



## **Today's Topics**

What is a security flaw?

What is an RHSA

What gets fixed

How can I find more information about security flaws



## The world today

Security cannot be ignored

**Threats** 

Crackers

Worms

**Botnets** 

**Phishers** 

**Spammers** 



## **Security Bugs**

All software has bugs

Some of these bugs have security implications

What's the difference?

Not all software is written equally

Code quality differs between projects



## **Examples**

Image file that crashes the image viewer

Bug (just don't open it again)

Image file that zips up your home directory and mails it to the bad guys

Security flaw

Crash the computer with a network packet Security flaw

Crash the computer by smashing it with a hammer Not a security flaw (probably not a bug either)



## Organizing our bugs

Every security issue gets a CVE id

Not all CVE ids are security issues

Vendor disputes

MITRE is often quite liberal with CVE assignment

Not every CVE id affects us



## **Deciding what to fix**

We have a set of issues

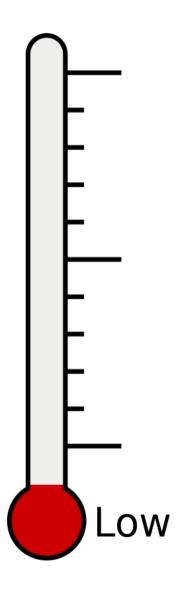
Some new, some old

Fix it now?

Fix it later?

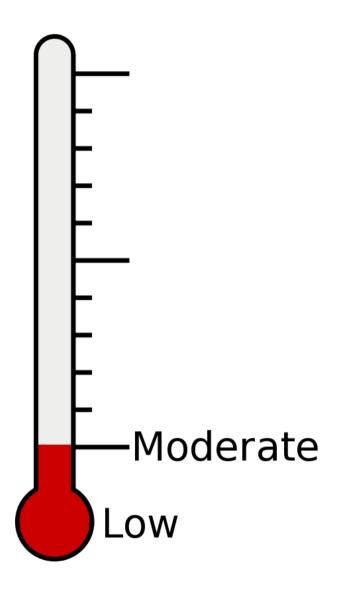
We have finite resources, flaws must be prioritized and dealt with in a sensible order





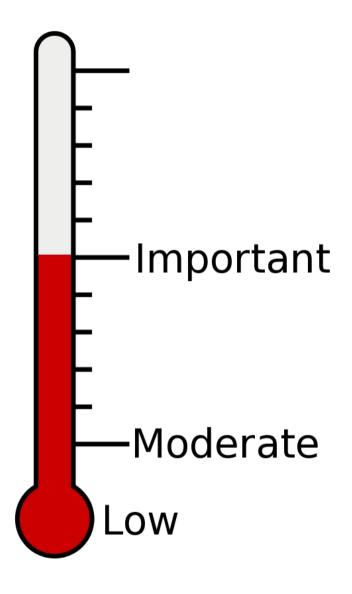
"unlikely circumstances .. or where a successful exploit would lead to minimal consequences"





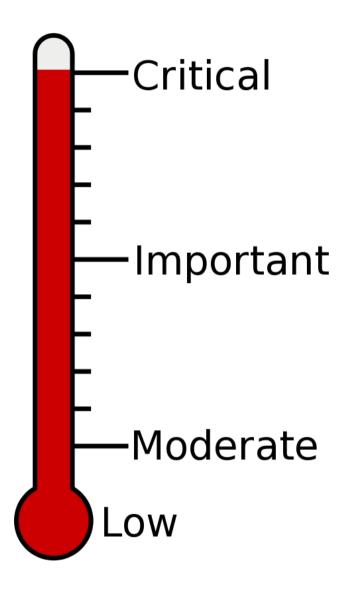
"harder or more unlikely to be exploitable"





"easily compromise the Confidentiality, Integrity or Availability of resources"





"A vulnerability whose exploitation could allow the propagation of an Internet worm without user action."



#### How do we fix it?

Backport the patch

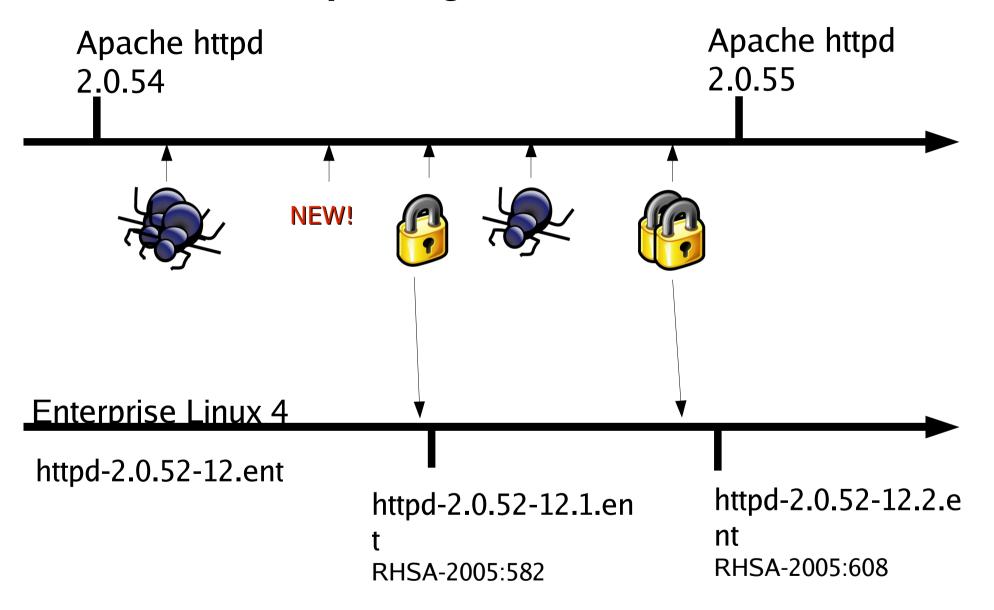
Upgrade

This is not common

The update is bundled in a security advisory



## **How Does Backporting Work?**





#### What is an RHSA?

Red Hat Security Advisory

Special Errata that fix security flaws

Sometimes bugs too

Released when an update is ready

No pre-defined update schedule



### What's in an RHSA?

Header

**Details** 

Solution

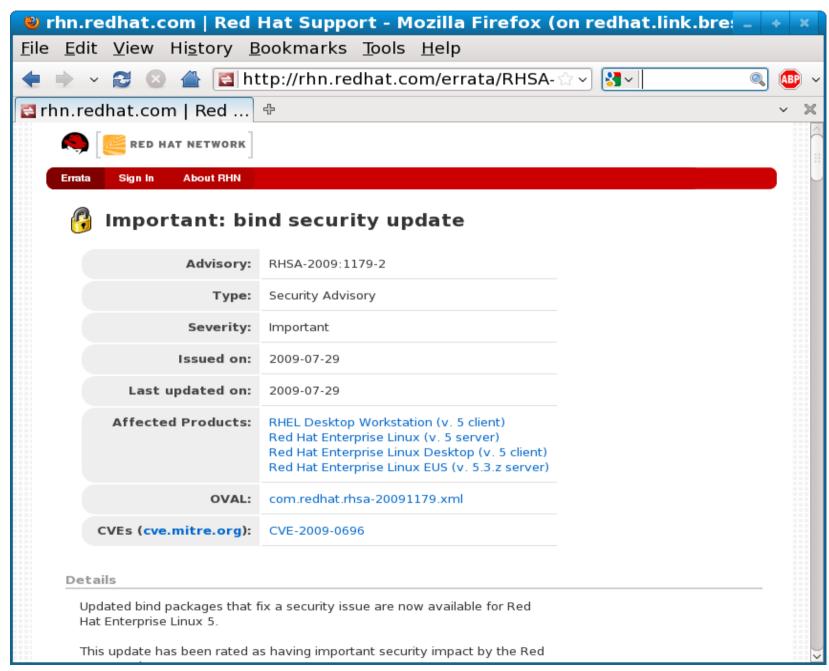
**Updated Packages** 

**Bugs Fixed** 

References

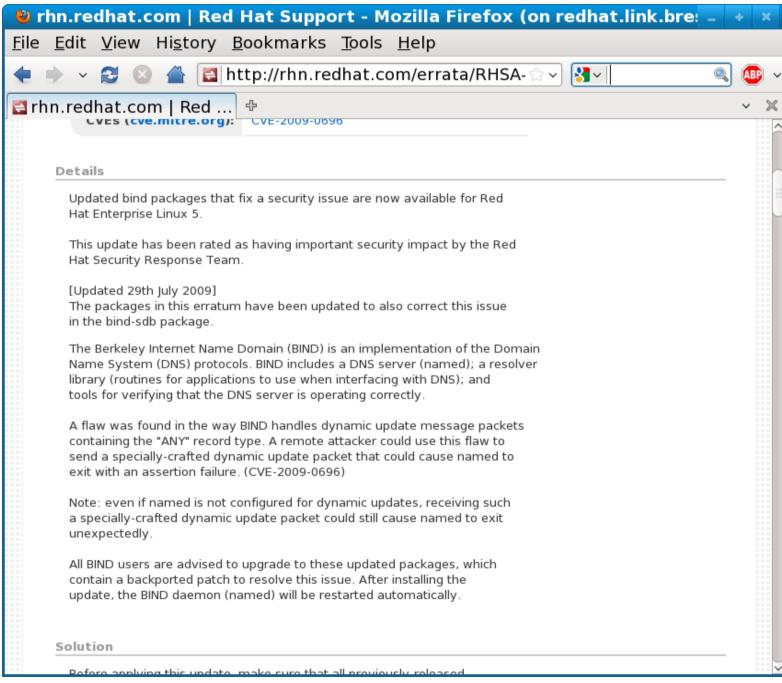


#### **Errata Header**



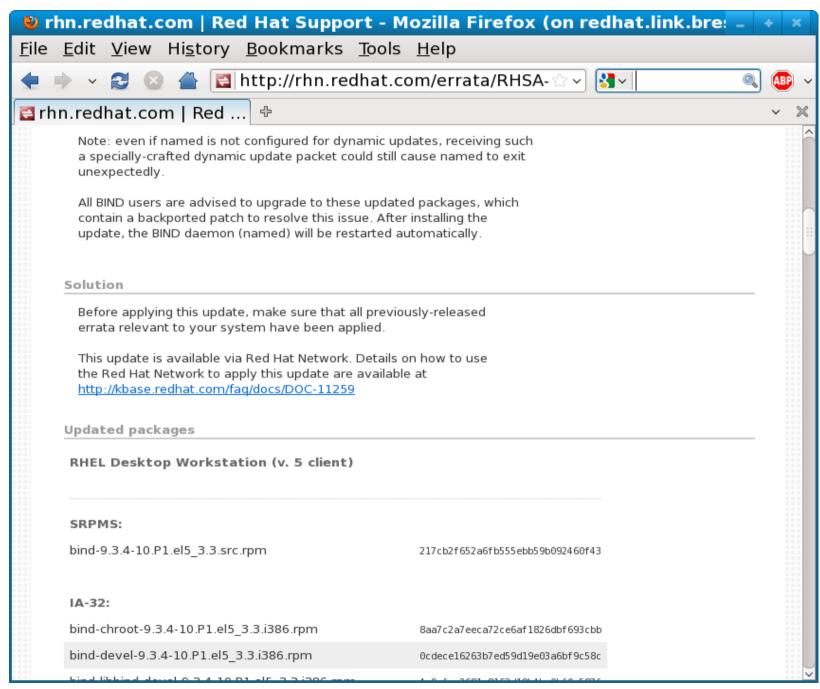


#### **Details**



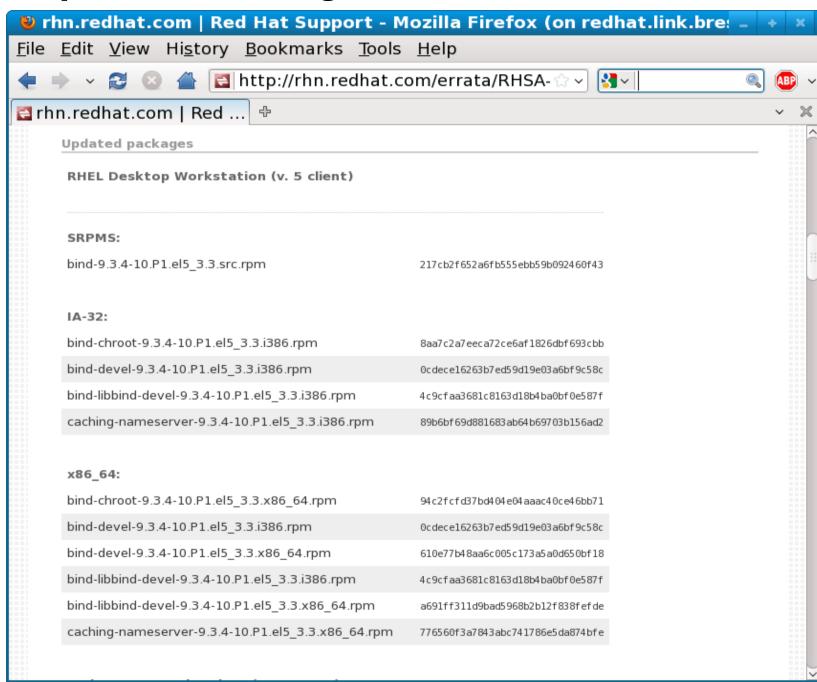


### **Solution**



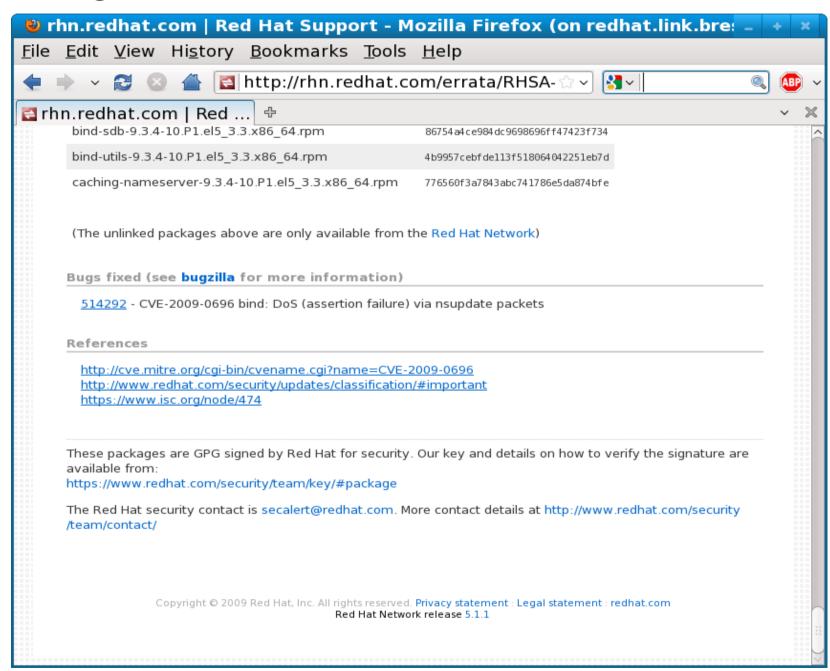


## **Updated Packages**



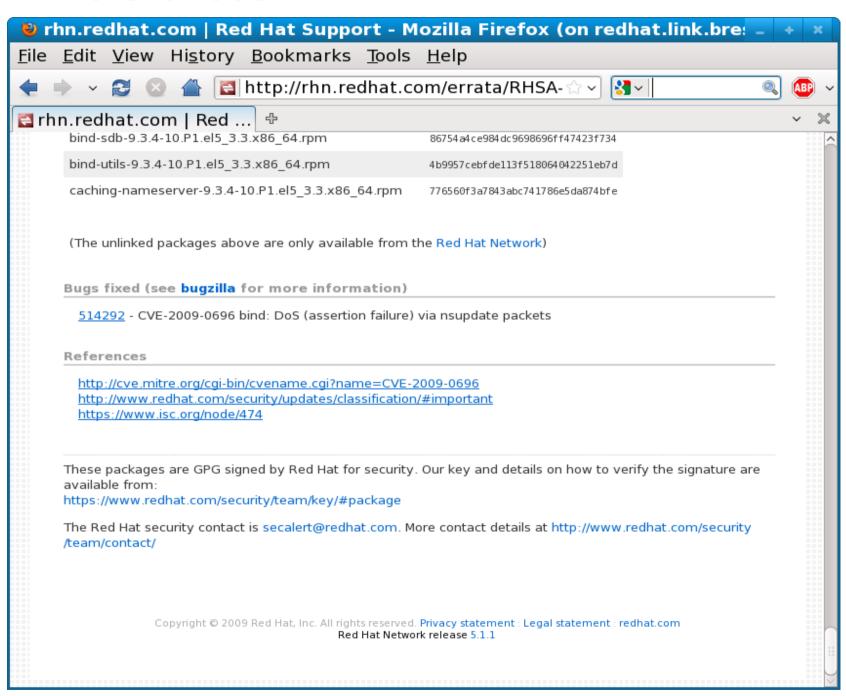


## **Bugs Fixed**





#### References





## Mining for CVE data

What happens if I want information on a specific CVE id?



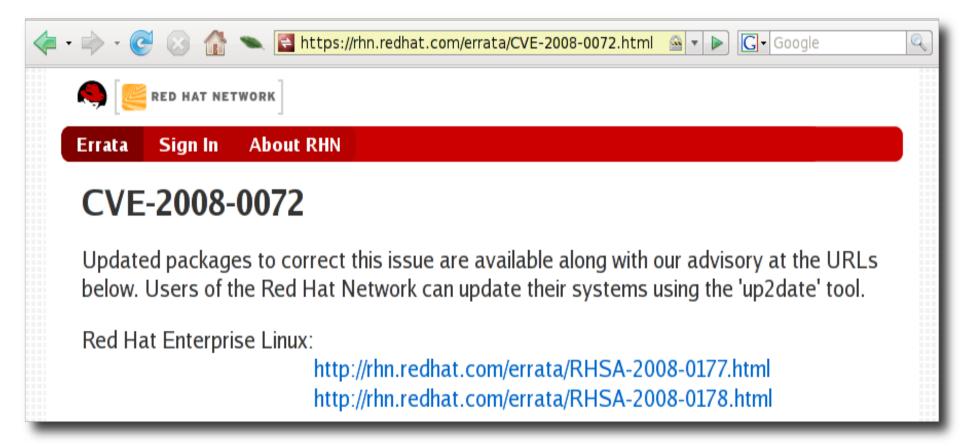
## **Old Way**

Our previous instructions were quite manual Multiple locations had to be checked



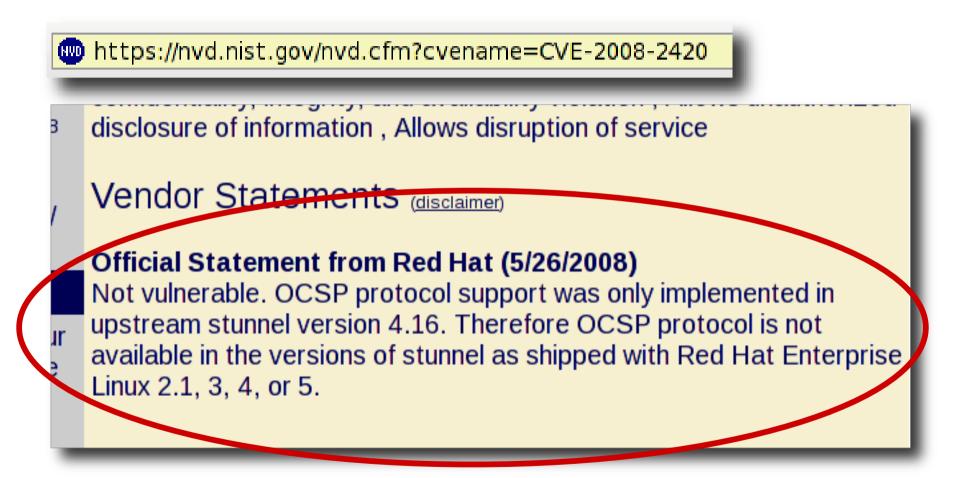
#### Does an issue affect Red Hat?

Get the CVE name and use RHN see if we've issued an update already

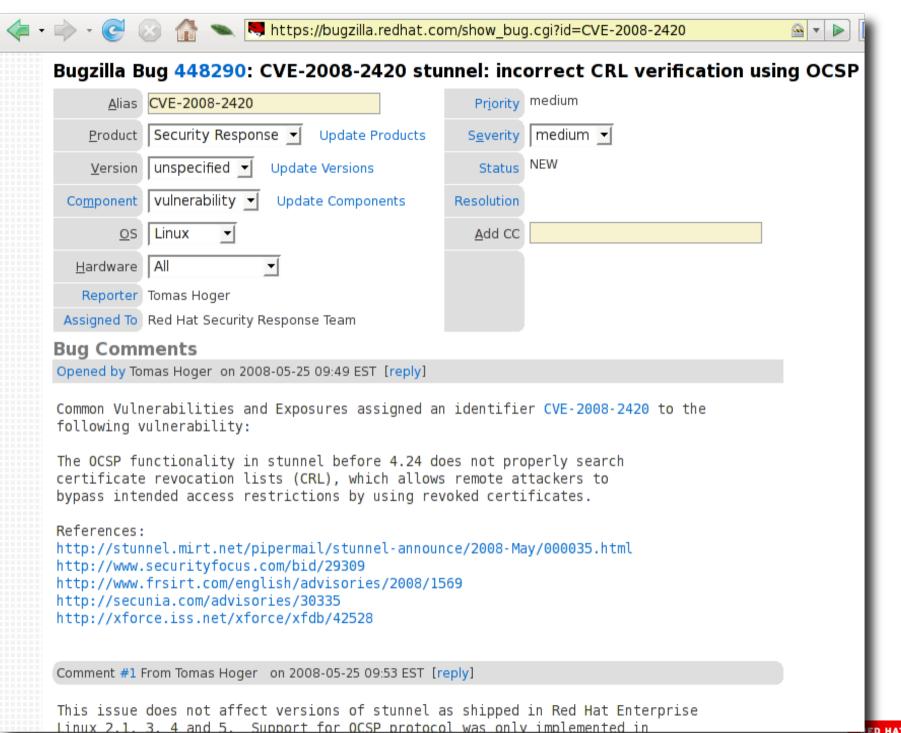




## Perhaps it doesn't affect us, try NVD

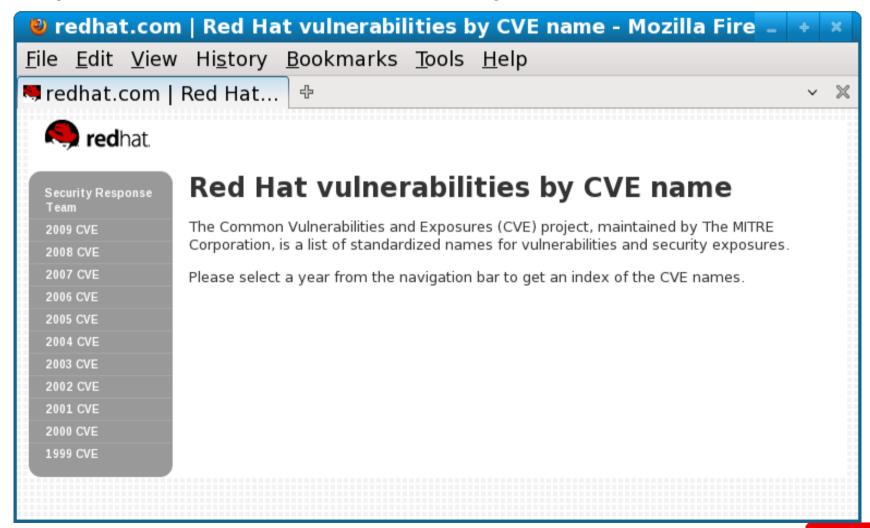






## **New Way**

## http://www.redhat.com/security/data/cve





<u>File Edit View History Bookmarks Tools Help</u>

🤜 redhat.com | CVE-200...







Security Response Team

OUT 0000 040

CVE-2009-2408

2008 CVE

2009 CVE

2007 CVE 2006 CVE

2005 CVE

2004 CVE

2003 CVE

2002 CVE

2001 CVE 2000 CVE

1999 CVE

CVE-2009-2408

Impact: Important (classification)

Public: July 29 2009

Bugzilla: 510251: CVE-2009-2408 firefox/nss: doesn't handle NULL in Common Name properly

Details

The MITRE CVE dictionary describes this issue as:

Mozilla Firefox before 3.5 and NSS before 3.12.3 do not properly handle a '\0' character in a domain name in the subject's Common Name (CN) field of an X.509 certificate, which allows man-in-the-middle attackers to spoof arbitrary SSL servers via a crafted certificate issued by a legitimate Certification Authority.

Find out more about CVE-2009-2408 from the MITRE CVE dictionary and NIST NVD.

CVSS v2 metrics

Base Score: 4.3 Base Metrics: AV:N/AC:M/Au:N/C:N/I:P/A:N

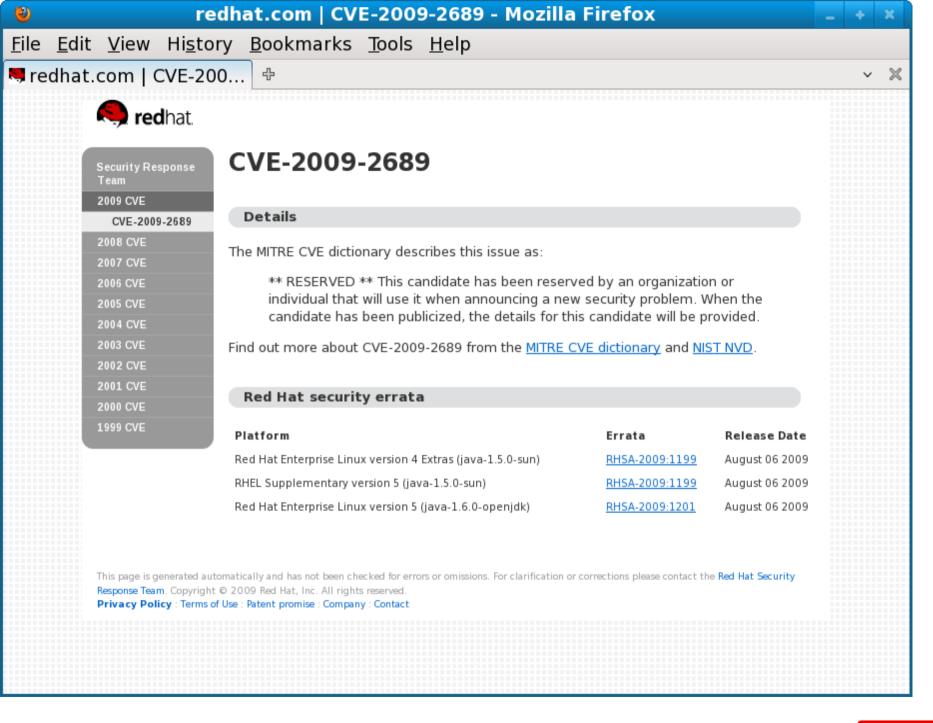
Access Vector: Network Confidentiality Impact: None
Access Complexity: Medium Integrity Impact: Partial
Authentication: None Availability Impact: None

Find out more about Red Hat support for the Common Vulnerability Scoring System (CVSS).

#### Red Hat security errata

Platform	Errata	Release Date
Red Hat Enterprise Linux version 4	RHSA-2009:1184	July 30 2009
Red Hat Enterprise Linux version 5	RHSA-2009:1186	July 30 2009
Red Hat Enterprise Linux version 4.7.z	RHSA-2009:1190	July 31 2009











#### **Passive Notification**

Red Hat Network will notify you of updates needed to packages installed on your systems



By email if you enable it

By up2date/pup

By logging in

Cuts down the number of alerts to those that affect your installation

Subscribing to enterprise-watch-list@redhat.com or rhsa-announce@redhat.com

From the web https://rhn.redhat.com/errata/

RSS feed



## QUESTIONS?

# TELL US WHAT YOU THINK: REDHAT.COM/SUMMIT-SURVEY