

Veeam Linux Backup Agent Script with E-mail Notifications

Original inspiration for the script came from a post on the [Veeam forums](#) by **davide.depaoli** with some minor modifications from me mainly the use of **[sendemail](#)** to send out the notifications.

- Setup a new backup job with the initial Veeam Agent setup wizard ensuring that you do NOT schedule the job (**Figure 1**).

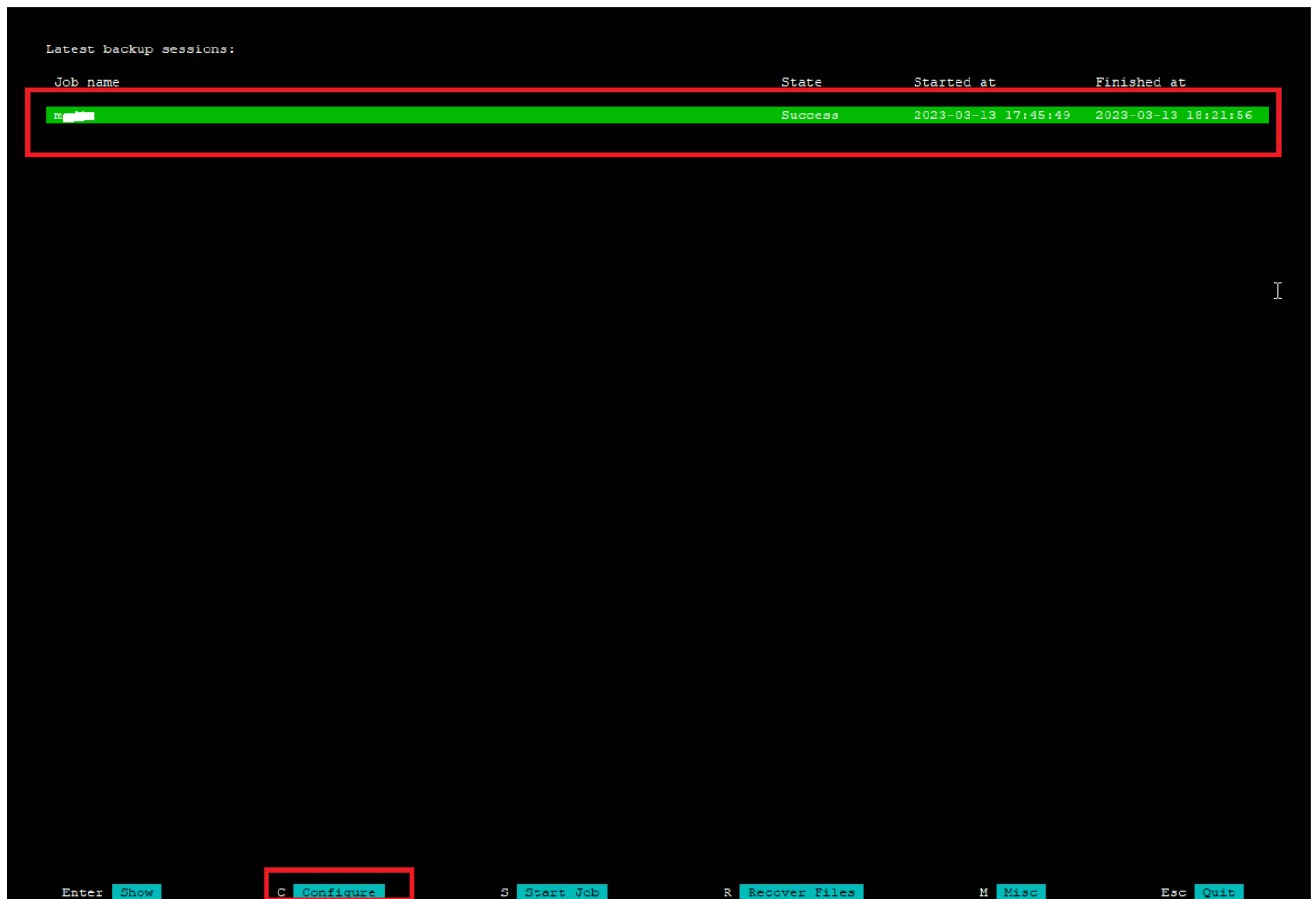
Figure 1

- Alternatively, you can configure an existing job by issuing the command below:

```
veeamconfig ui
```

- Select the job you wish to configure and click on **C** to configure (**Figure 2**):

Figure 2



- List the jobs in Veeam by issuing the following command:

```
veeamconfig job list
```

If you get the error: **This operation is not permitted if management mode is [Job]** then change the Veeam to standalone mode by using the following command:

```
veeamconfig mode reset
```

- Locate the job name from the list and make a note of it:

Name	ID	Type	Repository
Daily	{18c2f95b-6fa3-4cc2-acca-ace90b58dcb4}	All System	Repository_1

- Create a script in your system with the contents below, ensuring you replace the **JOBNAME**, **SCRIPT_DIR**, **smtpusername**, **smtppassword**, **smtpcls**, **smtphost**, **smtpport**, **emailfrom** and **emailto** variable values with values from your environment.

Ensure the **SCRIPT_DIR** path you choose exists and the script is placed in it:

```
JOBNAME=veeam_backup_job_name
SCRIPT_DIR=/etc/veeam/scripts
LOG_DIR=/var/log/veeam/Backup/$JOBNAME
JOB_INFO=`veeamconfig job info --name $JOBNAME`

#Sendemail Parameters
smtpusername=smtp_username
smtppassword='smtp_password'
smtptls=yes/no/auto
smtp host=smtp.domain.tld
smtpport=587
emailfrom=someone@domain.tld
emailto=someone@domain.tld

#Install sendmail and related packages if necessary
apt install -y rar sendmail libio-socket-ssl-perl libnet-ssleay-perl perl

#start backup job
veeamconfig job start --name "$JOBNAME" 1> $SCRIPT_DIR/$JOBNAME.tmp 2> $SCRIPT_DIR/$JOBNAME.err

SESSION_ID=`grep ID $SCRIPT_DIR/$JOBNAME.tmp | awk '{print $3}' | sed 's/\[//' | sed 's/\]//' | sed 's/\./.'/`
SESSION_LOG_DIR=`grep log $SCRIPT_DIR/$JOBNAME.tmp | awk '{print $4}' | sed 's/\[//' | sed 's/\]//' | sed 's/\./.'/`
LOGFILE=$SESSION_LOG_DIR/job.log
SESSION_INFO=`veeamconfig session info --id $SESSION_ID | grep -v UUID`

# check if another job is running
if [ -s $JOBNAME.err ]
then
    ERROR_MSG=`grep Error $SCRIPT_DIR/$JOBNAME.err`
    echo "$ERROR_MSG" | /usr/bin/sendmail -f $emailfrom -t $emailto -u "Veam Agent Job $JOBNAME Error" -m
    "Veam Agent Job $JOBNAME Error" -s $smtp host:$smtpport -o username=$smtpusername -o
    password=$smtp password -o tls=$smtptls
fi

#check if job is running
```

```

until [ -z `pgrep veeamjobman` ]
do
    echo "job is running" > /dev/null
done

#check and set the exit status of the job
STATUS=`veeamconfig session info --id $SESSION_ID | grep State | awk '{print $2}'`

if [ "$STATUS" == "Warning" ];
then
    WARN_MSG=`veeamconfig session log --id $SESSION_ID | grep warn | awk '{print $6,$7,$8,$9}'`
    echo -e "Job $JOBNAME Successful with following $STATUS:\n\n$WARN_MSG\n\nJOB INFO:\n$JOB_INFO" |
/usr/bin/sendemail -f $emailfrom -t $emailto -u "Veam Agent Job $JOBNAME $STATUS" -m "Veam Agent Job
$JOBNAME $STATUS" -a $LOGFILE -s $smtphost:$smtpport -o username=$smtpusername -o
password=$smtppassword -o tls=$smtppts
fi

if [ "$STATUS" == "Failed" ];
then
    echo -e "Job $JOBNAME $STATUS. See attached logfile for error details.\n\nJOB INFO:\n$JOB_INFO" |
/usr/bin/sendemail -f $emailfrom -t $emailto -u "Veam Agent Job $JOBNAME $STATUS" -m "Veam Agent Job
$JOBNAME $STATUS" -a $LOGFILE -s $smtphost:$smtpport -o username=$smtpusername -o
password=$smtppassword -o tls=$smtppts
fi

if [ "$STATUS" == "Success" ];
then
    echo -e "Job $JOBNAME $STATUS.\n\nJOB INFO:\n$JOB_INFO" | /usr/bin/sendemail -f $emailfrom -t $emailto -u
"Veam Agent Job $JOBNAME $STATUS" -m "Veam Agent Job $JOBNAME $STATUS" -s $smtphost:$smtpport -o
username=$smtpusername -o password=$smtppassword -o tls=$smtppts
fi

rm -f $SCRIPT_DIR/$JOBNAME.tmp $SCRIPT_DIR/$JOBNAME.err

```

- Ensure you make the script executable:

```
chmod +x /etc/veeam/scripts/veeam_backup.sh
```

- Test by running the script manually and if the job and the e-mail notification is successful, schedule the script with crontab and set the days/times as per your requirements:

```
# m h dom mon dow  command
```

```
30 00 * * * /etc/veeam/scripts/veeam_backup.sh
```

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