



# Fortify on Demand Security Review

<b>Company:</b>	<b>Fortify Open Review</b>
<b>Project:</b>	<b>Cubicweb</b>
<b>Version:</b>	<b>3.20.6</b>
<b>Latest Analysis:</b>	<b>4/24/2015 6:52:58 AM</b>

# Executive Summary

Company: Fortify Open Review  
 Project: Cubicweb  
 Version: 3.20.6  
 Static Analysis Date: 4/24/2015 6:52:58 AM  
 Dynamic Analysis Date:

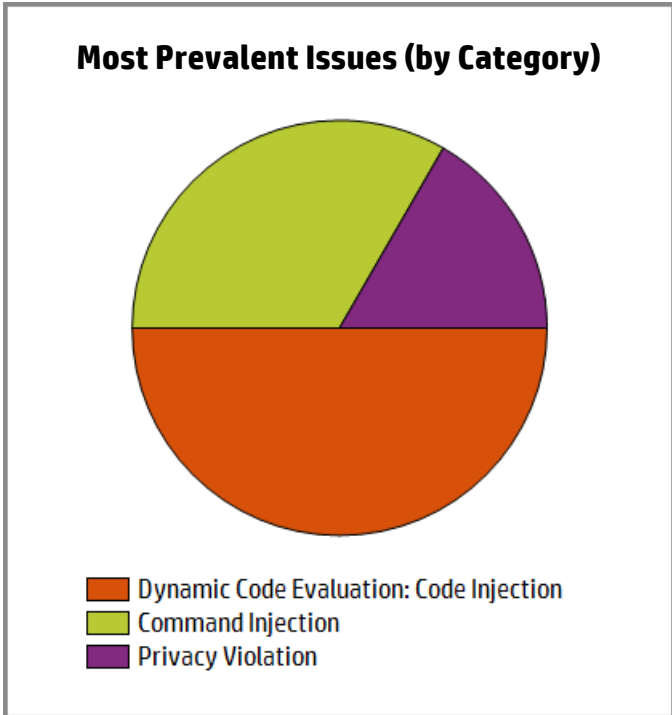
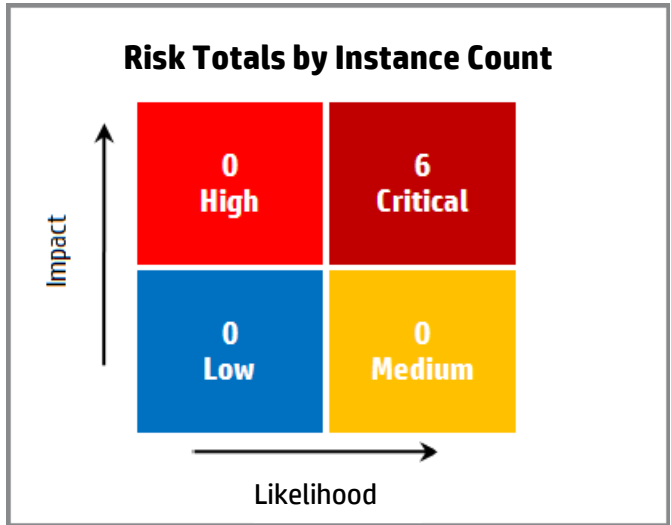
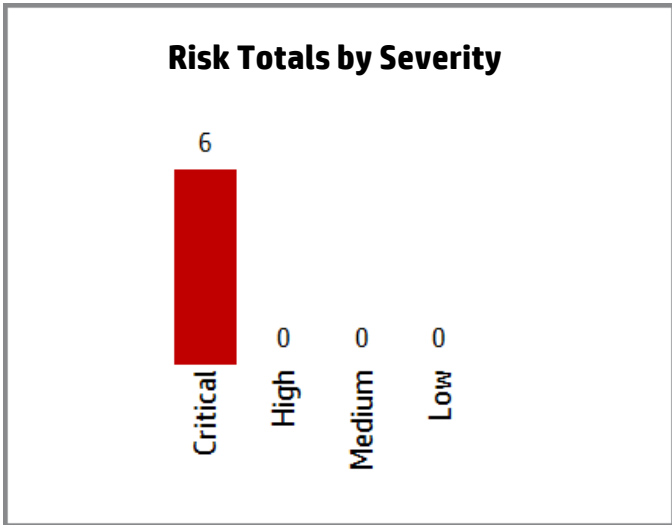
**Fortify Security Rating**

★☆☆☆☆

6 issues

Static: <span style="color: green; font-size: 1.5em;">✓</span>	Dynamic: <span style="color: red; font-size: 1.5em;">✗</span>
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## Application Details

### Remediation Roadmap

To Achieve	Major Fixes	Minor Fixes
★☆☆☆☆	0	6
★★★★☆	0	0
★★★☆☆	0	0
★★☆☆☆	0	0
★☆☆☆☆	0	0

### Issue Status

New	Existing	Reopened
6	0	0

# Issue Breakdown

Issues are divided based on their impact (potential damage) and likelihood (probability of identification and exploit).

High impact / high likelihood issues represent the highest priority and present the greatest threat.

Low impact / low likelihood issues are the lowest priority and present the smallest threat.

See Appendix for more information.

Rating	Category	Test Type	Instance Count
Critical	Command Injection	Static	2
Critical	Dynamic Code Evaluation: Code Injection	Static	3
Critical	Privacy Violation	Static	1

# Issue Breakdown by OWASP Top 10 2013 PCI Sections 6.3, 6.5 & 6.6

The OWASP Top Ten represents a broad consensus about what the most critical web application security flaws are. Project members include a variety of security experts from around the world who have shared their expertise to produce this list.

The PCI compliance standards, particularly sections 6.3, 6.5, and 6.6, reference the OWASP Top Ten vulnerability categories as the core categories that must be tested for and remediated.

OWASP 2013 Category	Severity			
	Critical	High	Medium	Low
A1 Injection	5			
A6 Sensitive Data Exposure	1			
Total	6			

# Issue Breakdown by Analysis Type

Issues are divided based on their impact (potential damage) and likelihood (probability of identification and exploit).

High impact / high likelihood issues represent the highest priority and present the greatest threat.

Low impact / low likelihood issues are the lowest priority and present the smallest threat.

See Appendix for more information.

Category	Static	Dynamic
Command Injection	2	0
Dynamic Code Evaluation: Code Injection	3	0
Privacy Violation	1	0
Total	6	0

# Issue Details

Below is an enumeration of all issues found in the project. The issues are organized by priority and category and then broken down by the package, namespace, or location in which they occur.

The priority of an issue can be Critical, High, Medium, or Low.

Issues from static analysis reported on at same line number with the same category originate from different taint sources.

## 6.1.1 Command Injection

**Critical**

**CWE ID 77, CWE ID 78**

**OWASP Top 10: A1 Injection**

**PCI 3.0: Requirement 6.5.1**

### Summary

Line in calls with a command built from untrusted data. This call can cause the program to execute malicious commands on behalf of an attacker. Executing commands from an untrusted source or in an untrusted environment can cause an application to execute malicious commands on behalf of an attacker.

### Explanation

Command injection vulnerabilities take two forms:

- An attacker can change the command that the program executes: the attacker explicitly controls what the command is.
- An attacker can change the environment in which the command executes: the attacker implicitly controls what the command means.

In this case we are primarily concerned with the first scenario, the possibility that an attacker may be able to control the command that is executed. Command injection vulnerabilities of this type occur when:

1. Data enters the application from an untrusted source.

In this case the data enters at in **cwctl.py** at line **630**.

Even though the data in this case is a number, it is unvalidated and thus still considered malicious, hence the vulnerability is still reported but with reduced priority values.

2. The data is used as or as part of a string representing a command that is executed by the application.

In this case the command is executed by in **cwctl.py** at line **634**.

3. By executing the command, the application gives an attacker a privilege or capability that the attacker would not otherwise have.

**Example 1:** The following code from a system utility uses the system property `APPHOME` to determine the directory in which it is installed and then executes an initialization script based on a relative path from the specified directory.

```
...
home = os.getenv('APPHOME')
cmd = home.join(INITCMD)
os.system(cmd);
...
```

The code in Example 1 allows an attacker to execute arbitrary commands with the elevated privilege of the application by modifying the system property `APPHOME` to point to a different path containing a malicious version of `INITCMD`. Because the program does not validate the value read from the environment, if an attacker can control the value of the system property `APPHOME`, then they can fool the application into running

malicious code and take control of the system.

**Example 2:** The following code is from an administrative web application designed to allow users to kick off a backup of an Oracle database using a batch-file wrapper around the `rman` utility and then run a `cleanup.bat` script to delete some temporary files. The script `rmanDB.bat` accepts a single command line parameter, which specifies the type of backup to perform. Because access to the database is restricted, the application runs the backup as a privileged user.

```
...
btype = req.field('backuptype')
cmd = "cmd.exe /K \"c:\\util\\rmanDB.bat " + btype + "&&c:\\util\\cleanup.bat\""
os.system(cmd);
...
```

The problem here is that the program does not do any validation on the `backuptype` parameter read from the user. Typically the `Runtime.exec()` function will not execute multiple commands, but in this case the program first runs the `cmd.exe` shell in order to run multiple commands with a single call to `Runtime.exec()`. Once the shell is invoked, it will allow for the execution of multiple commands separated by two ampersands. If an attacker passes a string of the form `"&& del c:\\dbms\\*. *"`, then the application will execute this command along with the others specified by the program. Because of the nature of the application, it runs with the privileges necessary to interact with the database, which means whatever command the attacker injects will run with those privileges as well.

**Example 3:** The following code is from a web application that allows users access to an interface through which they can update their password on the system. Part of the process for updating passwords in certain network environments is to run a `make` command in the `/var/yp` directory, the code for which is shown below.

```
...
result = os.system("make");
...
```

The problem here is that the program does not specify an absolute path for `make` and fails to clean its environment prior to executing the call to `os.system()`. If an attacker can modify the `$PATH` variable to point to a malicious binary called `make` and cause the program to be executed in their environment, then the malicious binary will be loaded instead of the one intended. Because of the nature of the application, it runs with the privileges necessary to perform system operations, which means the attacker's `make` will now be run with these privileges, possibly giving the attacker complete control of the system.

## Recommendation

Do not allow users to have direct control over the commands executed by the program. In cases where user input must affect the command to be run, use the input only to make a selection from a predetermined set of safe commands. If the input appears to be malicious, the value passed to the command execution function should either default to some safe selection from this set or the program should decline to execute any command at all.

In cases where user input must be used as an argument to a command executed by the program, this approach often becomes impractical because the set of legitimate argument values is too large or too hard to keep track of. Developers often fall back on blacklisting in these situations. Blacklisting selectively rejects or escapes potentially dangerous characters before using the input. Any list of unsafe characters is likely to be incomplete and will be heavily dependent on the system where the commands are executed. A better approach is to create a whitelist of characters that are allowed to appear in the input and accept input composed exclusively of characters in the approved set.

An attacker can indirectly control commands executed by a program by modifying the environment in which they are executed. The environment should not be trusted and precautions should be taken to prevent an attacker from using some manipulation of the environment to perform an attack. Whenever possible, commands should be controlled by the application and executed using an absolute path. In cases where the path is not known at compile time, such as for cross-platform applications, an absolute path should be constructed from trusted values during execution. Command values and paths read from configuration files or the environment should be sanity-checked against a set of invariants that define valid values.

Other checks can sometimes be performed to detect if these sources may have been tampered with. For example, if a configuration file is world-writable, the program might refuse to run. In cases where information about the binary to be executed is known in advance, the program may perform checks to verify the identity of the binary. If a binary should always be owned by a particular user or have a particular set of access permissions assigned to it, these properties can be verified programmatically before the binary is executed.

Although it may be impossible to completely protect a program from an imaginative attacker bent on controlling the commands the program executes, be sure to apply the principle of least privilege wherever the program executes an external command: do not hold privileges that are not essential to the execution of the command.

# Instances

## Command Injection

Critical

Package: cubicweb~3\_20\_6.cwctl

Location	Analysis Info	Analyzer
ID 14057508 - cwctl.py:634	<b>Sink:</b> cubicweb~3_20_6.cwctl.RestartInstanceCommand.run_args <b>Enclosing Method:</b> run_args <b>Source:</b> Read ~locals~.~parent~.~parent~.sys.argv from .cubicweb~3_20_6.cwctl~list~comprehension~4 in cwctl.py:630	dataflow
ID 14057512 - cwctl.py:813	<b>Sink:</b> cubicweb~3_20_6.cwctl.UpgradeInstanceCommand.upgrade_instance <b>Enclosing Method:</b> upgrade_instance <b>Source:</b> Read ~locals~.~parent~.sys.argv from cubicweb~3_20_6.cwctl.UpgradeInstanceCommand.upgrade_instance in cwctl.py:812	dataflow



## 6.1.2 Dynamic Code Evaluation: Code Injection

Critical

CWE ID 95, CWE ID 494

OWASP Top 10: A1 Injection

PCI 3.0: Requirement 6.5.1

### Summary

The file interprets unvalidated user input as source code on line . Interpreting user-controlled instructions at run-time can allow attackers to execute malicious code. Interpreting user-controlled instructions at run-time can allow attackers to execute malicious code.

### Explanation

Many modern programming languages allow dynamic interpretation of source instructions. This capability allows programmers to perform dynamic instructions based on input received from the user. Code injection vulnerabilities occur when the programmer incorrectly assumes that instructions supplied directly from the user will perform only innocent operations, such as performing simple calculations on active user objects or otherwise modifying the user's state. However, without proper validation, a user might specify operations the programmer does not intend.

Even though the data in this case is a number, it is unvalidated and thus still considered malicious, hence the vulnerability is still reported but with reduced priority values.

**Example:** In this classic code injection example, the application implements a basic calculator that allows the user to specify commands for execution.

```
...
userOp = form.operation.value;
calcResult = eval(userOp);
...
```

The program behaves correctly when the `operation` parameter is a benign value, such as "8 + 7 \* 2", in which case the `calcResult` variable is assigned a value of 22. However, if an attacker specifies languages operations that are both valid and malicious, those operations would be executed with the full privilege of the parent process. Such attacks are even more dangerous when the underlying language provides access to system resources or allows execution of system commands. In the case of JavaScript, the attacker can utilize this vulnerability to perform a cross-site scripting attack.

### Recommendation

Avoid dynamic code interpretation whenever possible. If your program's functionality requires code to be interpreted dynamically, the likelihood of attack can be minimized by constraining the code your program will execute dynamically as much as possible, limiting it to an application- and context-specific subset of the base programming language.

If dynamic code execution is required, unvalidated user input should never be directly executed and interpreted by the application. Instead, a level of indirection should be introduced: create a list of legitimate operations and data objects that users are allowed to specify, and only allow users to select from the list. With this approach, input provided by users is never executed directly.

### Instances

Dynamic Code Evaluation: Code Injection

Critical

Package: N/A		
Location	Analysis Info	Analyzer
ID 14057510 - web/data/cubicweb.timeline-bundle.js:4339	<b>Sink:</b> eval() in cubicweb.timeline-bundle.js:4339 <b>Enclosing Method:</b> lambda <b>Source:</b> Read xmlhttp.responseText from ..lambda in cubicweb.timeline-bundle.js:4339	dataflow

ID 14057511 - web/data/cubicweb.timeline-bundle.js:4176	<b>Sink:</b> eval() in cubicweb.timeline-bundle.js:4176 <b>Enclosing Method:</b> lambda <b>Source:</b> Read xmlhttp.responseText from ..lambda in cubicweb.timeline-bundle.js:4176	dataflow
ID 14057507 - web/data/jquery.tablesorter.js:767	<b>Sink:</b> setTimeout() in jquery.tablesorter.js:767 <b>Enclosing Method:</b> lambda <b>Source:</b> Read ~t~parent.\$this['0'].tBodies['0'].rows .length from ..lambda in jquery.tablesorter.js:717	dataflow

## 6.1.3 Privacy Violation

Critical

CWE ID 359

OWASP Top 10: A6 Sensitive Data Exposure

PCI 3.0: Requirement 3.2, Requirement 3.4, Requirement 4.2, Requirement 8.2.1

### Summary

The file mishandles confidential information on line , which can compromise user privacy and is often illegal. Mishandling private information, such as customer passwords or social security numbers, can compromise user privacy and is often illegal.

### Explanation

Privacy violations occur when:

1. Private user information enters the program.

In this case the data comes from in `serverctl.py` at line **188**.

2. The data is written to an external location, such as the console, file system, or network.

In this case the data is passed to in `serverctl.py` at line **188**.

**Example:** The following code contains a logging statement that tracks the contents of records added to a database by storing them in a log file. Among other values that are stored is the return value from the `getPassword()` function that returns user-supplied plaintext password associated with the account.

```
pass = getPassword();
logger.warning('%s: %s %s %s', id, pass, type, tsstamp)
```

The code in the example above logs a plaintext password to the application eventlog. Although many developers trust the eventlog as a safe storage location for data, it should not be trusted implicitly, particularly when privacy is a concern.

Private data can enter a program in a variety of ways:

- Directly from the user in the form of a password or personal information
- Accessed from a database or other data store by the application
- Indirectly from a partner or other third party

Sometimes data that is not labeled as private can have a privacy implication in a different context. For example, student identification numbers are usually not considered private because there is no explicit and publicly-available mapping to an individual student's personal information. However, if a school generates identification numbers based on student social security numbers, then the identification numbers should be considered private.

Security and privacy concerns often seem to compete with each other. From a security perspective, you should record all important operations so that any anomalous activity can later be identified. However, when private data is involved, this practice can create risk.

Although there are many ways in which private data can be handled unsafely, a common risk stems from misplaced trust. Programmers often trust the operating environment in which a program runs, and therefore believe that it is acceptable to store private information on the file system, in the registry, or in other locally-controlled resources. However, even if access to certain resources is restricted, this does not guarantee that the individuals who do have access can be trusted. For example, in 2004, an unscrupulous employee at AOL sold approximately 92 million private customer e-mail addresses to a spammer marketing an offshore gambling web site [1].

In response to such high-profile exploits, the collection and management of private data is becoming increasingly regulated. Depending on its location, the type of business it conducts, and the nature of any private data it handles, an organization may be required to comply with one or more of the following federal and state regulations:

- Safe Harbor Privacy Framework [3]
- Gramm-Leach Bliley Act (GLBA) [4]
- Health Insurance Portability and Accountability Act (HIPAA) [5]

- California SB-1386 [6]

Despite these regulations, privacy violations continue to occur with alarming frequency.

## Recommendation

When security and privacy demands clash, privacy should usually be given the higher priority. To accomplish this and still maintain required security information, cleanse any private information before it exits the program.

To enforce good privacy management, develop and strictly adhere to internal privacy guidelines. The guidelines should specifically describe how an application should handle private data. If your organization is regulated by federal or state law, ensure that your privacy guidelines are sufficiently strenuous to meet the legal requirements. Even if your organization is not regulated, you must protect private information or risk losing customer confidence.

The best policy with respect to private data is to minimize its exposure. Applications, processes, and employees should not be granted access to any private data unless the access is required for the tasks that they are to perform. Just as the principle of least privilege dictates that no operation should be performed with more than the necessary privileges, access to private data should be restricted to the smallest possible group.

## References

200520022003

## Instances

Privacy Violation

Critical

Package: cubicweb~3_20_6.server.serverctl		
Location	Analysis Info	Analyzer
ID 14057509 - server/serverctl.py:188	<b>Sink:</b> cubicweb~3_20_6.server.serverctl.RepositoryCreateHandler.bootstrap <b>Enclosing Method:</b> bootstrap <b>Source:</b> Read ~locals~.password from cubicweb~3_20_6.server.serverctl.RepositoryCreateHandler.bootstrap in serverctl.py:188	dataflow

# Analysis Traces

Below is an enumeration of all static issues with their stack trace sections.

## ID 14057508 - Command Injection

**Critical**

### Analysis Trace

### Source

```
⚠️ cwctl.py:630 - Read ~locals~.~parent~.~parent~.sys.argv
🔍() cwctl.py:630 - ~python~iterator(0 : return)
🔍() cwctl.py:630 - next(0 : return)
⚠️ cwctl.py:630 - Assignment to ~locals~.w
🔍() cwctl.py:630 - append(1 : 0)
🔍() cwctl.py:630 - Return ~return~list
🔍() cwctl.py:630 -
⚠️ cwctl.py:630 - Assignment to ~locals~.forkcmd
🔍() cwctl.py:632 - join(1 : return)
⚠️ cwctl.py:632 - Assignment to ~locals~.forkcmd
🔍() cwctl.py:634 - ~python~tuple(0 : return)
🔍() cwctl.py:634 - system(0)
```

#### cwctl.py:627-633

```
if not ASK.confirm('%s instance %r ?' % (self.name, appid)):
    continue
StopInstanceCommand(self.logger).stop_instance(appid)
forkcmd = [w for w in sys.argv if not w in args]
forkcmd[1] = 'start'
forkcmd = ''.join(forkcmd)
for appid in reversed(args):
```

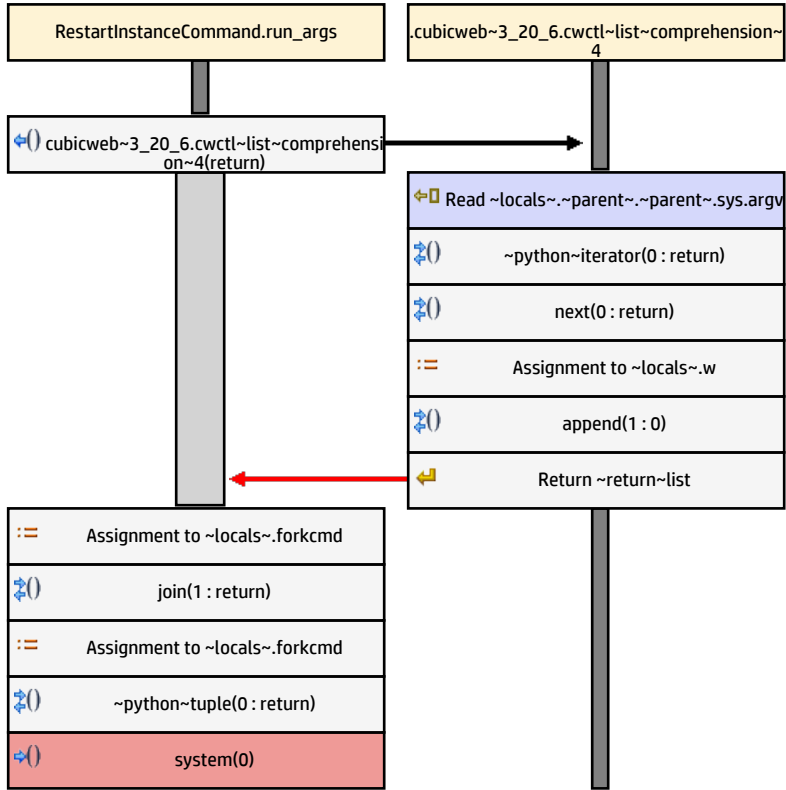
#### cwctl.py:629-635

```
StopInstanceCommand(self.logger).stop_instance(appid)
forkcmd = [w for w in sys.argv if not w in args]
forkcmd[1] = 'start'
forkcmd = ''.join(forkcmd)
for appid in reversed(args):
    status = system('%s %s' % (forkcmd, appid))
    if status:
```

#### cwctl.py:631-637

```
forkcmd[1] = 'start'
forkcmd = ''.join(forkcmd)
for appid in reversed(args):
    status = system('%s %s' % (forkcmd, appid))
    if status:
        sys.exit(status)
```

# Analysis Trace Diagram



## Analysis Trace

```
↳ cwctl.py:812 - Read ~locals~.~parent~.sys.argv
↳() cwctl.py:812 - __getitem__(0 : return)
↳() cwctl.py:812 - ~python~tuple(0 : return)
:= cwctl.py:812 - Assignment to ~locals~.forkcmd
↳() cwctl.py:813 - system(0)
```

## Source

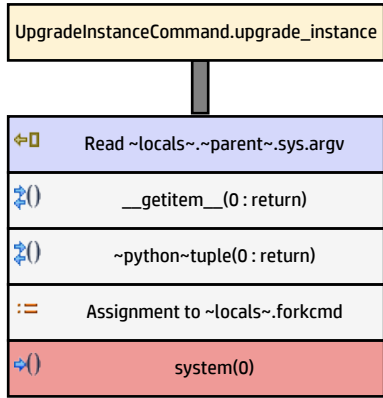
cwctl.py:809-815

```
if instance_running and not (CWDEV or self.config.nostartstop):
    # restart instance through fork to get a proper environment, avoid
    # uicfg pb (and probably gettext catalogs, to check...)
    forkcmd = '%s start %s' % (sys.argv[0], appid)
    status = system(forkcmd)
    if status:
        print '%s exited with status %s' % (forkcmd, status)
```

cwctl.py:810-816

```
# restart instance through fork to get a proper environment, avoid
# uicfg pb (and probably gettext catalogs, to check...)
forkcmd = '%s start %s' % (sys.argv[0], appid)
status = system(forkcmd)
if status:
    print '%s exited with status %s' % (forkcmd, status)
print
```

## Analysis Trace Diagram





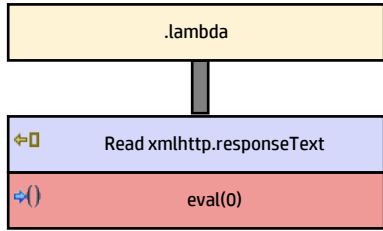
Analysis Trace

- 📄 cubicweb.timeline-bundle.js:4339 - Read
- ➔() cubicweb.timeline-bundle.js:4339 - eval(0)

Source

```
web/data/cubicweb.timeline-bundle.js:4336-4342
};
var fDone = function(xmlhttp) {
  try {
    f(eval('(' + xmlhttp.responseText + ')'), url);
  } finally {
    tl.hideLoadingMessage();
  }
}
```

## Analysis Trace Diagram



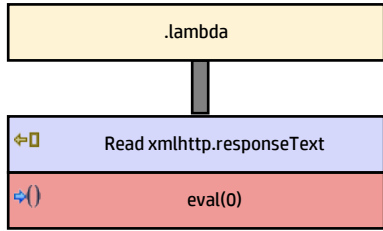
Analysis Trace

- 📄 cubicweb.timeline-bundle.js:4176 - Read
- ➔() cubicweb.timeline-bundle.js:4176 - eval(0)

Source

```
web/data/cubicweb.timeline-bundle.js:4173-4179
    alert("Failed to load json data from " + url + "\n" + statusText);
  };
  var fDone = function(xmlhttp) {
    f(eval('(' + xmlhttp.responseText + ')'), url);
  };
  SimileAjax.XmlHttpRequest.get(url, fError, fDone);
};
```

## Analysis Trace Diagram



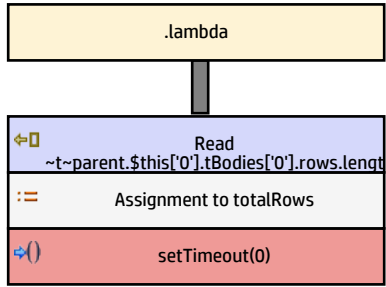
### Analysis Trace

- jquery.tablesorter.js:717 - Read
- jquery.tablesorter.js:717 - Assignment to totalRows
- jquery.tablesorter.js:767 - setTimeout(0)

### Source

```
web/data/jquery.tablesorter.js:714-720
$headers.click(
function (e) {
var totalRows = ($this[0].tBodies[0] && $this[0].tBodies[0].rows.length) || 0;
if (!this.sortDisabled && totalRows > 0) {
// Only call sortStart if sorting is
// enabled.
}
}
);
setTimeout(function () {
// set css for headers
setHeadersCss($this[0], $headers, config.sortList, sortCSS);
appendToTable(
```

## Analysis Trace Diagram



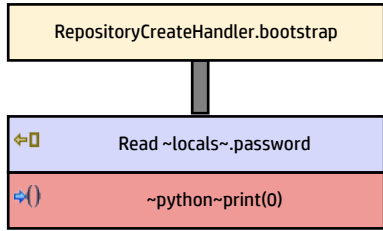
### Analysis Trace

- serverctl.py:188 - Read ~\locals~\password
- serverctl.py:188 - ~python~print(0)

### Source

```
server/serverctl.py:185-191
if automatic:
    # XXX modify a copy
    password = generate_password()
    print '-> set administrator account to admin / %s' % password
    USER_OPTIONS[1][1]['default'] = password
    sconfig = Configuration(options=USER_OPTIONS)
else:
```

## Analysis Trace Diagram





# Static File Listing

The static file listing displays all files scanned by the SCA scanner.

Filename	Size (bytes)
/cubicweb-3.20.6/__init__.py	8592
/cubicweb-3.20.6/__pkginfo__.py	5343
/cubicweb-3.20.6/_exceptions.py	7025
/cubicweb-3.20.6/_gcdebug.py	3679
/cubicweb-3.20.6/appobject.py	6442
/cubicweb-3.20.6/bin/cubicweb-ctl	86
/cubicweb-3.20.6/bin/cubicweb-ctl.bat	480
/cubicweb-3.20.6/COPYING	18326
/cubicweb-3.20.6/COPYING.LESSER	27037
/cubicweb-3.20.6/crypto.py	1641
/cubicweb-3.20.6/cwconfig.py	49597
/cubicweb-3.20.6/cwctl.py	44456
/cubicweb-3.20.6/cwvreg.py	33074
/cubicweb-3.20.6/dataimport.py	46368
/cubicweb-3.20.6/dbapi.py	32505
/cubicweb-3.20.6/devtools/__init__.py	36079
/cubicweb-3.20.6/devtools/cwtwill.py	3959
/cubicweb-3.20.6/devtools/data/cwmock.js	277
/cubicweb-3.20.6/devtools/data/qunit.css	3069
/cubicweb-3.20.6/devtools/data/qunit.js	30112
/cubicweb-3.20.6/devtools/data/xvfb-run.sh	5813
/cubicweb-3.20.6/devtools/dataimport.py	999
/cubicweb-3.20.6/devtools/devctl.py	35474
/cubicweb-3.20.6/devtools/fake.py	7088
/cubicweb-3.20.6/devtools/fill.py	24133
/cubicweb-3.20.6/devtools/htmlparser.py	11696
/cubicweb-3.20.6/devtools/httpptest.py	6800
/cubicweb-3.20.6/devtools/instrument.py	9031
/cubicweb-3.20.6/devtools/qunit.py	11622
/cubicweb-3.20.6/devtools/realdbtest.py	2530
/cubicweb-3.20.6/devtools/reptest.py	13813
/cubicweb-3.20.6/devtools/stresstester.py	7083
/cubicweb-3.20.6/devtools/test/data/bootstrap_cubes	8
/cubicweb-3.20.6/devtools/test/data/cubes/i18ntestcube/__pkginfo__.py	491

/cubicweb-3.20.6/devtools/test/data/cubes/i18ntestcube/schema.py	1839
/cubicweb-3.20.6/devtools/test/data/cubes/i18ntestcube/views.py	2373
/cubicweb-3.20.6/devtools/test/data/firstnames.txt	12910
/cubicweb-3.20.6/devtools/test/data/js_examples/dep_1.js	8
/cubicweb-3.20.6/devtools/test/data/js_examples/deps_2.js	11
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/cubicweb-3.20.6/web/views/sessions.py	4728
/cubicweb-3.20.6/web/views/sparql.py	5602
/cubicweb-3.20.6/web/views/startup.py	7563
/cubicweb-3.20.6/web/views/staticcontrollers.py	10176

/cubicweb-3.20.6/web/views/tableview.py	54895
/cubicweb-3.20.6/web/views/tabs.py	9510
/cubicweb-3.20.6/web/views/timeline.py	5180
/cubicweb-3.20.6/web/views/timetable.py	9107
/cubicweb-3.20.6/web/views/treeview.py	12679
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/cubicweb-3.20.6/web/wdoc/search_sample_queries_fr.rst	127
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/cubicweb-3.20.6/web/wdoc/standard_usage_fr.rst	582








/cubicweb-3.20.6/web/wdoc/toc.xml	1762
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/cubicweb-3.20.6/web/wdoc/userprefs_en.rst	496
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/cubicweb-3.20.6/web/webconfig.py	19237
/cubicweb-3.20.6/web/webctl.py	5381
/cubicweb-3.20.6/wsgi/__init__.py	2184
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/cubicweb-3.20.6/wsgi/request.py	6470
/cubicweb-3.20.6/wsgi/server.py	1692
/cubicweb-3.20.6/wsgi/test/unittest_wsgi.py	3924
/cubicweb-3.20.6/wsgi/tnd.py	1706
/cubicweb-3.20.6/wsgi/wz.py	1723
/cubicweb-3.20.6/xy.py	1610
/cubicweb-3.20.6/zmqclient.py	2310

# Appendix - Descriptions of Key Terminology

## Security Rating

The Fortify 5-star assessment rating provides information on the likelihood and impact of defects present within an application. A perfect rating within this system would be 5 complete stars indicating that no high impact vulnerabilities were uncovered.

Rating	
	Fortify awards one star to projects that undergo a Fortify security review, which analyzes a project for a variety of software security vulnerabilities.
	Fortify awards two stars to projects that undergo a Fortify security review that identifies no high likelihood / high impact issues. Vulnerabilities that are trivial to exploit and have a high business or technical impact should never exist in business-critical software.
	Fortify awards three stars to projects that undergo a Fortify security review that identifies no low likelihood / high impact issues and meets the requirements needed to receive two stars. Vulnerabilities that have a high impact, even if they are non-trivial to exploit, should never exist in business critical software.
	Fortify awards four stars to projects that undergo a Fortify security review that identifies no high likelihood / low impact issues and meets the requirements for three stars. Vulnerabilities that have a low impact, but are easy to exploit, should be considered carefully as they may pose a greater threat if an attacker exploits many of them as part of a concerted effort or leverages a low impact vulnerability as a stepping stone to mount a high-impact attack.
	Fortify awards five stars to projects that undergo a Fortify security review that identifies no issues.

## Likelihood and Impact

### Likelihood

Likelihood is the probability that a vulnerability will be accurately identified and successfully exploited.

### Impact

Impact is the potential damage an attacker could do to assets by successfully exploiting a vulnerability. This damage can be in the form of, but not limited to, financial loss, compliance violation, loss of brand reputation, and negative publicity.

## Fortify Priority Order

### Critical

Critical-priority issues have high impact and high likelihood. Critical-priority issues are easy to detect and exploit and result in large asset damage. These issues represent the highest security risk to the application. As such, they should be remediated immediately.

SQL Injection is an example of a critical issue.

### High

High-priority issues have high impact and low likelihood. High-priority issues are often difficult to detect and exploit, but can result in large asset damage.

These issues represent a high security risk to the application. High priority issues should be remediated in the next scheduled patch release.

## Medium

Medium-priority issues have low impact and high likelihood. Medium-priority issues are easy to detect and exploit, but typically result in small asset damage.

These issues represent a moderate security risk to the application. Medium-priority issues should be remediated in the next scheduled

## Low

Low-priority issues have low impact and low likelihood. Low-priority issues can be difficult to detect and exploit and typically result in small asset damage.

These issues represent a minor security risk to the application. Low priority issues should be remediated as time allows.

## Issue Status

### New

New issues are ones that have been identified for the first time in the most recent analysis of the application.

### Existing

Existing issues are issues that have been found in a previous analysis of the application and are still present in the latest analysis.

### Reopened

Reopened issues have been discovered in a previous analysis of the application but were not present in subsequent analyses. These issues are now present again in the most recent analysis of the application.

## Fortify Remediation Effort

### Major Remediation

Major remediation effort issues must often be addressed at multiple locations to fix the root problem.

### Minor Remediation

Minor remediation effort issues can typically be addressed at the location of the root problem.