# Cyber Security Workshop 2015

"Hardening Network Security"

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### Automatic Security Updates

#### CentOS

- Yum install yum-cron
- Vi etc/yum/yum-cron.conf
- update\_cmd = default <security>

#### Debian

https://help.ubuntu.com/community/AutomaticSecurityUpdates

## SUDO

- belwase ALL=(ALL)ALL
- Strong password

### Securing SSH

- vi /etc/ssh/sshd\_config
- PermitRootLogin no # This will disable root login. Note → This step is crucial.
- X11Forwarding no # Disable X11 Forward
- AllowUsers belwase test # This will allow only belwase and test users to login
- Port xxxx #change the default port number

#### **Basic Firewall**

- iptables -P INPUT DROP && iptables -P FORWARD DROP && iptables -P OUTPUT DROP
- iptables -A INPUT/OUTPUT -i lo -j ACCEPT
- iptables -A INPUT -p tcp -m tcp --dport 22 -j ACCEPT #enabling ssh
- iptables -A INPUT -p tcp --dport 80 -j ACCEPT #Allow port 80
- In centos 7 :
  - firewall-cmd --permanent --add-service=ssh

#### SELINUX

- Provides Mandatory Access Control (MAC).
- Controls of an application of user to files, sockets, processes.
- Keep in Enforcing mode
- semanage port -a -t ssh\_port\_t -p tcp 22 # add port 22 to semanage list

## LOG Analysis

- Tools : head, tail , grep ,vi
- Logs : /var/logs/
- Syslog
- Messages
- Httpd logs
- Secure
- Auth logs
- And many more...