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#!/bin/bash
#
#
#/usr/bin/clear
echo
if [ $# == 0 ]
then
    echo "Usage: $0 <slurm_node_name or IP address>"
    echo "Exiting..."
    echo
    exit 1
fi

if [ "$USER" != "root" ]
then
    echo "This script needs to be executed as root."
    echo "Exiting..."
    exit 1
fi

echo "Capturing SLURM logs and relevant information..."
echo

if ping -c1 $1 > /dev/null;
then
    date1=$(date "+%Y.%m.%d-%H.%M.%S")
    logs_dir=SLURM_logs_`date1`
    mkdir $logs_dir
    touch $logs_dir/README_FIRST.txt
    touch $logs_dir/journalctl.txt
    touch $logs_dir/scontrol_show_config.txt

    #Capture output of 'sinfo -V'
    echo

    "=====
    =====" >> $logs_dir/README_FIRST.txt
    echo >> $logs_dir/README_FIRST.txt
    echo "1) SLURM Version" >> $logs_dir/README_FIRST.txt
    ssh $1 sinfo -V >> $logs_dir/README_FIRST.txt
    echo >> $logs_dir/README_FIRST.txt
    echo "2) Output of 'journalctl -u slurmctld' can be found in the
'journalctl.txt' file" >> $logs_dir/README_FIRST.txt
    echo >> $logs_dir/README_FIRST.txt

    #Capture output of "journalctl -u slurmctld"
    echo "Output of journalctl -u slurmctld" >>
$logs_dir/journalctl.txt
    echo >> $logs_dir/journalctl.txt
    ssh $1 journalctl -u slurmctld >> $logs_dir/journalctl.txt

    #Capture output of "scontrol ping"
    echo "3) Output of 'scontrol ping'" >> $logs_dir/README_FIRST.txt
    echo >> $logs_dir/README_FIRST.txt

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ssh $1 scontrol ping >> $logs_dir/README_FIRST.txt
echo >> $logs_dir/README_FIRST.txt

#Capture output of "scontrol show config"
echo "4) Output of 'scontrol show config' can be found in
'scontrol_show_config.txt' file" >> $logs_dir/README_FIRST.txt
ssh $1 scontrol show config >> $logs_dir/scontrol_show_config.txt
echo >> $logs_dir/README_FIRST.txt

#Fetch the following files:
# /etc/slurm/slurm.conf
# /var/log/messages
# /var/log/slurmctld.log
# /var/log/slurm/slurmdbd.log
scp $1:/etc/slurm/slurm.conf $logs_dir
scp $1:/var/log/messages $logs_dir
scp $1:/var/log/slurm/slurmctld.log $logs_dir
scp $1:/var/log/slurmctld.log $logs_dir
scp $1:/var/log/slurm/slurmdbd.log $logs_dir
echo
echo "Compressing and creating a .tgz file..."
echo
echo
"=====
===== " >> $logs_dir/README_FIRST.txt

#Tar and compress the directory
tar zcvf $logs_dir.tgz $logs_dir
rm -rf $logs_dir
echo
echo Upload "$logs_dir.tgz" to the case.
echo

else
echo SLURM node $1 is down or does not exist.
echo Exiting...
exit 1

fi

#End

```