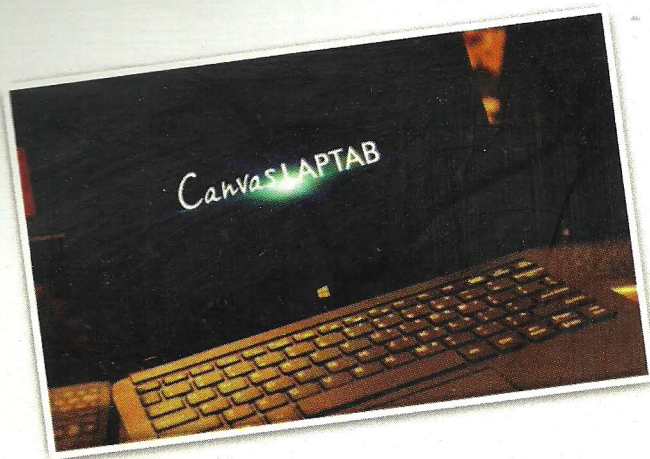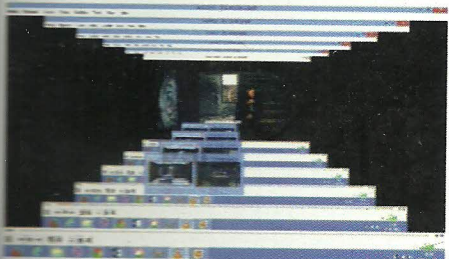
COOL TRICKS

YouTube
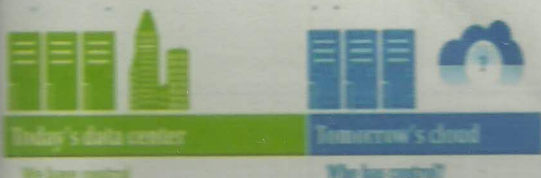
WATCH WITHOUT BUFFERING

Fed up of the loading time you have to wait for the video to respond? Of course, yes. Now enjoy your favourite Video Streaming Site with full ease and comfort. Start video from a particular position instantly without waiting it to load. Just add #t=2m30s (time) for instance, at the end of the video URL in the URL bar & click enter. For eg. www.youtube.com//watch?v=y7Vb#t=30s The video starts from the desired position. Have a happy time on Youtube..!!

VLC SCREEN MAGIC

VLC, one of the most popular cross-platform multi-media player, supports almost every audio and video formats. Have you thought of geeking with it? Check this out and trick your buddies out there. Open the VLC media-player, Press Ctrl+N, Type screen://, Click on play button. Have fun…Click cross button to terminate.

QUICK FACTS

95%

ATM machines work on the windows XP operating system.

70%

Cyber criminals who write viruses work under contract for organized crime syndicates.

CRACK THE CODE

Get the message behind the string to win exciting prizes
SWGEJLTCUOHMQECTMONPZRKALHWAYRUI
Mail us your answers at praharireloaded@gmail.com
Get a chance to be featured in the next issue of The TAC

Indian Smartphone maker Micromax, is going to release a 'LapTab' this month. To be priced under Rs.30,000 this device will work on a dual boot environment comprising Windows 8.1 & Android 4.3. With a 1.46 GHz Intel Processor, 10.1-inch HD screen powered with 7400mAH battery, this one is gonna be a promising deal.

Stay safe, Stay secure

by Shubham Soin

Security, your responsibility. It's up to you how well you prepare your system, protect it from attacks and malicious use, and last but not the least, how you prevent it for future safety.

Here we bring out the top basic security tips one should adhere to, to safeguard oneself.

1. Keep patch updated
Keep your system onto automatic updates, as an unpatched machine can be a store house of vulnerabilities.

2. Maintain Backup
Generally, we keep getting the notification for the disk backup. We hardly pay any attention to it. Backup is very important as if once your hard-disk crashes due to some of the reason, your complete data gets devastated, which at any expense can't be retrieved there after.

3. Control access to your machine
Never ever leave your machine open in your absence even if it is your room, who knows your friend would be peeping into your stuff and doing something anonymous.

4. Use internet smartly and safely
Do not ever click on the links sent to you either on social networking sites or on the even on e-mail, or if u wish to do check the link properly, It may be phishing script. Never ever click on the ads having offers like 'You are the lucky one to win i-phone 5s', these all are spams

5. Protect your confidential data
Always keep your sensitive data well protected either using locking techniques or using trusted softwares, like Truecrypt is the best example for the best data protection.

6. Install Antivirus
Have a firewall protection on your systems using any of the well-trusted anti-virus and keep it updated daily.

7. Use strong password
Try making a long strong password.

FakeOFF

Facebook introduces a new app that can detect bogus accounts. Yes FakeOFF is the app which finds all the fake fb accounts in your friend list and helps you to safeguard your identity against any of the anonymous users. You may never know that you may have maintained a very good friendship with someone, which turns out to be a fake one. So FakeOFF is keeping your online social life protected. Go the facebook apps, and start finding yours as soon as possible. One plus point of this app is that, it will never post on your behalf.
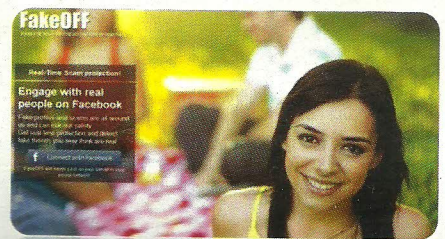
Smartphone Arena - The hot pick

by Ketan Mehta

In this issue we are going to review the new LG G2. Now, some of you might have heard about this smartphone and some wouldn't, simply because it is from LG. But trust me this phone has actually got something in it. A 2.26 GHz Qualcomm Snapdragon chipset along with Adreno 330 sparks the phone to extreme. A 5.2" Full HD IPS display with an excellent PPI density and superb viewing angles are just a few add on's to the Best Smartphone of 2013.With this phone we have to admit that LG is back in the world of smartphones and this time with a bang!

It's a high end phone, packed with a bunch of apps, sensors, features, etc etc. But let something new peep in. The 'Knock-On'. Want to lock the phone? Just tap it ! Want to unlock your device? Just tap it again and u r done !
The volume rockers and the power button are on the back and this is actually a next level innovation. A 13.1 MP primary camera and a 2.1 front camera are a class apart. The Camera quality is just amazing, be it indoor or outdoor. With a heavy doze of customization available on this device & such an elegant design this one is surely a hot pick.
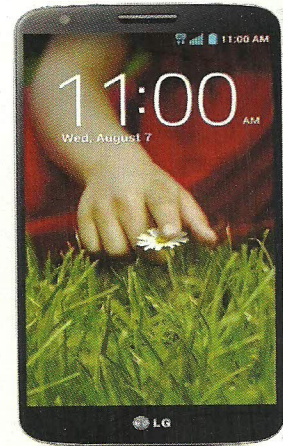
PlayStation 4 vs. Xbox One: The next-gen consoles compared!

by Eshaan Inder Singh

Verdict: The PS4's emphasis on building a gaming console first and foremost may well strike a chord with those who like to keep their consoles strictly for playing games.

The Xbox One has more of a focus on being an all-round entertainment hub, offering more third-party apps at launch than the PS4. If that's what you're interested in, then the One will offer that in spades.

Two new gaming consoles. Both very powerful. Both very ambitious. Both about to meet head to head…and do battle for your time, money and attention, as well as the fate of the universe!

Tucking in to the technical nitty-gritty, the **Xbox One** boasts an eight-core 64-bit AMD CPU clocked at 1.75GHz, with a 800Mhz AMD GPU in tow. Onboard is 8GB of DDR3 RAM, 5GB of which is allocated to games, the rest to the OS and apps.

The **PS4** takes a slightly different approach, employing a single-chip CPU and GPU in an 8-core 64-bit AMD processor that works in concert with 8GB of super-fast GDDR5 RAM. Featuring a clickable touchpad, PlayStation's DualShock 4 controller is one of the most innovative on the market. It also has a large lightbar that changes color to show players their in-game status, and works in conjunction with the PlayStation Camera for motion control. The Xbox 360 controller was considered by many to be the gold standard of gaming, but Microsoft has made a few notable tweaks including a revamped analog sticks and d-pad. The controller also gained an extra set of rumble motors for better haptic feedback.

The PS4 is priced at $399, compared to $499 for the Xbox One. Each system comes packaged with one controller, a headset, a power cord and a HDMI cable. An additional controller for each system will set you back $59.99, but even with the extra cost, the PS4 still comes out ahead in terms of pricing.

About Us : Prahari, formed around a year ago framed as UPES Anti Hacking Society, is back again as " PRAHARI 2.0 " with a much broader view regarding Security ,Workshop ,Events & Newsletter . The Society is led by a group of five, under the supervision of Dr. Vishal Kaushik. "You Crack – We Track"! That's what the tagline of Prahari says.

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