Install Raven Core Node on HiveOS (or Debian[1] variants) as a System Service

Reference:
https://github.com/RavenProject/Ravencoin/blob/master/doc/init.md

Steps:

1) Create a system user and group named raven
   a. adduser raven --system --group
2) Create /usr/bin/raven.d then download, place the files & make symbolic links
   a. mkdir -p /usr/bin/raven.d
   b. cd /tmp
   c. wget https://github.com/RavenProject/Ravencoin/releases/download/v4.6.1/raven-4.6.1-7864c39c2-x86_64-linux-gnu.tar.gz
      (The above command must be one contiguous line)
   d. tar -xf raven-4.6.1-7864c39c2-x86_64-linux-gnu.tar.gz
   e. cd raven-4.6.1-7864c39c2
   f. cp -r . /usr/bin/raven.d
   g. cd ..
   h. ln -s /usr/bin/raven.d/bin/raven-cli /usr/bin/raven-cli
   i. ln -s /usr/bin/raven.d/bin/ravend /usr/bin/ravend
3) Create a base raven.conf file with a random rpc password to support command line interaction
   a. echo -n 'rpcpassword=' > raven.conf
   b. openssl rand -base64 41 >> raven.conf
   c. This file needs to be placed in /root and /home/user
      i. mkdir -p /root/.raven
      ii. cp raven.conf /root/.raven
      iii. mkdir -p /home/user/.raven
      iv. cp raven.conf /home/user/.raven
      v. chown -R user:root /home/user/.raven
   d. An additional parameter for /etc/raven/raven.conf is needed
      i. mkdir /etc/raven
      ii. echo 'maxconnections=75' >> raven.conf
          (reduced from the 125 default to help control resource constraints)
      iii. cp raven.conf /etc/raven/raven.conf
      iv. chown raven:raven /etc/raven/raven.conf
4) Install the man pages
   a. Make the necessary directory
      i. mkdir -p /usr/local/share/man/man1
   b. Link the .1 man files in the new directory
      i. ln -s /usr/bin/raven.d/share/man/man1/raven-cli.1 /usr/local/share/man/man1/raven-cli.1
      ii. ln -s /usr/bin/raven.d/share/man/man1/ravend.1 /usr/local/share/man/man1/ravend.1
5) Create the pid structure
   a. mkdir -p /var/lib/ravend
   b. touch /var/lib/ravend/ravend.pid

c. chown -R raven:raven /var/lib/ravend

6) Prepare the service file
   a. cd /etc/systemd/system
   b. wget https://raw.githubusercontent.com/RavenProject/Ravencoin/master/contrib/init/ravend.service
      (The above command must be one contiguous line)
   c. systemctl daemon-reload
   d. systemctl enable ravend.service
   e. systemctl status ravend.service
   f. systemctl stop ravend.service
   g. systemctl start ravend.service
   h. Use **top** to see it running in the list. [Note: <ctrl> c or press q to exit top]
   i. Validate the listening port:
      i. netstat -tulpa | grep 8767
      ii. Notice it is bound to 0.0.0.0:8767
   j. Additional tests once the service is running
      i. raven-cli getblockchaininfo | grep "headers"
         1. It will take a little time but will show the current in-sync header
      ii. raven-cli getblockchaininfo | grep "blocks"
         1. In general blocks will not begin downloading until all headers are in-sync.
      iii. raven-cli getpeerinfo | grep "inbound"
         1. Until the daemon is in complete sync with the network, the results will be false.
         2. Once everything is in-sync a value of true should appear.

7) To Do:
   a. Firewall publish TCP Port 8767 to allow inbound connections.