



GridPP

UK Computing for Particle Physics

Security: Best Practice and Monitoring

Week 09 Week 10 Week 11

CPUS ■ Running Processes

History last month

Romain Wartel



- Security Best Practice
 - Why it is important
 - How information can be spread
 - Future
- Security monitoring
 - Patching status monitoring with Yumit
 - Monitoring open ports with Scanit
 - Logging system events with syslog-ng



GridPP

UK Computing for Particle Physics

Security Best Practice

Week 09 Week 10 Week 11

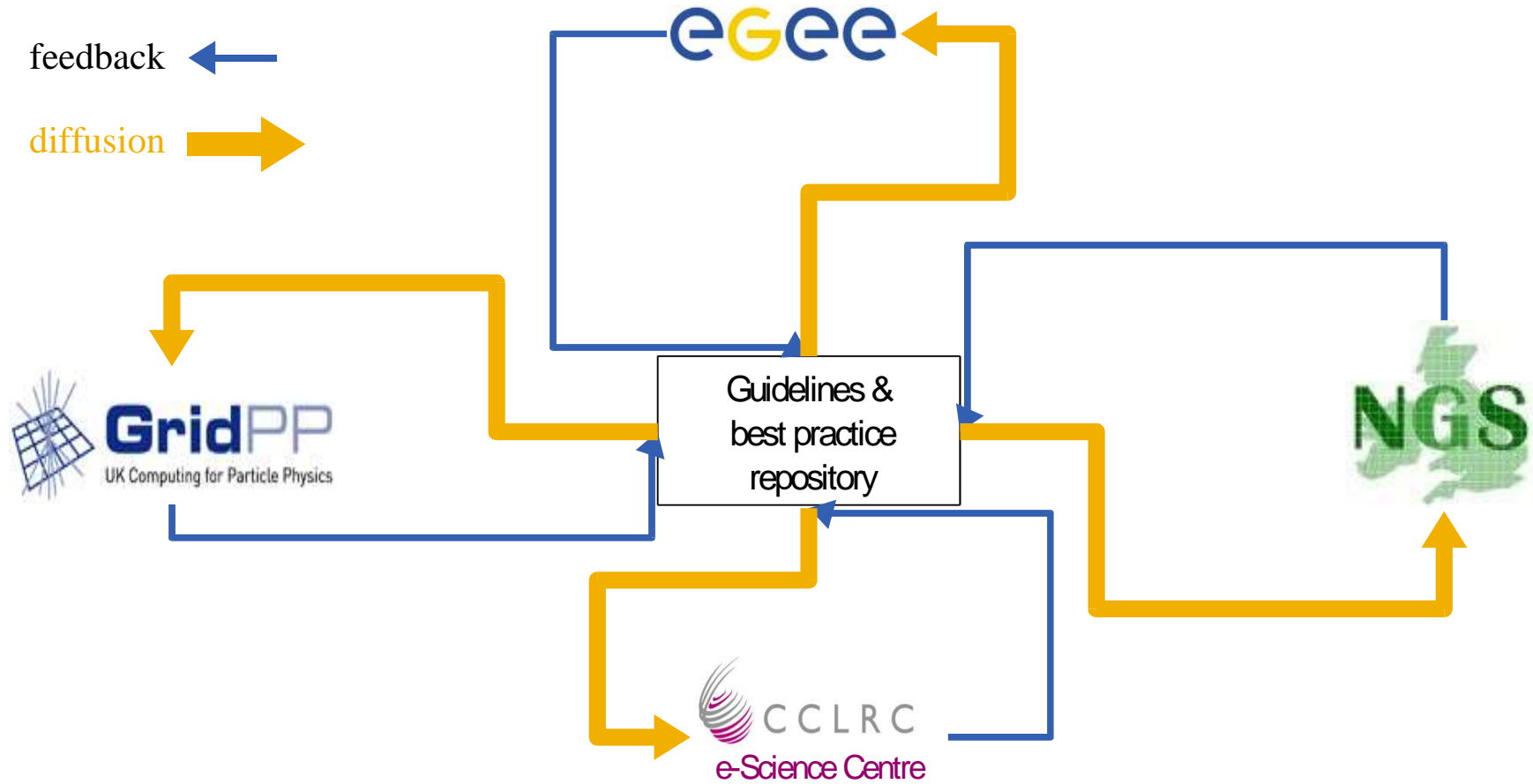
CPUS ■ Running Processes

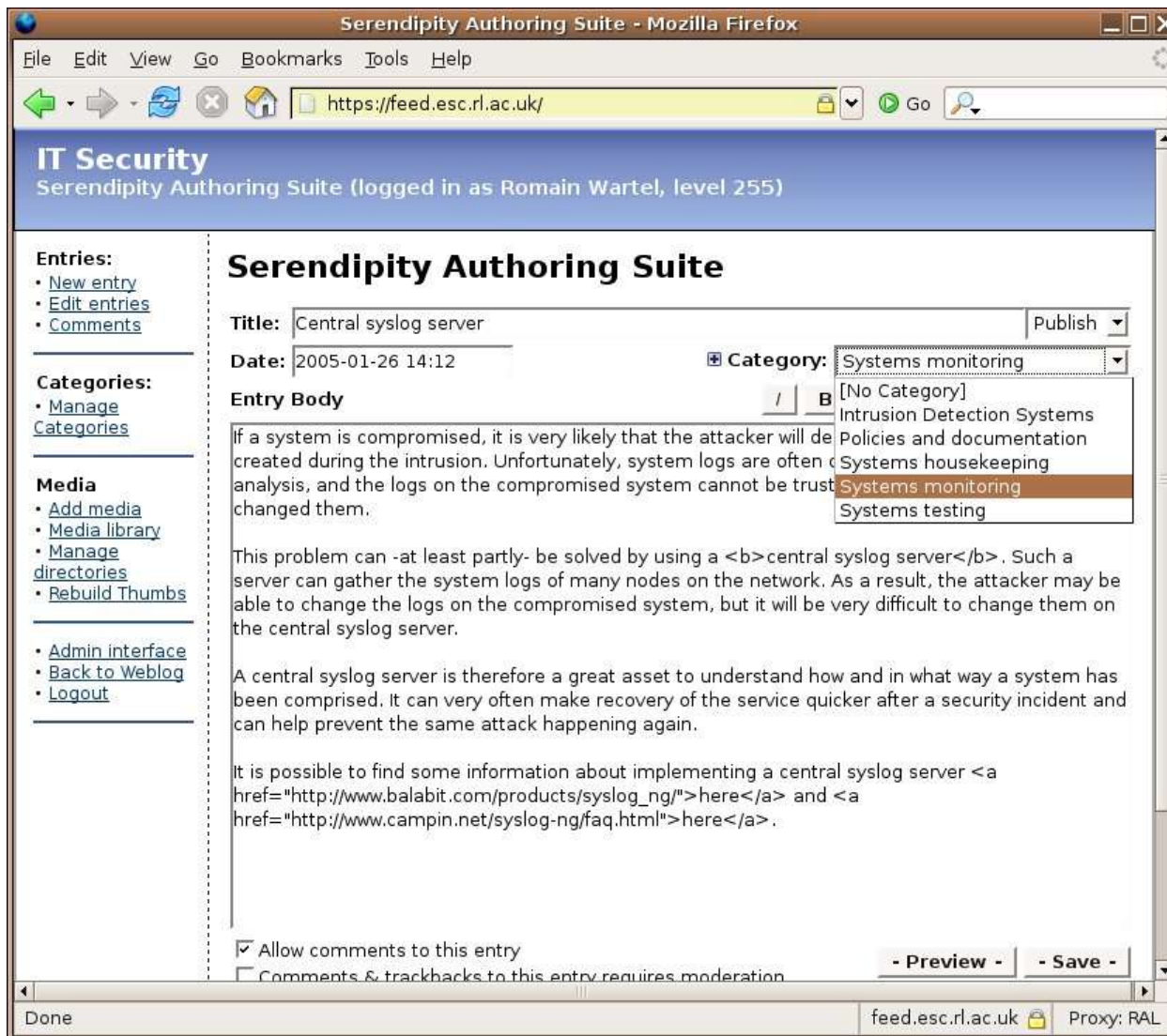
History last month

- Most sites have similar security issues
- Heterogeneous groups of systems administrators
- Experience from security incidents is extremely useful
- Good ideas should be spread amongst the community
 - Guidelines & best practice should be advertised

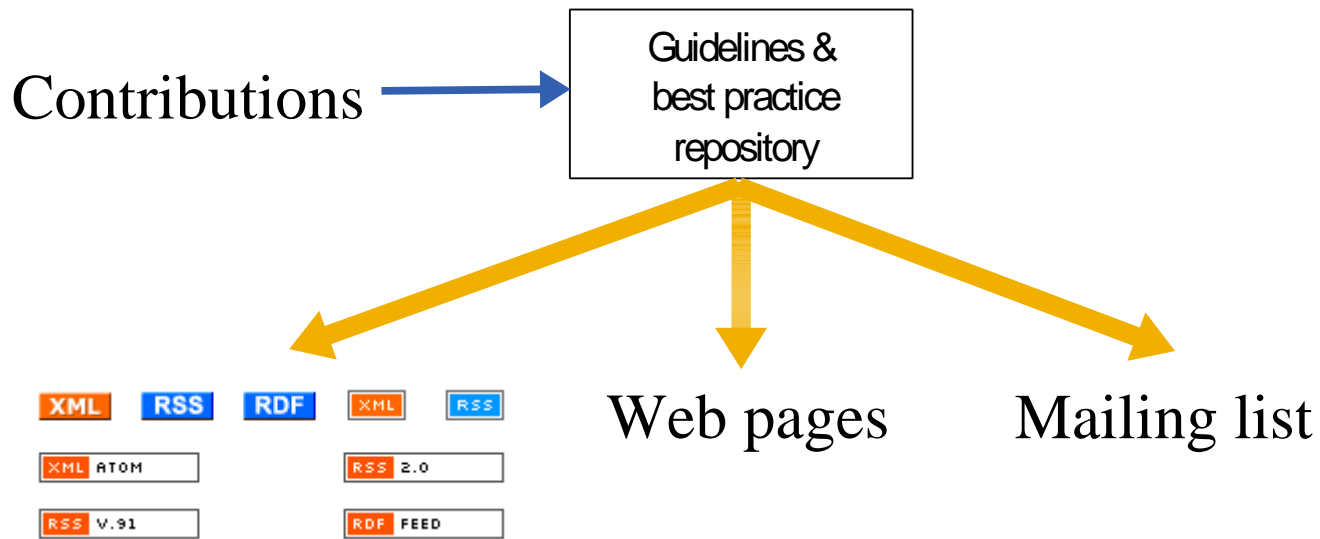
BUT

- Information must be kept up-to-date
- A single source of information is not enough
- Maintaining coherent information amongst many sites is difficult

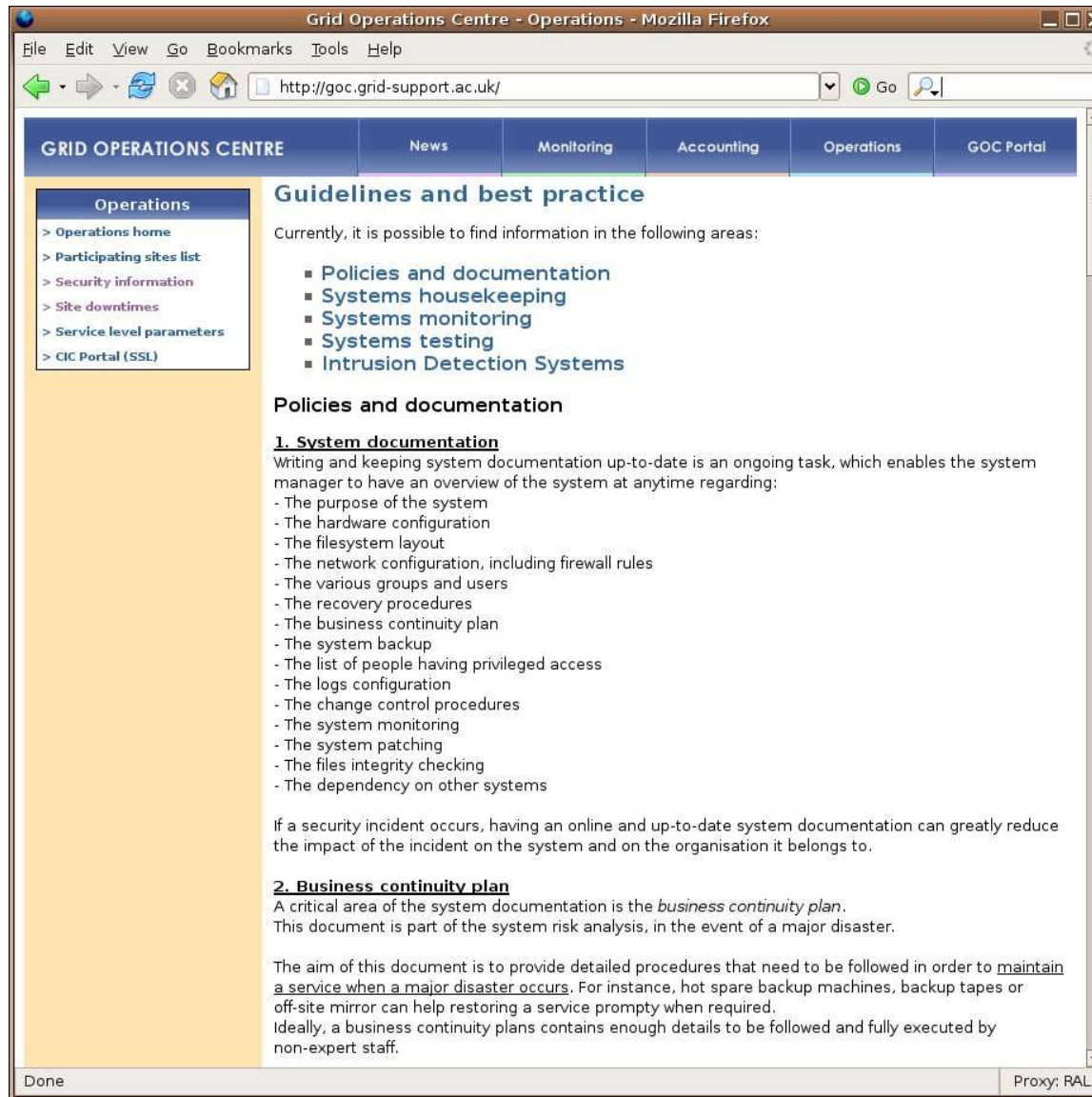




- Web interface, currently using Serendipity
- Using Gridsite authentication (x509 certificates)
- Contributions centralized and published by “trusted” people



- **The information is published via:**
 - Web pages
 - email
 - RSS feed



Grid Operations Centre - Operations - Mozilla Firefox

File Edit View Go Bookmarks Tools Help

http://goc.grid-support.ac.uk/

GRID OPERATIONS CENTRE News Monitoring Accounting Operations GOC Portal

Operations

- > Operations home
- > Participating sites list
- > Security information
- > Site downtimes
- > Service level parameters
- > CIC Portal (SSL)

Guidelines and best practice

Currently, it is possible to find information in the following areas:

- Policies and documentation
- Systems housekeeping
- Systems monitoring
- Systems testing
- Intrusion Detection Systems

Policies and documentation

1. System documentation

Writing and keeping system documentation up-to-date is an ongoing task, which enables the system manager to have an overview of the system at anytime regarding:

- The purpose of the system
- The hardware configuration
- The filesystem layout
- The network configuration, including firewall rules
- The various groups and users
- The recovery procedures
- The business continuity plan
- The system backup
- The list of people having privileged access
- The logs configuration
- The change control procedures
- The system monitoring
- The system patching
- The files integrity checking
- The dependency on other systems

If a security incident occurs, having an online and up-to-date system documentation can greatly reduce the impact of the incident on the system and on the organisation it belongs to.

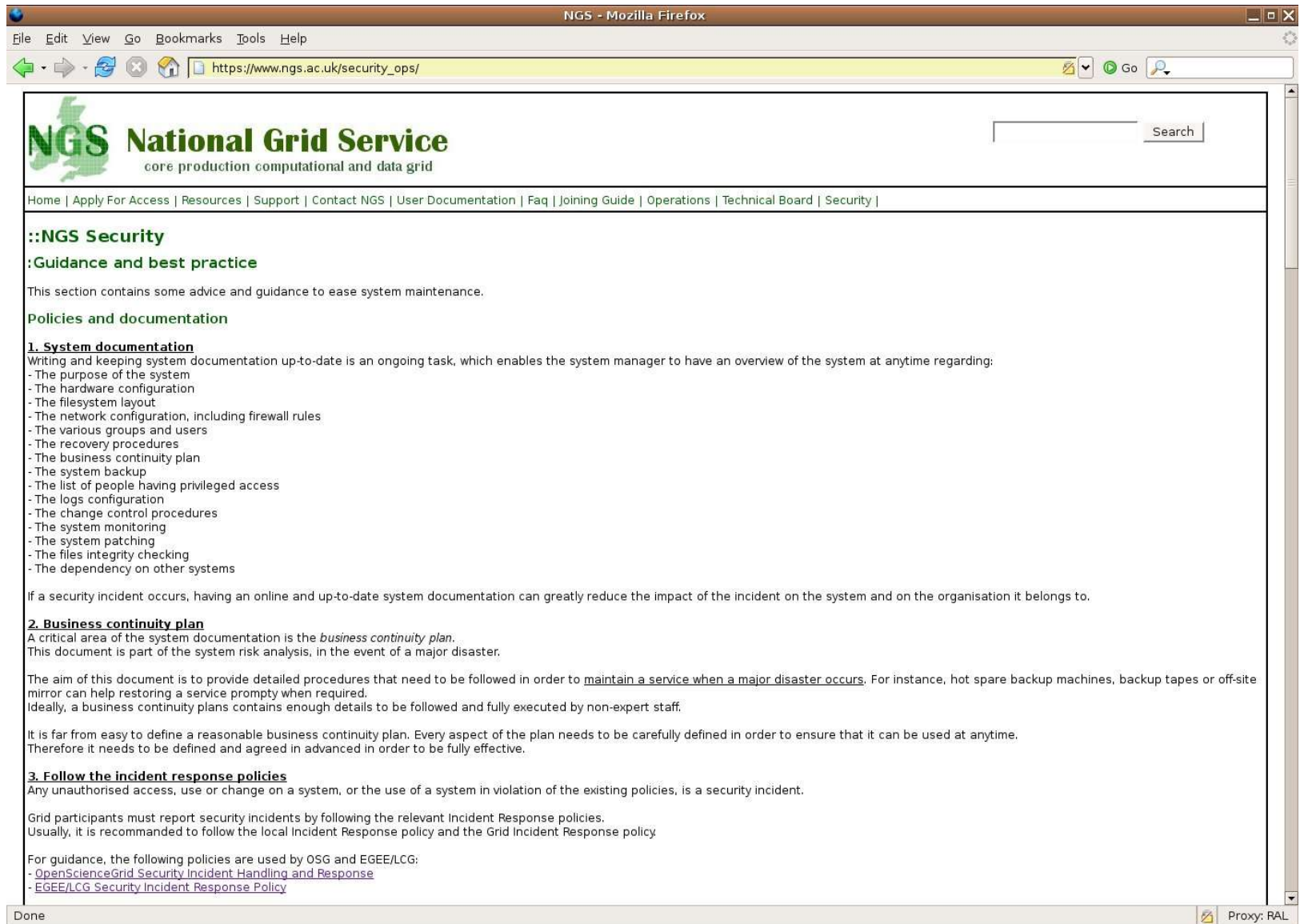
2. Business continuity plan

A critical area of the system documentation is the *business continuity plan*. This document is part of the system risk analysis, in the event of a major disaster.

The aim of this document is to provide detailed procedures that need to be followed in order to maintain a service when a major disaster occurs. For instance, hot spare backup machines, backup tapes or off-site mirror can help restoring a service promptly when required.

Ideally, a business continuity plans contains enough details to be followed and fully executed by non-expert staff.

Done Proxy: RAL



NGS - Mozilla Firefox

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https://www.ngs.ac.uk/security_ops/

NGS National Grid Service
core production computational and data grid

Home | Apply For Access | Resources | Support | Contact NGS | User Documentation | Faq | Joining Guide | Operations | Technical Board | Security |

::NGS Security
:Guidance and best practice

This section contains some advice and guidance to ease system maintenance.

Policies and documentation

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It is far from easy to define a reasonable business continuity plan. Every aspect of the plan needs to be carefully defined in order to ensure that it can be used at anytime. Therefore it needs to be defined and agreed in advanced in order to be fully effective.

3. Follow the incident response policies
Any unauthorised access, use or change on a system, or the use of a system in violation of the existing policies, is a security incident.

Grid participants must report security incidents by following the relevant Incident Response policies. Usually, it is recommended to follow the local Incident Response policy and the Grid Incident Response policy.

For guidance, the following policies are used by OSG and EGEE/LCG:

- [OpenScienceGrid Security Incident Handling and Response](#)
- [EGEE/LCG Security Incident Response Policy](#)

Done Proxy: RAL

GridPP - Mozilla Firefox

File Edit View Go Bookmarks Tools Help

http://www.gridpp.ac.uk/deployment/security/guidelines/index.html

Welcome page : Current status : How to use the Grid : Website Help

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UK Computing for Particle Physics

Search

Deployment

- Overview
- Planning
- News
- Meetings
- Status
- Work in Progress
- Links
- Contact us
- UK Testzone

User Area

- Certificates
- User interface
- Run a job
- Join a VO
- FAQs
- Getting support

Admin Area

- Installations
- Joining LCG2
- Site tests
- Maintaining a site
- Monitoring

Security

- Security Policies
- Best Practice
- Security incidents
- Security challenges

Guidance and best practice

This section contains some advices and guidance to ease system maintenance. It is provided without any warranty and GridPP shall not be liable for any damage the following may cause.

Currently, it is possible to find information in the following areas:

- [Policies and documentation](#)
- [Systems housekeeping](#)
- [Systems monitoring](#)
- [Systems testing](#)
- [Intrusion Detection Systems](#)

Policies and documentation

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Done

Proxy: RAL

Program Feeds Items View Search Help

General (45)
News (689)
Linux (347)
IT Security for Grid Projects

Date	Headline
24/02/05 14:23:09	Using SSH keys
26/01/05 14:12:12	Central syslog server
21/01/05 18:08:38	Configuring a system-level firewall

Feed: [IT Security for Grid Projects](#)
Item: [Central syslog server](#)

If a system is compromised, it is very likely that the attacker will delete the log files that have been created during the intrusion. Unfortunately, system logs are often critical during the post-incident analysis, and the logs on the compromised system cannot be trusted as the attacker could have changed them.

This problem can -at least partly- be solved by using a **central syslog server**. Such a server can gather the system logs of many nodes on the network. As a result, the attacker may be able to change the logs on the compromised system, but it will be very difficult to change them on the central syslog server.

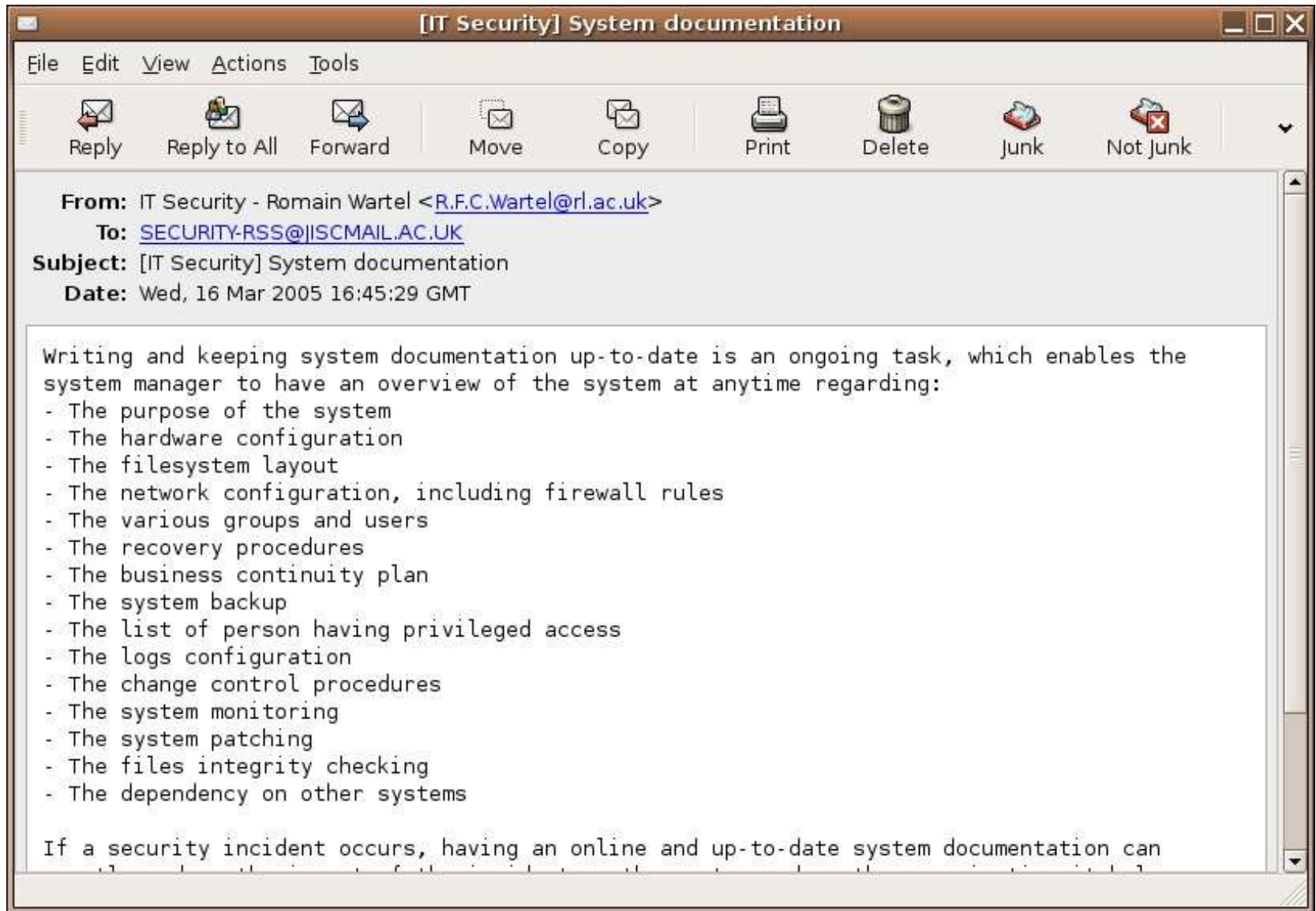
A central syslog server is therefore a great asset to understand how and in what way a system has been comprised. It can very often make recovery of the service quicker after a security incident and can help prevent the same attack happening again.

It is possible to find some information about implementing a central syslog server [here](#) and [here](#).

IT Security: 19 new items
[System documentation](#)
[Business continuity plan](#)
[Follow the incident response policies](#)

SharpReader 16:44

P Professional (Service Pack 1)



- XML based, recognized standard
- Widespread technology: many clients and APIs
- Enables injecting security information within existing Websites
- Enables filtering of the information
- Any webmaster can use the feed
- Coherent, up-to-date information is available
- Design up to Webmasters, but some layout can be pushed

However:

- RSS requires a server-side mechanism
- Webmasters need to trust the authors or perform manual updates

We need to:

- Provide better, more targeted content
- Provide a second layer of information, via external Web pages
- Receive contributions from the community
- Deploy the mechanism amongst more sites
- Improve the way the information is sorted



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Security Monitoring

Week 09 Week 10 Week 11

CPUS ■ Running Processes

History last month



- Most attacks are using known software vulnerabilities
- Enables monitoring of patching status for a large farm
- Originally developed by Steve Traylen
- Deployment status
 - RAL eScience has 350+ systems registered
 - RAL Tier1a has 600+ systems registered
 - Deployment started at CERN and within UK NGS
- Packages and documentation available from:
<http://www-staff.esc.rl.ac.uk/Romain/yumit/>



Yumit Results for eScience - Mozilla Firefox

File Edit View Go Bookmarks Tools Help

https://yumit.esc.rl.ac.uk/

(0) goc03.grid-support.ac.uk - 2.4.21-27.0.4.EL - 26 April 2005 09:37

Administrator: Romain Wartel

Debian 3.0

(0) belfort.esc.rl.ac.uk - 2.4.18-bf2.4 - 25 April 2005 23:43

Red Hat Enterprise Linux AS release 3 (Taroon Update 4)

(0) offemont.esc.rl.ac.uk - 2.4.21-27.0.4.EL - 26 April 2005 09:37

(0) rennes.esc.rl.ac.uk - 2.4.21-27.0.4.EL - 26 April 2005 09:37

(0) rhn.rl.ac.uk - 2.4.21-27.0.4.EL - 26 April 2005 09:37

Red Hat Enterprise Linux ES release 3 (Taroon Update 4)

(0) fs1.esc.rl.ac.uk - 2.4.21-27.0.4.ELsmp - 26 April 2005 09:41

(0) webs.esc.rl.ac.uk - 2.4.21-27.0.4.ELsmp - 26 April 2005 09:36

Red Hat Enterprise Linux WS release 3 (Taroon Update 4)

(0) besac.esc.rl.ac.uk - 2.4.21-27.0.4.EL - 26 April 2005 09:37

(0) fougeres.esc.rl.ac.uk - 2.4.21-27.0.4.EL - 26 April 2005 09:37

(0) giromagny.esc.rl.ac.uk - 2.4.21-27.0.4.EL - 26 April 2005 09:37

(0) gits.ngs.rl.ac.uk - 2.4.21-27.0.4.EL - 26 April 2005 09:38

(0) grid2.esc.rl.ac.uk - 2.4.21-27.0.4.EL - 26 April 2005 09:37

(0) inca-dev.esc.rl.ac.uk - 2.4.21-27.0.4.EL - 26 April 2005 09:46

(0) magellan.esc.rl.ac.uk - 2.4.21-27.0.4.EL - 26 April 2005 09:37

(0) portal-dev.esc.rl.ac.uk - 2.4.21-27.0.4.EL - 26 April 2005 04:25

(0) rss-test.esc.rl.ac.uk - 2.4.21-27.0.4.EL - 26 April 2005 09:37

Red Hat Enterprise Linux WS release 4 (Nahant)

(0) www-rhn.rl.ac.uk - 2.6.9-5.0.5.EL - 26 April 2005 09:37

Red Hat Linux Advanced Server release 2.1AS (Pensacola)

(0) domino.esc.rl.ac.uk - 2.4.9-e.38summit - 23 February 2005 04:16

Red Hat Linux release 9 (Shrike)

(0) goc-dev.esc.rl.ac.uk - 2.4.20-42.9.legacy - 26 April 2005 04:30

Scientific Linux SL Release 3.0.4 (SL)

(0) wingrid.esc.rl.ac.uk - 2.4.21-27.0.2.EL - 26 April 2005 05:53

Done yumit.esc.rl.ac.uk Proxy: RAL



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Yumit 3/6

Yumit Results for eScience - Mozilla Firefox

File Edit View Go Bookmarks Tools Help

https://yumit.esc.rl.ac.uk/index.php?o=host

(5) [redacted].rl.ac.uk - 2.4.21-27.0.2.ELsmp - 26 April 2005 09:53 [lock icon] Patching status critical

(5) [redacted].esc.rl.ac.uk - 2.4.21-27.0.2.ELsmp - 26 April 2005 06:13 [lock icon] Patching status critical

(40) [redacted].esc.rl.ac.uk - 2.4.21-27.0.2.ELsmp - 26 April 2005 04:15 [lock icon] Patching status critical

(7) [redacted].esc.rl.ac.uk - 2.4.21-27.0.2.ELsmp - 26 April 2005 05:34 [lock icon] Patching status critical

(0) [redacted].esc.rl.ac.uk - 2.4.21-27.0.4.ELsmp - 26 April 2005 15:02 [lock icon]

(7) [redacted].rl.ac.uk - 2.4.21-27.0.2.ELsmp - 26 April 2005 11:03 [lock icon] Patching status critical

(0) [redacted].rl.ac.uk - 2.4.21-27.0.2.ELsmp - 19 April 2005 14:21 [lock icon]

(0) [redacted].esc.rl.ac.uk - 2.4.21-27.0.4.EL - 26 April 2005 09:37 [lock icon]

(0) [redacted].esc.rl.ac.uk - 2.4.21-27.0.4.EL - 26 April 2005 09:37 [lock icon]

(0) [redacted].rl.ac.uk - 2.4.21-27.0.4.EL - 26 April 2005 09:37 [lock icon]

(1) [redacted].rl.ac.uk - 2.4.21-27.0.2.ELsmp - 26 April 2005 04:28 [lock icon] Patching status critical

(1) [redacted].rl.ac.uk - 2.4.21-27.0.2.ELsmp - 26 April 2005 04:25 [lock icon] Patching status critical

(2) [redacted].rl.ac.uk - 2.4.21-27.0.2.ELsmp - 26 April 2005 04:36 [lock icon] Patching status critical

(1) [redacted].rl.ac.uk - 2.4.21-27.0.2.ELsmp - 26 April 2005 04:25 [lock icon] Patching status critical

(1) [redacted].rl.ac.uk - 2.4.21-27.0.2.ELsmp - 26 April 2005 02:56 [lock icon] Patching status critical

(1) [redacted].rl.ac.uk - 2.4.21-27.0.2.ELsmp - 26 April 2005 04:31 [lock icon] Patching status critical

(8) [redacted].ngs.rl.ac.uk - 2.4.21-27.0.2.ELsmp - 26 April 2005 04:16 [lock icon] Patching status critical

(6) [redacted].esc.rl.ac.uk - 2.4.21-27.0.2.ELsmp - 26 April 2005 04:40 [lock icon] Patching status critical

(7) [redacted].esc.rl.ac.uk - 2.4.21-27.0.2.ELsmp - 26 April 2005 04:52 [lock icon] Patching status critical

Red Hat Enterprise Linux ES release 3 (Taroon Update 4)

Done yumit.esc.rl.ac.uk [lock icon] Proxy: RAL



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Yumit 4/6

Yumit Results for eScience - Mozilla Firefox

File Edit View Go Bookmarks Tools Help

https://yumit.esc.rl.ac.uk/hosts.php?h=vindaloo.esc.rl.ac.uk

Fedora Core release 3 (Heidelberg)

Red Hat Enterprise Linux AS release 3 (Taroon Update 4)

vindaloo.esc.rl.ac.uk (21 February 2005)
initscripts - 7.31.18.EL-1
kernel - 2.4.21-27.0.2.ELPkg -- Please read this advisory:
yumit-client - 2.0.1-0

Red Hat Enterprise Linux ES release 3 (Taroon Update 4)

Red Hat Enterprise Linux WS release 2.1 (Tampa)

Done yumit.esc.rl.ac.uk Proxy: RAL



- The Yumit server needs more documentation
- Deployment mechanisms are needed:
 - To get the latest version
 - To use the “red” security flag
- Perhaps a Grid version through EGEE OSCT?



- Scanit detects changes in the list of open ports
- Useful to detect a system compromise
- Deployment status:
 - Used with RAL-esc
 - Deployment in progress within RAL Tier1a



Scanit Results for eScience - Mozilla Firefox

File Edit View Go Bookmarks Tools Help

https://ammo.esc.rl.ac.uk/scanit/

.rl.ac.uk - 25 April 2005 21:39

Port	State	Service	Version	Firewall
1521/tcp	open	oracle	Not Available	?
5000/tcp	open	UPnP	Not Available	?
5001/tcp	open	complex-link	Not Available	?
5002/tcp	open	rfe	Not Available	?

.rl.ac.uk - 25 April 2005 21:39

Port	State	Service	Version	Firewall
1521/tcp	open	oracle	Not Available	?
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5001/tcp	open	complex-link	Not Available	?
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.rl.ac.uk - 25 April 2005 21:39

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.rl.ac.uk - 25 April 2005 21:39

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5000/tcp	open	UPnP	Not Available	?
5001/tcp	open	complex-link	Not Available	?
5002/tcp	open	rfe	Not Available	?

Done ammo.esc.rl.ac.uk Proxy: RAL



Scanit Results for eScience - Mozilla Firefox

File Edit View Go Bookmarks Tools Help

https://ammo.esc.rl.ac.uk/scanit/

Port	State	Service	Version	Firewall
22/tcp	open	ssh	OpenSSH 3.6.1p2 (protocol 1.99)	?
111/tcp	open	rpcbind	(rpcbind V2) 2 (rpc #100000)	?
2119/tcp	open	unknown	Not Available	?
2135/tcp	open	ldap	(Anonymous bind OK)	?
2811/tcp	open	unknown	Not Available	?
32768/tcp	open	status	(status V1) 1 (rpc #100024)	?
65031/tcp	open	unknown	Not Available	?
65076/tcp	open	unknown	Not Available	?
65199/tcp	open	unknown	Not Available	?
65246/tcp	open	unknown	Not Available	?

ammo.esc.rl.ac.uk - 25 April 2005 21:36

Port	State	Service	Version	Firewall
22/tcp	open	ssh	OpenSSH 3.5p1 (protocol 2.0)	OPEN
3306/tcp	open	mysql	MySQL (unauthorized)	?
8009/tcp	open	ajp13	Not Available	?
8080/tcp	open	http	Apache Tomcat/Coyote JSP engine 1.1	OPEN

Done ammo.esc.rl.ac.uk Proxy: RAL



Scanit Results for eScience - Mozilla Firefox

File Edit View Go Bookmarks Tools Help

https://ammo.esc.rl.ac.uk/scanit/

32769/tcp	open	unknown	Not Available	?
-----------	------	---------	---------------	---

fs1.esc.rl.ac.uk - 25 April 2005 21:35

Port	State	Service	Version	Firewall
22/tcp	open	ssh	Not Available	?
111/tcp	open	rpcbind	(rpcbind V2) 2 (rpc #100000)	?
139/tcp	open	netbios-ssn	Not Available	?
445/tcp	open	microsoft-ds	Not Available	?
8000/tcp	open	unknown	Not Available	?
8000/tcp	open	unknown	Not Available	?
2049/tcp	open	nfs	Not Available	?
4000/tcp	open	remoteanything	Not Available	?
8649/tcp	open	unknown	Not Available	?
32771/tcp	open	sometimes-rpc5	Not Available	?

ganglia.esc.rl.ac.uk - 25 April 2005 21:35

Port	State	Service	Version	Firewall
22/tcp	open	ssh	OpenSSH 3.6.1p2 (protocol 1.99)	OPEN
80/tcp	open	http	Apache httpd 2.0.46 ((Red Hat))	?

Done

ammo.esc.rl.ac.uk Proxy: RAL



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Scanit 5/6

[WARNING] New open port discovered

File Edit View Actions Tools

Reply Reply to All Forward Move Copy Print Delete Junk Not Junk Previous Next

From: security@helpdesk.esc.rl.ac.uk
To: r.f.c.wartel@rl.ac.uk
Cc: n.m.hill@rl.ac.uk
Subject: [WARNING] New open port discovered
Date: Tue, 26 Apr 2005 06:30:00 +0100 (08:30 EEST)

Hello,

This is an automatic message from the eScience Scanit server. The network has been scan on Apr 26 2005. It seems that a new open port has popped up on the following machine(s):

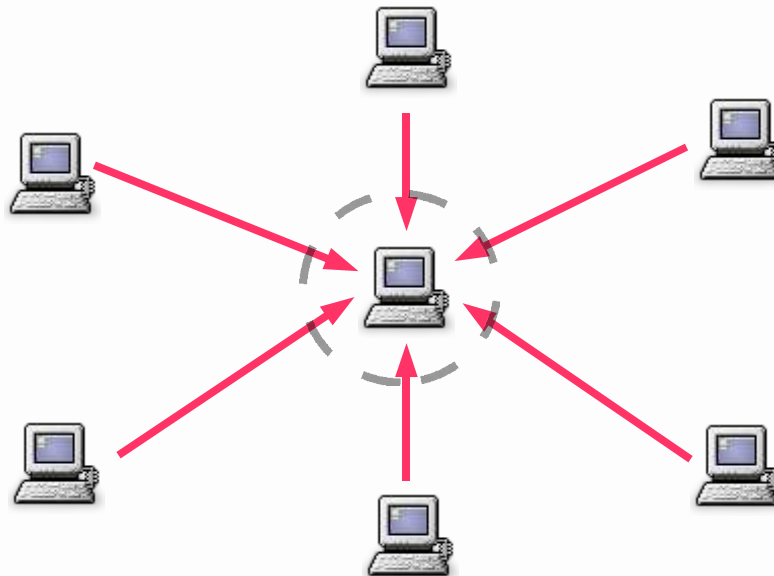
fs1.esc.rl.ac.uk has now port tcp/790 (unknown) opened. Contact Romain if this looks suspicious.
fs1.esc.rl.ac.uk has now port tcp/806 (unknown) opened. Contact Romain if this looks suspicious.



- Used in production at RAL
- Packaging in progress
- A few display bugs need to be fixed
- Documentation and Web page in progress
- Volunteers are more than welcomed



- Extremely useful, especially during a security incident:
 - Detailed information are needed about system events
 - Information should be as reliable as possible
- The attacker cannot change the logs on the server





- Network services on the server should be limited as much as possible!

- Installation of syslog-ng:

http://www.balabit.com/products/syslog_ng/

- Good FAQ available from:

<http://www.campin.net/syslog-ng/faq.html>



- Main config file is:
`/etc/syslog-ng/syslog-ng.conf`
- Syslog-ng uses the following template:

source → filter → destination
log

- Defining several “log” objects can be useful



- All the logs are sent to disc:

```
log {  
    source(src);  
    destination(std);  
};  
  
destination std {  
    file("/var/log/HOSTS/$HOST/$YEAR/$MONTH/$DAY/$FACILITY"  
        owner(root) group(root) perm(0600) dir_perm(0700) create_dirs(yes)  
    );  
};
```



- Several solutions exists

```
log {
    source(src);
    filter(f_ssh_login_attempt);
    destination(d_mysql);
};

filter f_ssh_login_attempt {
    program("sshd.*")
    and match("(Failed|Accepted|authenticated|failed>Password|FAILED|ACCEPTED)")
    ;
};

pipe("/tmp/mysql.pipe"
template("INSERT INTO logs (host, facility, priority, level, tag, date,
time, program, msg) VALUES ( '$HOST', '$FACILITY', '$PRIORITY', '$LEVEL',
'$TAG','$YEAR-$MONTH-$DAY', '$HOUR:$MIN:$SEC', '$PROGRAM', '$MSG' );\n")
template-escape(yes));

};
```




```
log {  
source(src);  
filter(f_network_denied);  
destination(d_mysql);  
destination(contact_sec);  
};  
  
filter f_network_denied {  
    program("kernel.*")  
    and match("DENIED") ;  
};  
  
destination contact_sec { file("/var/log/contact_sec"  
    owner(root) group(root) perm(0600) dir_perm(0700) create_dirs(yes)); };
```

- A cron job then simply checks the log file every 10 min
- If the file exists, its content is sent to the security team



- Alerts can be generated for a temporary event

```
log {  
    source(src);  
    filter(f_suspect);  
    destination(mail-alert);  
};  
filter f_suspect {  
    match("rw45");  
};  
destination mail-alert { program("/usr/local/bin/syslog-mail-perl"); }
```

suspicious pattern

Then the script simply send the entry to the security team



- All logs are archived and stored securely
- Ability to search for user logins, IP addresses, etc.
- Suspicious patterns are escalated
- As a result:
 - Intrusion detection is improved
 - Incident response is more efficient



- The DB is available from the Web to the security team:

eScience Syslog Server - 2.5.1 - Mozilla Firefox

File Edit View Go Bookmarks Tools Help

Network Syslog Server -
Wednesday :: April 27, 2005
Your IP: 130.246.8.223

eSCIENCE SYSLOG MONITOR

* represents all entries in the table

Host: *
DATE: * Between DATE: *
TIME: * Between TIME: *
PRIORITY: *

SEARCH MESSAGE:
Do a reverse search:

RECORDS PER PAGE: 1000
SEARCH ORDER: DESC

Search Reset

Done .ac.uk Proxy: RAL



Searching for entries

- Searching for any login for “rw45” amongst the farm

eScience Syslog Server - 2.5.1 - Mozilla Firefox

File Edit View Go Bookmarks Tools Help

Network Syslog Server -
Wednesday :: April 27, 2005
Your IP: 130.246.8.223

NETWORK SYSLOG MONITOR RESULTS

[BACK TO SEARCH](#) SEVERITY LEGENED
Number of Syslog Entries: 36 INFO DEBUG NOTICE WARNING ERR CRIT ALERT

SEQ	HOST	PRIORITY	DATE	TIME	MESSAGE
187172	webs.esc.rl.ac.uk	info	2005-04-13	17:59:46	sshd[17262]: Failed password for rw45 from 127.0.0.1 port 39099 ssh2
187123	fs1.esc.rl.ac.uk	info	2005-04-13	16:40:55	sshd[23425]: Accepted password for rw45 from 130.246.8.223 port 32773 ssh2
185192	fs1.esc.rl.ac.uk	info	2005-04-11	10:24:29	sshd[26893]: Accepted password for rw45 from 130.246.8.223 port 33463 ssh2
169835	fs1.esc.rl.ac.uk	info	2005-03-29	15:06:31	sshd[7454]: Accepted password for rw45 from 130.246.143.138 port 54705 ssh2
169553	fs1.esc.rl.ac.uk	info	2005-03-29	14:17:39	sshd[5233]: Accepted password for rw45 from 130.246.143.138 port 53040 ssh2
169541	fs1.esc.rl.ac.uk	info	2005-03-29	14:14:09	sshd[5038]: Accepted password for rw45 from 130.246.143.204 port 32817 ssh2
169540	fs1.esc.rl.ac.uk	info	2005-03-29	14:12:52	sshd[4954]: Accepted password for rw45 from 130.246.132.129 port 37708 ssh2
169516	fs1.esc.rl.ac.uk	info	2005-03-29	14:10:44	sshd[4896]: Accepted password for rw45 from 130.246.140.146 port 33717 ssh2
169515	fs1.esc.rl.ac.uk	info	2005-03-29	14:10:38	sshd[4896]: Failed password for rw45 from 130.246.140.146 port 33717 ssh2
169502	fs1.esc.rl.ac.uk	info	2005-03-29	14:09:20	sshd[4879]: Accepted password for rw45 from 130.246.140.141 port 34292 ssh2
169501	fs1.esc.rl.ac.uk	info	2005-03-29	14:08:59	sshd[4823]: Accepted password for rw45 from 130.246.140.142 port 55386 ssh2
169500	fs1.esc.rl.ac.uk	info	2005-03-29	14:08:22	sshd[4743]: Accepted password for rw45 from 130.246.140.144 port 32977 ssh2
169451	fs1.esc.rl.ac.uk	info	2005-03-29	14:02:53	sshd[4457]: Accepted password for rw45 from 130.246.140.144 port 32976 ssh2
169449	fs1.esc.rl.ac.uk	info	2005-03-29	13:59:40	sshd[4379]: Accepted password for rw45 from 130.246.140.146 port 33714 ssh2
169411	fs1.esc.rl.ac.uk	info	2005-03-29	13:57:42	sshd[4221]: Accepted password for rw45 from 130.246.132.129 port 37552 ssh2
169409	fs1.esc.rl.ac.uk	info	2005-03-29	13:57:10	sshd[4207]: Accepted password for rw45 from 130.246.140.141 port 34289 ssh2
169398	fs1.esc.rl.ac.uk	info	2005-03-29	13:56:45	sshd[4191]: Accepted password for rw45 from 130.246.140.142 port 54625 ssh2
169397	fs1.esc.rl.ac.uk	info	2005-03-29	13:55:59	sshd[4075]: Accepted password for rw45 from 130.246.140.142 port 54618 ssh2
169396	fs1.esc.rl.ac.uk	info	2005-03-29	13:55:52	sshd[4026]: Accepted password for rw45 from 130.246.140.142 port 54617 ssh2
169394	fs1.esc.rl.ac.uk	info	2005-03-29	13:55:11	sshd[3969]: Accepted password for rw45 from 130.246.140.142 port 54581 ssh2
169393	fs1.esc.rl.ac.uk	info	2005-03-29	13:55:07	sshd[3969]: Failed password for rw45 from 130.246.140.142 port 54581 ssh2
150540	rennes.esc.rl.ac.uk	info	2005-03-14	22:22:11	sshd[9553]: Failed password for rw45 from 130.246.183.174 port 42124
138307	fs1.esc.rl.ac.uk	info	2005-02-10	11:37:24	sshd[6892]: Accepted password for rw45 from 130.246.8.223 port 35680 ssh2
134567	webs.esc.rl.ac.uk	info	2005-01-30	01:14:59	sshd[6658]: Failed password for rw45 from 130.246.135.150 port 1444 ssh2
134566	webs.esc.rl.ac.uk	info	2005-01-30	01:14:50	sshd[6658]: Failed password for rw45 from 130.246.135.150 port 1444 ssh2

Done .ac.uk Proxy: RAL



- Tracking network scans

romain@romain:~\$ telnet fougères.esc.rl.ac.uk 24
Trying 130.246.140.144...

Network Syslog Server -
Wednesday :: April 27, 2005
Your IP: 130.246.8.223

NETWORK SYSLOG MONITOR RESULTS

BACK TO SEARCH
Number of Syslog Entries: 4358

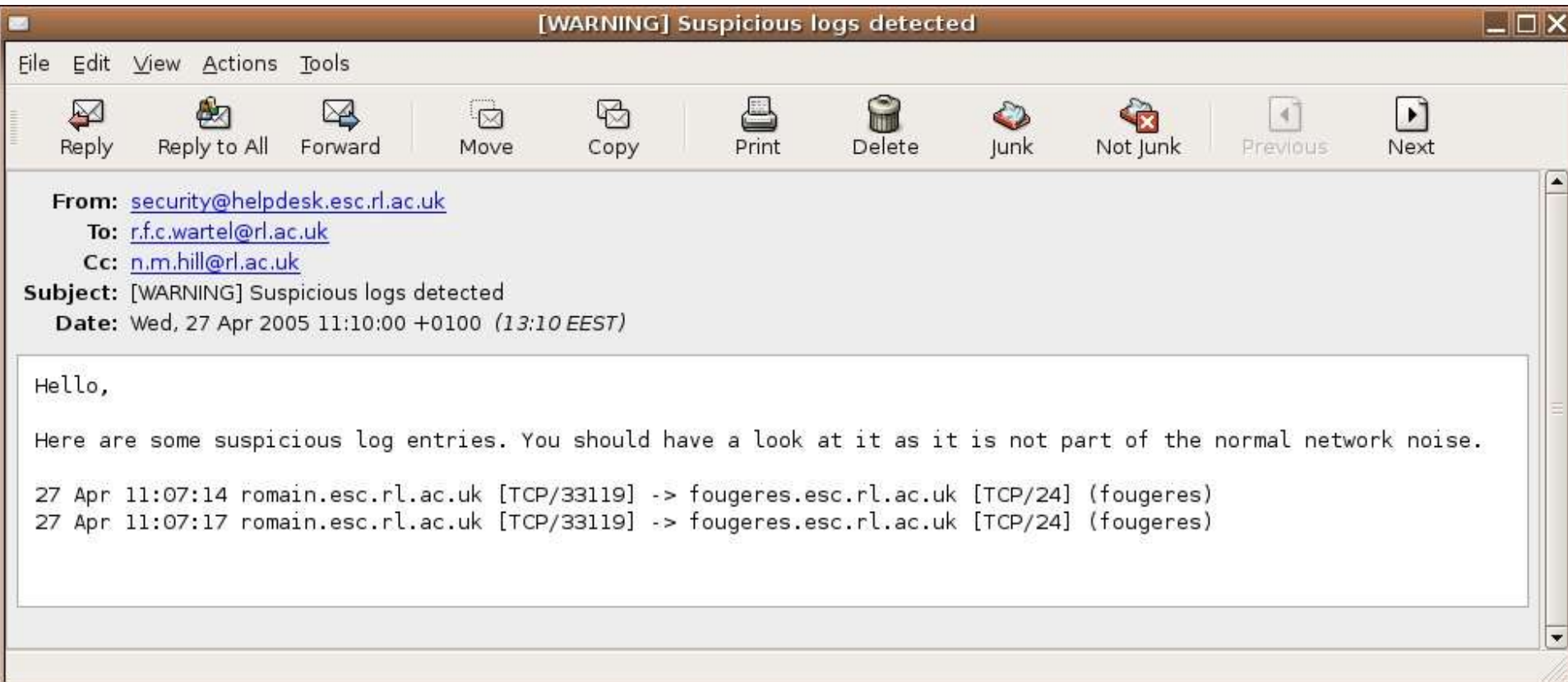
SEVERITY LEGENED
INFO DEBUG NOTICE WARNING ERR CRIT ALERT

SEQ	HOST	PRIORITY	DATE	TIME	MESSAGE
200239	fougères.esc.rl.ac.uk	warning	2005-04-27	11:07:17	kernel: [DENIED] IN=eth0 OUT= MAC=00:40:05:8b:06:c0:00:04:dc:21:26:1d:08:00 SRC=130.246.8.223 DST=130.246.140.144 LEN=60 TOS=0x10 PREC=0x00 TTL=63 ID=38958 DF PROTO=TCP SPT=33119 DPT=24 WINDOW=5840 RES=0x00 SYN URGP=0
200238	fougères.esc.rl.ac.uk	warning	2005-04-27	11:07:14	kernel: [DENIED] IN=eth0 OUT= MAC=00:40:05:8b:06:c0:00:04:dc:21:26:1d:08:00 SRC=130.246.8.223 DST=130.246.140.144 LEN=60 TOS=0x10 PREC=0x00 TTL=63 ID=38956 DF PROTO=TCP SPT=33119 DPT=24 WINDOW=5840 RES=0x00 SYN URGP=0
200045	fougères.esc.rl.ac.uk	warning	2005-04-26	15:41:19	[blurred text]
200044	fougères.esc.rl.ac.uk	warning	2005-04-26	15:41:16	[blurred text]
199897	fougères.esc.rl.ac.uk	warning	2005-04-26	10:58:27	[blurred text]

Done c.uk Proxy: RAL



- Network scan alerts





- Tracking user logins

romain@romain:~\$ ssh rw45@fougeres.esc.rl.ac.uk
rw45@fougeres.esc.rl.ac.uk's password:
Permission denied, please try again.

eScience Syslog Server - 2.5.1 - Mozilla Firefox

File Edit View Go Bookmarks Tools Help

Network Syslog Server -
Wednesday :: April 27, 2005
Your IP: 130.246.8.223

NETWORK SYSLOG MONITOR RESULTS

BACK TO SEARCH
Number of Syslog Entries: 1

SEVERITY LEGENED
INFO DEBUG NOTICE WARNING ERR CRIT ALERT

SEQ	HOST	PRIORITY	DATE	TIME	MESSAGE
200240	fougeres.esc.rl.ac.uk	info	2005-04-27	11:14:07	sshd[3396]: Failed password for illegal user rw45 from 130.246.8.223 port 33135 ssh2

Result Page: [1]

Executed in 0.084636926651001 seconds



- User logins alert:





GridPP

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Q&A