



MYSURVEILLANCE

Administration Manual

Version 1.1

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INTRODUCTION

MySurveillance is a security monitoring system application that collects and analyzes security

reports from all network devices and system applications such as firewalls, databases, web

and switches. MySurveillance client-server architecture servers helps

organizations/individuals to monitor all security alerts for devices or applications from a

central (MySurveillance server).

Each client that need to be monitored will be installed with a MySurveillance sensor which will

collect the security event logs and Intrusion Detection Message Exchange Format (IDMEF)

will translate the log to a common language using IDMEF before sending it to the

MySurveillance server for analysis. Report of all security events will be displayed at the

MySurveillance Console.

Complex and large organizations such as governmental agencies benefit from the flexibility

that MySurveillance offers them. In Addition to being compatible with all security systems in

the market, there are different configuration variations that are possible with MySurveillance

such as filtering system and sensor error detection system with status reporting.

OBJECTIVES

The resources and features available in the MySurveillance would allow the Public Sector

agencies to achieve the following objectives:

• To collect and analyze security event logs from various network and system devices.

To centrally monitor overall network and system security.

To identify critical security events rapidly and effectively.

. Competency Centre

Updated By: INDHRAN PARAMASIVAM, R&D ENGINEER



FEATURES

Features available in MySurveillance are:

- Able to support log files generated by various devices and applications available in the market.
- Real-time analysis of events received from MySurveillance Sensor.
- Built-in event log filter enables only critical and error messages to be displayed at central server.
- Data can be collected and corellated from sensors deployed on supported devices.

ARCHITECTURE

There are four major components in MySurveillance which are MySurveillance Sensors/Agents, MySurveillance Server, MySuveillance Data Store and MySurveillance Console.

- Sensors/Agents at the client-server (prelude-lml) are responsible for intrusion detection, and report events in a centralized fashion using a Transport Layer Security (TLS)
- All the report of security events will be collect and analyze at *MySurveillance Server* (prelude-manager).
- MySurveillance uses Intrusion Detection Message Exchange Format (IDMEF) as the common language for reporting events. The server can then process these events and deliver them to a *MySurveillance Data Store*.
- The *MySurveillance Console* can then be used to view these events log reading the information from the MySurveillance Data Store.





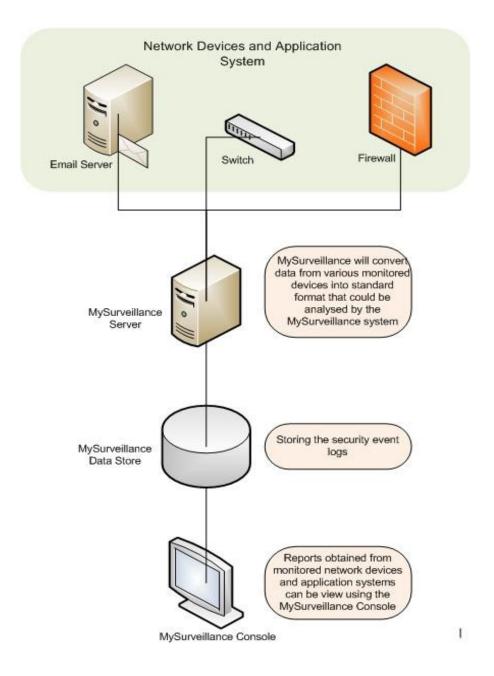


Figure 4.1 : Architecture Diagram





MySurveillance is compatible with various network and system devices in the market regardless whether it is proprietary or open source. Below are some examples of MySurveillance logs compatibility with various network and system devices.

Firewall, Routers &	BIG-IP®, Check Point®, CISCO® ASA, CISCO® IOS,
VPN	CISCO® Router, CISCO® VPN, D-Link®, Ipchains, IpFw,
	Juniper Networks® NetScreen, Linksys® WAP11,
	ModSecurity®, Netfilter, SonicGuard SonicWall®
Switchs	CISCO® CSS
IDS	CISCO® IPS, Portsentry, Shadow, Tripwire®
Monitoring	APC®-EMU, ArpWatch, Dell® OpenManage, Nagios®
AntiVirus/AntiSpam	ClamAV®, P3Scan, SpamAssassin
Database	Microsoft® SQL Server, Oracle®
SMTP/POP Server	Exim, Postfix®, Qpopper®, Sendmail®, Vpopmail
FTP Server	ProFTPD, WU-FTPD
Web Server	Apache®
Vulnerability Scanner	Nessus®
Honeypots	Honeyd, Honeytrap, Kojoney
Authentication	OpenSSH
Applications	Asterisk, Cacti, Libsafe, Shadow Utils, Squid, Sudo
OS (security tools)	GrSecurity, PaX, SELinux
Miscellaneous	Unix® specific logs, Webmin, Windows® Server, Arbor,
	Linux® bonding, Microsoft® Cluster Service, NetApp®
	ONTAP®, NTSyslog, OpenHostAPD, Rishi, Suhosin

Table 4.1: Logs Compatibility





ADMINISTRATION

Main Page

All of security events from network devices and application systems that MySurveillance monitors will be displayed at the MySurveillance Console, as shown in Figure 1.

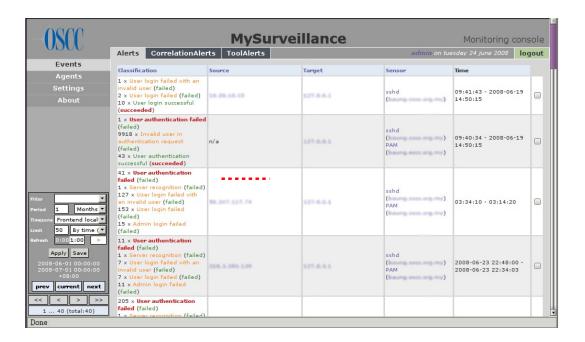


Figure 1: MySurveillance Main Page





There are 4 menu selections can be chosen when you login into MySurveillance Console which are *Events*, *Agents*, *Settings* and *About*. Some features that are available in the Display Setting panel are adjustable period for displaying reports, limitation to how many reports to be displayed in each page and refresh interval.

There are 3 pages to be display under Events which are *Alert*, *CorrelationAlert* and *ToolsAlert*. A double-click at the respective security event at the Classification column will open a different screen with detail information for the security event as shown in Figure 2.



Figure 2 : Security Event Details





Agents page

Network devices or application systems that have been registered under MySurveillance system will be displayed at the Agent page. Sensors or agents will be grouped depending on the devices location. There are 2 colour codes used to refer to the availability of the sensors or agents at a particular time. Green refers to the availability of the sensors and red refers to the missing sensors.

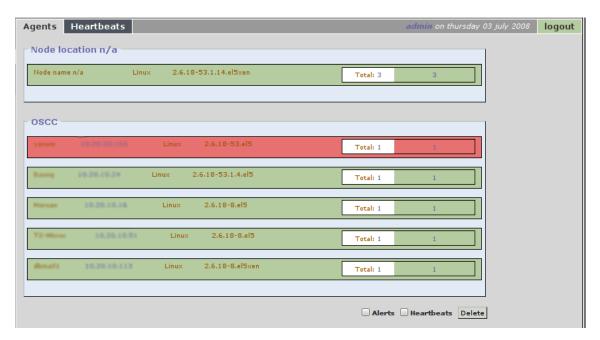


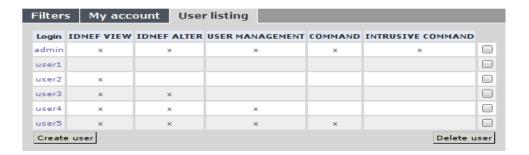
Figure 3: Agents page

Change password

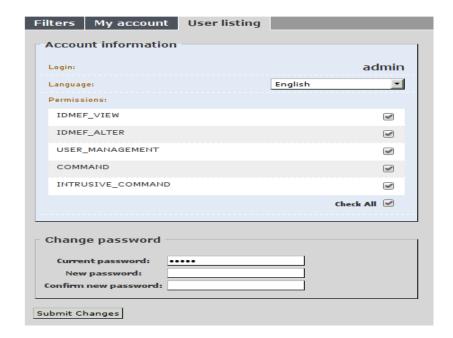
- 1. To change password, first click Settings on the left panel.
- 2. Next, click User listing as shown below. It will show a list of user accounts with its permissions.







- 3. Click on the required username in the Login column.
- 4. It will open up Account information for the user you had choose.



- 5. In the Change password section, fill in your Current password, New password and Confirm new password.
- 6. Click on Submit Changes to update you new password.





Add User

- 1. To add user, first click Settings on the left panel.
- 2. Next, click User listing as shown below. Click on button Create user.



3. Fill up the details for new user in the space provided. Specified permissions for the user at the Permissions box.



4. Click Submit Changes to update new user.



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MAINTENANCE

The following should be checked on a regular basis:

Network connections

The administrator should verify the server is reachable from the public network to avoid

service interruption. Network monitoring is beyond the scope of these manual.

Log files

With the log files, it is possible to identify and monitor hardware and software problems on the

servers. The log files should be checked at least once a week. All log files in /var/log/

directory.

Services

Used to start, stop or cancel a service on a local or remote computer. It is also a tool to set up

recovery actions to take place if a service should fail. Should be checked in case of service

failure.

e.g:

#/etc/init.d/[service_name] start/stop/status

Package update/patch

Check that the latest package update/patches has been installed on the servers. It should be

checked and done at least once a month.

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Update Time: Monday, January 18, 2010

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Disk Space

to verify that there is always enough space on the most mission critical servers. It should be done at least once a week. Use *df -lh* command.

Password change

Password should be changed periodically, at least every three months.

Service update

Check for services update for the main components in MySurveillance such as libprelude, libpreludedb, prewikka and prelude_lml.

