




# UmaShankar Gutti

## Senior Software Engineer

I am a Linux Engineer with 7 years of Experience, my skills include exploring, installing, confiuring & troubleshooting applications on linux systems. I do not limit myself only to linux, I love exploring other parts, my career include exploring and deploying Secure Web Gateway Solution on linux platform in different client setups. I would like to explore more and be a part of company that let's me place in different sections of the IT Lifecycle.

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## Work Experience

### Software Engineer



2014-Present ( 7+ Years )

I have been working with SafeSquid Labs as an Engineer skilled in multiple domains from more than 7 Years. My work requires me to be flexible enough to handle the product deployment, product setup, configuration, testing. To Test and Troubelshoot and manage i use Application servers like Apache, DNS, Redmine (Project management server), Bash Scripting. I have worked on building SafeSquid Customizing ISO (Ubuntu, Cent OS).

#### ✧ Main Task:

- Research and Development. Went through full product cycle from implementation, testing, planning, and development.
- Providing support to the local and international clients and helping them to understand the product and use it.
- Hands on experience in troubleshooting the issues with the product in the client locations and online meetings.
- Experience in Integrating applications like Redmine, Nagios, Sawmill Log Analyzer.
- Good at Customizing ISO (Ubuntu, Cent OS). I have worked on Building the SafeSquid ISO (Both Ubuntu 14 & Ubuntu 18 Based) which is known as SAB ISO.
- Knowledge of Bash Scripting. I use my bash scripting to automate most of the client requirements and customs reports.
- Experience in Virtualization, Administration on Linux and Active Directory (2008/2012). Since i am not limited to linux, i also work with Windows Servers, Manage AD users, Integrate AD to linux Hosts
- Experienced in Linux Networking profiling tools like Wireshark.
- Experienced in HTTP traffic capturing tools like Curl, Fiddler.
- Interaction with customers regarding product POC, Configuration and Resolving issues.

#### ✧ Other Tasks:

- Planned, installed, configured, maintained and administrated of Linux (Red Hat 6.x, 7.x, Centos 6.x, 7.x and Ubuntu 12,14,18), VMware 5.x, 6.x and day-to-day system admin tasks.
- Configured, supported and troubleshoot e.g. #NFS #DHCP #DNS #FTP #SSH #Apache Web Server
- Managed the File System of all OS. Ensure no any file system ran out of space like inodes. Properly managed all the mount points.
- Took care of User Management including creating user, adding users to groups and managing user and groups access levels.
- Actively reviewed the system Log files of all system events and took proactive measures to ensure high availability of the infrastructure.
- Experienced in creating, extending, the physical volume, volume group, logical volume and SWAP dynamically on need basis.
- Configuring and troubleshooting NFS and NFS related issues and using Auto Mount service for the NFS shares to avoid boot related issues.
- Used bash scripting and Puppet/Ansible for automation of day-to-day Administrative tasks.
- Monitored performance and performed kernel tuning using vmstat, iostat, sar, top and sysctl commands.
- Conducted Root Cause Analysis (RCA) to remediate and implement future proofing measures, leading to a sharp reduction in recurrence of future incidents.
- Creating and pushing SSH keys to configure password-less SSH for security and automation purposes. Ensured secure access of users by configuring key-base authentication.
- Manage and monitor group policies and implementing appropriate permissions for files and folders and Managing Users and Groups.Created users, added users to group and assigned permissions to control their access. Limiting user account privileges by configuring SUDOERS.
- Performed scheduled system backups, monitored system logs, performance monitoring and capacity planning in anticipation of system resource usage and needs.
- Taking backup and restored operations using tar and gzip.
- Resolved Level 1 and Level 2 issues on Linux systems.
- Made sure 24x7 support, handling tickets on day-to-day basis that involves identifying and resolving systems related tasks in accordance with priorities setup in dealing with trouble tickets.

#### Job Skills:

Testing Linux Scripting Content-Filtering Troubleshooting DLP DNS Security Fuzzing Networking Virtualization Log-Analyzers ISO Development Tech Support

## Skills & Tools

Skills:

Testing

Troubleshooter

Networking

DNS Security

Apache Web Server

Bash Scripting

Linux

MySQL

RedHat

DNS

DHCP

Partition

Puppet

ESXI

CentOS

FTP

TCP/IP

LVM

ACL

NFS

TFTP

VMware

Tools:

Curl

OpenSSL

Wireshark

Tcpdump

Browser Developer Tools

Fiddler

NMap

Putty

Sawmill Log Analyzer

Nagios

## Linux Skills

Setup, Configure & Maintain:

Apache Web Server

Bind Name Server

User & Priviledge Management

Disk Management(LVM)

Application Deployment

Configuration Automation(Puppet)

System Monitoring

Backup & Restore

SSH>Passwordless

# Projects

## ✧ ISO Development in Serial Mode

SafeSquid Labs

ISO development in Serial Mode

- Mount the minimal iso, copy files and directories to the new directory for customization and unmount it.
- Made changes in the txt.cfg file to download the preseed file from our web server, also changed default image to our custom image.
- Customized the installation steps by defining them in preseed file (i.e; Language, Keyboard Layout, LVM partitions..) and display only few of them which are required(i.e; IP Address, Netmask, Gateway, DNS..).
- Added automated script in preseed file to download, install and configure DNS Cache nameserver, sysctl tunning parameters, monit service and SafeSquid before system bootup.

### Tools:

- mkisofs,
- Ubuntu Mini ISO
- Bash

## ✧ Sawmill Log Analyzer

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To monitor the secure corporate network (which is protected by safesquid), implemented Sawmill Log Analyzer which analyzes, monitors and alerts a wide range of systems. Sawmill provides extensive log processing and reporting features to get the best possible insight into your network data. Sawmill analyzes any device or software package producing a log file that includes web servers, firewalls, proxy servers, mail servers, network devices, syslog servers, databases etc.

- Downloaded the required sawmill package according to distribution (ubuntu12/ubuntu14/windows).
- Configured rsync to copy logs (from 17 different servers) which are to be processed, analyzed, monitored and reported to a centralized server.
- Implemented sawmill according to the client requirement to analyze the user data through proxy server and their firewalls on different client production servers.
- Configured schedulers accordingly so that log reports are generated according to the client requirements.
- Added different filters to get the reports.
  - Example: Top 10 users, top 10 websites visited etc.

### Tools:

- Bash
- Redmine

## ✧ Redmine Project Management Tool

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Redmine is an open source project management web application. A must have for any project. It allows to plan and track actions, collaborate and build corporate knowledge. Have installed and configured Redmine on a Linux server which helped backend development team to view and track the product code.

- Designed redmine application architecture for internal and corporate backend development purpose.
- Automated a script to install and configure the dependencies and redmine application with the Custom Redmine ISO.
- Included LDAP and SVNADMIN extensions for user and web repository management.
- Modified the UI and added various plugins as and when required.

### Tools:

- Bash
- Redmine

## ✧ MediaWiki

SafeSquid Labs

To maintain a web documentation of the product and its how to, mediawiki is used. It provides features like configuration of user accounts, setting viewing options, editing options, raising discussions on a topic etc. We can add the documentation and scenarios where there are situations in which the end clients can view and get the information needed to solve the things or to gain knowledge related to configuration.

- Downloaded the required packages according to distribution (ubuntu).
- Deployed extensions accordingly to configure the permissions on user basis and provide extra privileges to whoever required.
- Modified the extensions to meet our needs and also customized the themes.
- Documented the Product (SafeSquid) for the customers easyness.

### Tools:

- Mediawiki
- Apache Web Server
- MySQL