



# Setting Up ClamSAP on SUSE Linux Enterprise Server

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Publication Date: April 19, 2017

## Contents

- 1 Installing ClamSAP 2
- 2 Creating a Virus Scanner Group in SAP NetWeaver 2
- 3 Setting Up the ClamSAP Library in SAP NetWeaver 3
- 4 Engaging ClamSAP 4

## 1 Installing ClamSAP

1. On the application host, install the packages for ClamAV and ClamSAP. To do so, use the command:

```
tux > sudo zypper install clamav clamsap
```

2. Verify the installation with `zypper search`:

```
tux > zypper search clam
S | Name      | Summary                                | Type
---+-----+-----+-----
i | clamav     | Antivirus Toolkit                     | package
  | clamav     | Antivirus Toolkit                     | srcpackage
i | clamsap    | Virus Scan Adapter (VSA) for ClamAV  | package
  | clamsap    | Virus Scan Adapter (VSA) for ClamAV  | srcpackage
```

You can also check whether the necessary libraries are in place:

```
tux > ll /usr/lib64/libclamsap*
lrwxrwxrwx 1 root root    19 [...] /usr/lib64/libclamsap.so -> libclamsap.so.0.9.8
lrwxrwxrwx 1 root root    19 [...] /usr/lib64/libclamsap.so.0 -> libclamsap.so.0.9.8
-rwxr-xr-x 1 root root 68536 [...] /usr/lib64/libclamsap.so.0.9.8
```

3. Start the service `clamd`:

```
tux > sudo systemctl start clamd
```

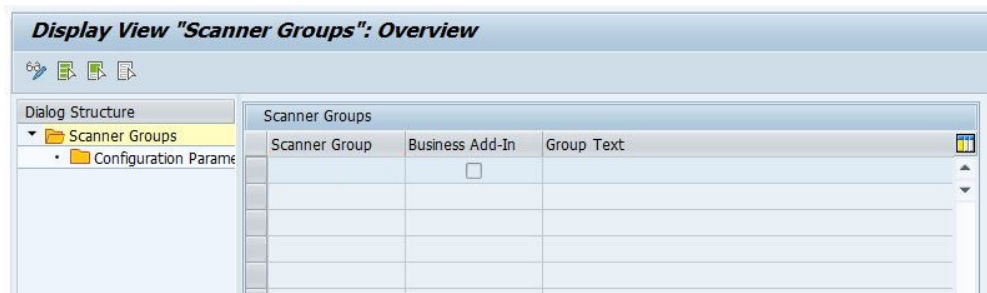
4. Check the status of the service `clamd` with:

```
tux > systemctl status clamd
● clamd.service - ClamAV Antivirus Daemon
Loaded: loaded (/usr/lib/systemd/system/clamd.service; enabled; vendor preset: disabled)
Active: active (running) since Tue 2017-04-11 10:33:03 UTC; 24h ago
[...]
```

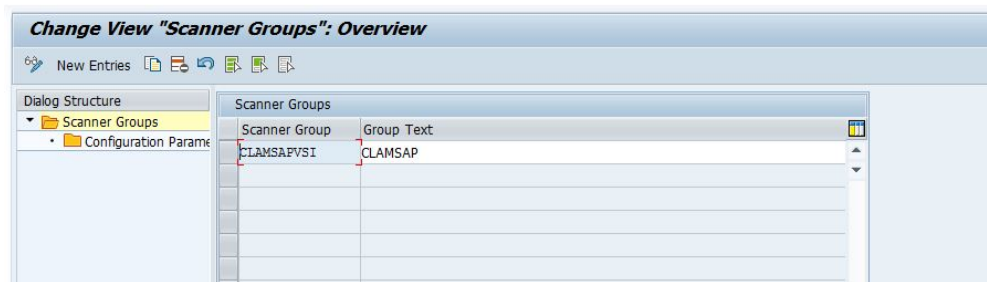
## 2 Creating a Virus Scanner Group in SAP NetWeaver

1. Log in to the SAP SAP NetWeaver installation through the GUI. Do not log in as a DDIC or SAP\* user, because the virus scanner has to be configured cross-client.

2. Create a Virus Scanner Group using the transaction *VSCANGROUP*.



3. To switch from view mode to change mode, click the button *Change View* (🔧).  
Confirm the message *This table is cross-client* by clicking the check mark. The table is now editable.
4. Select the first empty row. In the input box *Scanner Group*, specify CLAMSAPVSI. Under *Group Text*, specify CLAMSAP.  
Make sure that *Business Add-in* is not checked.



5. To save the form, click the button *Save* (💾).

### 3 Setting Up the ClamSAP Library in SAP NetWeaver

1. In the SAP SAP NetWeaver GUI, call the transaction *VSCAN*.
2. To switch from view mode to change mode, click the button *Change View* (🔧).  
Confirm the message *This table is cross-client* by clicking the check mark. The table is now editable.
3. Click *New entries*.

4. Fill in the form accordingly:

- **Provider Type:** Adapter (Virus Scan Adapter)
- **Provider Name:** VSA\_<HOSTNAME> (for example: VSA\_SAPSERVER)
- **Scanner Group:** The name of the scanner group that you set up in *Section 2, "Creating a Virus Scanner Group in SAP NetWeaver"* (for example: CLAMSAPVSI)
- **Server:** HOSTNAME\_SID\_INSTANCE\_NUMBER (for example: SAPSERVER\_P04\_00)
- **Adapter Path:** libclamsap.so

**New Entries: Details of Added Entries**

Provider Type: ADAPTER (Virus Scan Adapter)

Provider Name: VSA\_<HOSTNAME>

Status: Active (Application Server)


Scanner Group: ☒ **Display**

Server: <hostname>\_<SID>\_<instance number>

Reinit. Interv.:  Hours **Load**

Adapter Path: libclamsap.so

**Start** **Stop**

5. To save the form, click the button .

## 4 Engaging ClamSAP

To run ClamSAP, go to the transaction *VSCAN*. Then click *Start*.

### Change View "Virus Scan Provider Definition": Details

New Entries

Provider Type: ADAPTER (Virus Scan Adapter)
   
 Provider Name: VSA\_D105
   
 Status: ■

Start
 Stop

#### Virus Scan Provider Definition

Scanner Group: CLAMVSI Display
   
 Status: Active (Application Server)
   
 Server: d105\_S4S\_00
   
 Trace Level: Errors Only
   
 Reinit. Interv.:  Hours      Last Initialization: 06.04.2017 14:11:31 Load
   
 Adapter Path: libclamsap.so
   
 Configuration:

FIGURE 1: CHANGE VIEW "VIRUS SCAN PROVIDER DEFINITION"

Afterwards, a summary will be displayed, including details of the ClamSAP and ClamAV (shown in *Figure 2, "Summary of ClamSAP Data"*).

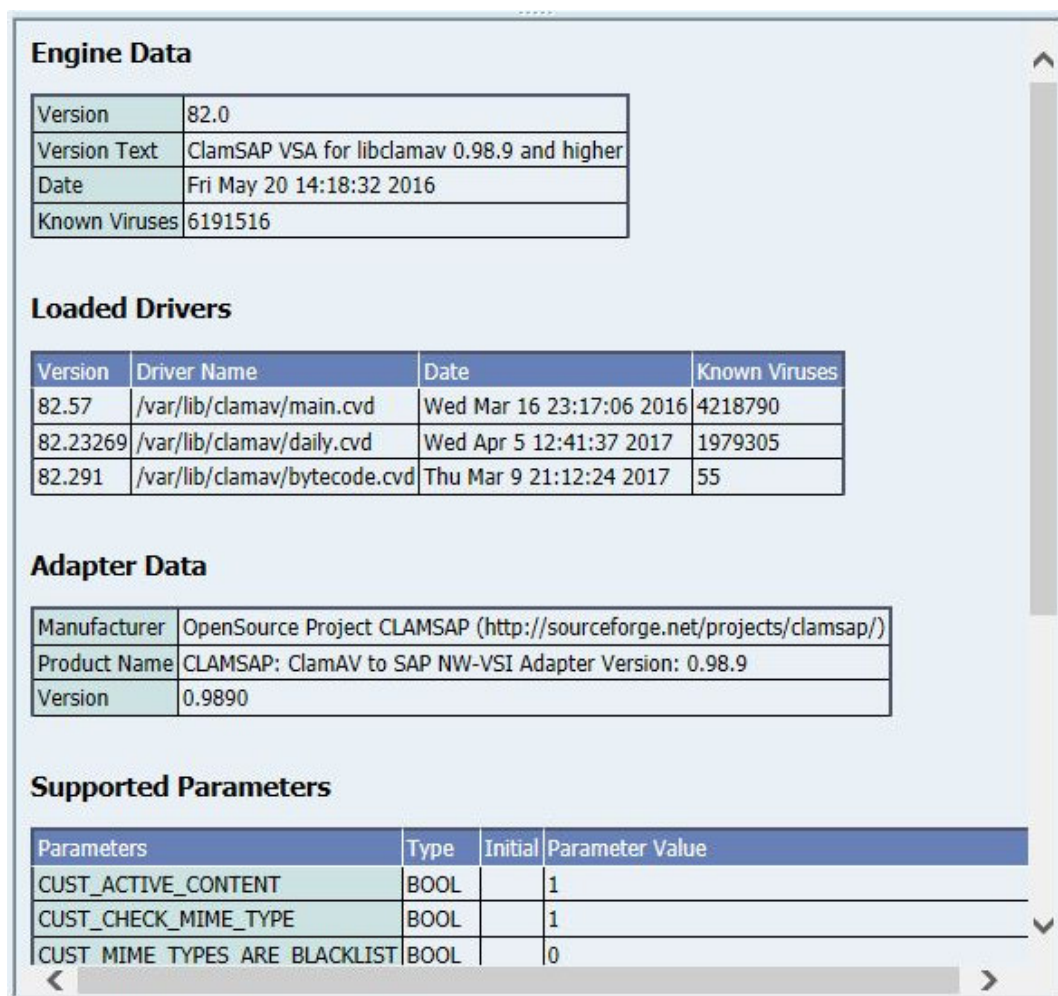


FIGURE 2: SUMMARY OF CLAMSAP DATA