Back Ups and Saves

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Introduction

This document will lays out the solution the Security Team is proposing to back up the systems.

Backuping the systems is important to guarantee the disponibility and intgrity of our systems and applications.

Content

Description

To back up this infrastructure the Security Teams suggests to use incremental saves of all importants systems on remote VPS.

To realise and automatise those process the Security Teams suggests to use the software called backupninja. And the package called rdiff-backup, that operate on

incremental saves.

The software would be installed on the infrastructure's servers and connect to the remote saves locations with an user id and password. A SSH should be used if possible to improve the security of the procedure.

Once connected to the remote VM rdiff-backup do incrementals saves of all selected directories and files in the chosen directory in the remote VM user' home directory.

Backupninja itself handles the ssh connection and the timing between saves as well as deleting saves that are too old.

The Security Team also suggests using sqldump package to to backups saves of our db directly in .sql.gz files.

To send the files back to the original VMs if the need arise the Security Team recommends to use the scp protocole with a "backup" user on the original VMs.

For resiliences purposes, all VMs backups should be saved on separate on their own remote VPS.

Furthermore, the Security Team also recommends to have an additionnal VPS used for saving the database in addition to the VPS used to save the whole VMs hosting the database, database included. This backup process could uses a script executed periodically by crontab.

Tools suggested and required budget

- Backupninja (free) : Back ups and remote saves handling software the Security Teams suggests to use

- rdiff-backup (free) : incremental save package for backupninja the Security Teams suggests to use

- sqldump (free) : baackupninja's package to backup sql databases as .sql.gz file the Security Teams suggests to use

- scp protocol (free) : protocol the Security Teams suggests to use to transfer backup files back to the original system.

- crontab (free) : scripting automation software the Security Teams suggests to use to save up the database and others importants systems on a remote VPS, as a redondancy to backupninja.

- Remote VPS : A remote server, used solely to remotly store the backups.

  - Budgets for VPS depend on the solution used to host our servers, the budget estimation must be left to the Cloud Team to evaluate.

- One (1) day worth of man hours (800 €)