

Security Plugin

Bacula Systems Documentation

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1 Overview

1.1 Features Summary

The **Bacula Enterprise Security** plugin provides a framework that can be used to check for vulnerabilities using the Bacula File Daemon on your servers. The security checks are executed once a day during any Backup Job. Information about any vulnerabilities found is printed in the Job report and a potential error message can be logged in the Job log. A *Security Object* will be inserted in the catalog for further analysis.

2 Security Hooks

Security hooks are installed in /opt/bacula/etc/bcheck_sys.d and can be executed separately.

2.1 Basic

Linux

000-bacula-basic

The *basic* check will analyse the Bacula Director configuration to check the password policy. It also controls the different permission checks on various Bacula files under /opt/bacula.

Windows

001-WindowsUpdate.ps1

The WindowsUpdate check will analyse the Windows Security updates and report the uninstalled ones with relevant level of importance.

3 Installation

3.1 Packages

Packages of the **Security** plugin are available for supported platforms. Please contact Bacula Systems Support team to get them.

Download the **Security** plugin package to your server where a Bacula File Daemon is installed and then install using the package manager

Debian/Ubuntu

```
dpkg -i bacula-enterprise-security-plugin*.deb
```

The package manager will ensure that your **Bacula Enterprise** version is compatible with the **Security** plugin.

Rhat/ Centos

```
rpm -ivh bacula-enterprise-security-plugin*.rpm
```

The package manager will ensure that your **Bacula Enterprise** version is compatible with the **Security** plugin.

Windows

The **Bacula Enterprise Security** plugin is selectable as a component of the **File Daemon** windows installer.

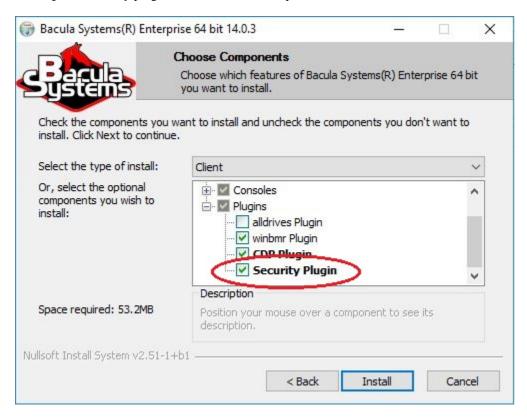


Fig. 1: The Security plugin in the File Daemon windows installer

4 Configuration

4.1 File Daemon Configuration

On the File Daemon host server, the **Plugin Directory** directive of the **File Daemon** resource in /opt/bacula/etc/bacula-fd.conf has to point to where the security-fd.so plugin is installed. The standard directory for Bacula plugins is /opt/bacula/plugins

```
FileDaemon {
   Name = bacula-fd
   Plugin Directory = /opt/bacula/plugins
   Plugin Options = "security: interval=2days"
   ...
}
```

The Plugin Options directive can be used to configure options of the Security plugin.

Table 1: Security plugin parameters

Option	Default	Description
interval	24h	The interval parameter specifies the time between two security checks.

5 Advanced

5.1 Forcing a New Check

It is possible to force a new check by deleting the file /opt/bacula/working/security.ts

5.2 Hook Protocol Definition

Security hooks can be written in any language. Some environment variables are passed to all hooks.

Table 2: Environnement variables

Option		Default	Description
BACULA_WORKINGDIR	BAC-	/opt/bacula/working	Bacula Working directory Bacula Configu-
ULA_SYSCONFDIR	BAC-	/opt/bacula/etc	ration directory Bacula Binary directory
ULA_BINDIR		/opt/bacula/bin	

The output provided by the hook is a JSON object with the following information:

Table 3: JSON fields

Option	Description		
source (String) Name of the hook version (String) Version of the hook program error (Int) different from zero to			
raise an error events (Array) list of different events			

Each events have the following information

Table 4: JSON Events fields

Option		Description
level	mes-	(char) Status of the test (f: fatal, T: ok, W: warning) (String) Error to be displayed. (contains simple
sage		characters)