

Backup and restore commands

Context

To prevent data-loss after a crash of one or several servers used in your Shinken architecture, we advise to use the `shinken-backup` and `shinken-restore` commands.

These two commands allow to save and restore a part or all of the Shinken configuration on a Shinken server.

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Backup command

Utilization

The basic command to use to perform a complete backup of Shinken Enterprise data is the following:

```
shinken-backup
```

A lot of different parameters can alter what is put in the backup archive:

Option	Short option	Description	Daemon containing data to backup
<code>--help</code>	<code>-h</code>	Displays the command's help	All
<code>--sla</code>	<code>-s</code>	Saves SLA data	Broker
<code>--user</code>	<code>-u</code>	Saves data of users from the Visualization UI (custom lists, dashboards and hives, ...)	Broker
<code>--configuration</code>	<code>-c</code>	Saves configuration data (hosts, checks, templates, users, ...)	Synchronizer
<code>--metrology</code>	<code>-m</code>	Saves metrology data (metrics)	Broker
<code>--log</code>	<code>-l</code>	Saves logs	All
<code>--output-directory [dir]</code>	<code>-od [dir]</code>	Allows to choose where to put the data	
<code>--output-name [name]</code>	<code>-on [name]</code>	Allows to choose a name for the backup archive	



Because the `shinken-backup` command saves the content of `/etc/shinken` et `/etc/shinken-user` folders, it can be used when executed from these folders.

Also, check that you use this backup tool on the correct server. For example, trying to save SLA data on a Poller server will not save any actual SLA data, because SLA data are stored on the Broker server.

Saving data in encrypted configurations

When performing a backup of configuration data containing encrypted data, the `shinken-backup` command displays a warning if the encryption key has not been exported.

The backup is still performed, but you need to export and save your encryption key using the `shinken-protected-fields-keyfile-export` before any other manipulation related to encryption.

```
$ shinken-backup -c -od . -on crypted-backup2
Saving Configuration
For security reasons, you are responsible for saving and storing the Protected
Please run the following command to export the key so you can save the result :
shinken-protected-fields-keyfile-export
Failure to do so this will result in the loss of your database when you restore
Configuration save size: 15M
Done : your backup directory is /root/2018-04-27_08-45-35_crypted-backup2/2018-04-27_08-45-35_crypted-backup2
```

The following message is displayed if you did not save the encryption key before performing a configuration backup:

```
The protected fields key from this backup looks
like it has never been saved
```

If the key export is done after the backup, you can ignore this backup and restore the key using the `shinken-protected-fields-keyfile-restore` command.

Examples

Here is an example of a complete backup of a server hosting all of the Shinken Enterprise daemons:

```
root@vm-shinken: ~
$ shinken-backup
Saving Sla
  Sla save size: 360M
Saving User
  User save size: 72K
Saving Configuration
  Configuration save size: 8.0M
Saving Metrology
  Metrology save size: 3.9M
Saving Logs
  Logs save size: 2.8M
Done : your backup directory is /root/shinken-backups/2017-11-13__17-50-33
```

Exemple de la sauvegarde de la configuration sur un serveur hébergeant le démon Synchronizer :

This example backs up the configuration of a Shinken server hosting the Synchronizer daemon:

```
root@vm-shinken: ~
$ shinken-backup --configuration
Saving Configuration
  Configuration save size: 3.1M
Done : your backup directory is /root/shinken-backups/2017-11-10__17-46-11
```

Restore command


Utilization

```
shinken-restore DIRECTORY-TO-RESTORE
```

The DIRECTORY-TO-RESTORE folder should contain the backup folder, such as :

- configuration/
- metrology/
- user/
- sla/
- context/

The different options available on the restore command are:

Option	Short option	Description	Daemon containing data to backup
--help	-h	Displays the command's help	All
--sla	-s	Restores SLA data	Broker
--user	-u	Restores user data in the visualization UI (lists, hives, dashboards, favorites, ...)	Broker
--restore-only-user [USER]		Restores the UI Visualization data (lists, hives, dashboards, favorites...) only for the specified user (to use with the -u option)  This option does not require restarting Shinken	Broker
--configuration	-c	Restores configuration data	Synchronizer
--with-key-backup [HASH]		For a backup containing encrypted data, also restore the encryption key specified (<i>[HASH]</i>). This hash to pass as parameter is the output of the shinken-protected-fields-keyfile-export command Pour un backup contenant des données protégées, restaure également la clé de chiffrement spécifiée. Il s'agit du résultat de la commande shinken-protected-fields-keyfile-export .	Synchronizer
--metrology	-m	Restores metrology data (metrics).	Broker
--log	-l	Restores logs	All

Restoration of a encrypted configuration database

The shinken-restore command will restore the backup data, but will ask to also restore the encryption key to be able to read the data.

- **The Synchronizer daemon will refuse to start until the encryption key is restored**

The shinken-restore also has a --with-key-backup that allows to perform the data restoration and restore the encryption key as the same time. You just have to restart the Synchronizer daemon after that:

```
/etc/init.d/shinken-synchronizer start
```

If you lost your key, the [shinken-protected-fields-keyfile-rescue-from-backup](#) documentation describes the procedure to an encryption to read your data with the help of your Shinken support.

```

$ shinken-restore -c 2018-04-26_15-18-50__crypted-backup
Stopping Shinken before restoring
Restoring from 02.05.00-006_BUILD07.fr to 02.05.00-006_BUILD07.fr
-Restoring Configuration      The name from the key in the backup is : install_key

    Make sure you do have the export of that key. After this restore is finished, use the command :

    shinken-protected-fields-keyfile-restore HASH

    to restore your key.
    You can also use the option --with-key-backup HASH with the shinken-restore command
    to restore the key along with the backup

    Note that the Synchronizer will not start until you have restored your key

    If you don't have the right key, you can use the following command and follow its instructions:

    /var/lib/shinken/libexec/tools/shinken-protected-fields-keyfile-rescue-from-backup /root/2018-04-26_15-18-50__crypted-bac

fix_double_link           : skip (unnecessary)
fix_double_sync_keys      : skip (unnecessary)
fix_default_item_se_uuid  : skip (unnecessary)
fix_remove_shinken_core   : skip (unnecessary)
fix_remove_deprecated_check : skip (unnecessary)
fix_remove_undefined_aix_templates : skip (unnecessary)
fix_flapping_thresholds   : skip (unnecessary)
fix_business_impact       : skip (unnecessary)
fix_host_name_inheritance : skip (unnecessary)
fix_bp_rule_args          : skip (unnecessary)
fix_uuid_in_sla_info      : skip (unnecessary)
fix_synchronizer_install_missing_addons : skip (unnecessary)
fix_missing_skeletons     : skip (unnecessary)
fix_missing_sources       : skip (unnecessary)
fix_update_protected_fields_parameters : skip (unnecessary)
fix_all_move_overload_files : skip (unnecessary)
remove_hostgroups_in_working_area : skip (unnecessary)

```

Examples

Here is an example of a complete restore on a server hosting all of the Shinken Enterprise daemons from the ~/shinken-backups folder:

```

root@vm-shinken: ~/shinken-backups

$ shinken-restore 2017-11-09__16-16-53

Stopping Shinken before restoring
Restoring from 02.04.01.fr to 02.04.02.fr
-Restoring Sla             DONE
-Restoring User            DONE
-Restoring Configuration   DONE
-Restoring Metrology       DONE
-Restoring Logs            DONE

Sanatizing your restored data
fix_double_link           : skip (unnecessary)
fix_double_sync_keys      : skip (unnecessary)
fix_default_item_se_uuid  : skip (unnecessary)
fix_remove_shinken_core   : skip (unnecessary)
fix_remove_deprecated_check : skip (unnecessary)
fix_remove_undefined_aix_templates : skip (unnecessary)
fix_flapping_thresholds   : skip (unnecessary)
fix_business_impact       : skip (unnecessary)

Done. You can restart your shinken with /etc/init.d/shinken start

```



After restoring your data, sanitization scripts are launched to make sure the restored data is compatible with the Shinken Enterprise version installed on your system.

Once a restoration complete, you can restart the Shinken daemons:

```
/etc/init.d/shinken start
```

This example restore Shinken Enterprise configuration data, on a server hosting the Synchronizer/Arbiter daemons.

```
root@vm-shinken: ~/shinken-backups
$ shinken-restore --configuration 2017-11-08__10-58-54

Stopping Shinken before restoring
Restoring from 02.04.01-release to 02.04.02-release
-Restoring Configuration  DONE

Sanatizing your restored data
  fix_double_link           :  executed [OK]
  fix_double_sync_keys     :  skip (unnecessary)
  fix_default_item_se_uuid :  skip (unnecessary)
  fix_remove_shinken_core  :  skip (unnecessary)
  fix_remove_deprecated_check : skip (unnecessary)
  fix_remove_undefined_aix_templates : skip (unnecessary)
  fix_flapping_thresholds  :  skip (unnecessary)
  fix_business_impact      :  skip (unnecessary)

Done. You can restart your shinken with /etc/init.d/shinken start
```

This last example restore the Visualization UI data of the Shinken user "testuser" (hives, lists, dashboards, favorites...), launched on the server hosting the Broker daemon:

```
root@vm-shinken: ~/shinken-backups
$ shinken-restore -u --restore-only-user testuser 2017-12-13__11-44-49/
Restoring from 02.04.01-release to 02.04.03-release
-Restoring User
  Restoring only the user testuser

Restore of the user testuser data is OK
```