

# Login Script

Below are the instructions to the Devcloud login script. The picture below shows what the current script appears as. When you type the command “login”, the following output is shown. It separates the available nodes into 130-136, and 137-139, as well as stating what the nodes have.

```
07/11/2019 15:08.21 /home/mobaxterm ssh colfax-intel
stty: standard input: Inappropriate ioctl for device
X11 forwarding request failed on channel 0
#####
#
# Welcome to the Intel DevCloud for Data-Centric Workloads!
#
# 1) See https://devcloud.intel.com/datacenter/ for instructions and rules.
#    Your invitation email contains the authentication URL.
#
# 2) If you have any questions regarding the cloud usage, post them at
#    https://software.intel.com/en-us/forums/intel-devcloud
#
# Intel DevCloud Team
#
#####
#
# Note: Cryptocurrency mining on the Intel DevCloud is forbidden.
#       Mining will lead to immediate termination of your account.
#
#####
Last login: Thu Nov  7 15:07:08 2019 from 10.9.0.249
u30329@login-1:~$ login

                        Showing available nodes below:
-----
Nodes with no attached hardware:
130
131
132
133
134
135
136

-----
Nodes 137-139 Arria 10 Cards... Node 189 Stratix 10
137
138
189
-----

What node would you like to use? Insert #130-139, or 189
█
```

Figure 1: Login Script Running

The script is located inside the .bashrc, and looks as follows:

```

login()
{
    red='\e[1;31m'
    blu='\e[1;34m'
    end='\e[0m'
    echo
    echo "                                Showing available nodes below:                                "
    echo -----
    printf "%s\n" "${blu}Nodes with no attached hardware:${end}" "
    pbsnodes |grep -B 1 "state = free"| grep -T '13[0-9]' | grep -o '...$'
    echo -----
    printf "%s\n" "${blu}Nodes 137-139 Arria 10 Cards... Node 189 Stratix 10${end}" "
    pbsnodes -s v-qsvr-fpga | grep -B 1 "state = free"| grep -B 1 '13[0-9]' | grep -o '...$'
    pbsnodes -s v-qsvr-fpga | grep -B 1 "state = free"| grep -B 1 '189' | grep -o '...$'
    echo -----
    echo
    echo What node would you like to use? Insert \#130-139, or 189
    read node
    echo
    echo -----
    printf "%s\n" "${blu}Please copy and paste the following text in a new mobaxterm terminal: ${end}" "
    echo
    printf "%s\n" "${blu}ssh -L 4002:s001-n"$node":22 colfax-intel${end}" "
    echo
    echo -----
    echo
    if [ "$node" -le 136 ]; then
        qsub -I -l nodes=s001-n"$node":ppn=2
    else
        qsub -q batch@v-qsvr-fpga -I -l nodes=s001-n"$node":ppn=2
    fi
}

```

Figure 2: Login Script inside .bashrc

Below is the script, which you can copy and paste into the .bashrc.

Before pasting though, you must run the command “:set paste” and then paste. If not it will auto-indent and change the formatting of the script.

```
login()
{
    red='\e[1;31m'
    blu='\e[1;34m'
    end='\e[0m'
    echo
    echo "                Showing available nodes below:                "
    echo -----
    printf "%s\n" "${blu}Nodes with no attached hardware:${end} "
    pbsnodes |grep -B 1 "state = free"| grep -T '13[0-9]' | grep -o '...$'
    echo
    echo -----
    printf "%s\n" "${blu}Nodes 137-139 Arria 10 Cards... Node 189 Stratix 10${end} "
    pbsnodes -s v-qsvr-fpga | grep -B 1 "state = free"| grep -B 1 '13[0-9]' | grep -o '...$'
    pbsnodes -s v-qsvr-fpga | grep -B 1 "state = free"| grep -B 1 '189' | grep -o '...$'

    echo -----
    echo
    echo What node would you like to use? Insert \#130-139, or 189
    read node
    echo
    echo -----
    printf "%s\n" "${blu}Please copy and paste the following text in a new mobaxterm terminal: ${end} "
    echo
    printf "%s\n" "${blu}ssh -L 4002:s001-n"$node":22 colfax-intel${end} "
    echo
    echo -----
    echo
    if [ "$node" -le 136 ]; then
        qsub -l -l nodes=s001-n"$node":ppn=2
    else
        qsub -q batch@v-qsvr-fpga -l -l nodes=s001-n"$node":ppn=2
    fi
}
```

Once you select a node, it will also output the command required to set up the x2go window. Just copy and paste into a new mobaxterm terminal.

```
What node would you like to use? Insert #130-139, or 189
137

-----
Please copy and paste the following text in a new mobaxterm terminal:
ssh -L 4002:s001-n137:22 colfax-intel
-----

qsub: waiting for job 1676.v-qsvr-fpga.aidevcloud to start
qsub: job 1676.v-qsvr-fpga.aidevcloud ready

#####
#      Date:          Thu Nov  7 15:18:00 PST 2019
#      Job ID:         1676.v-qsvr-fpga.aidevcloud
#      User:           u30329
# Resources:          neednodes=s001-n137:ppn=2,nodes=s001-n137:ppn=2,walltime=06:00:00
#####

u30329@s001-n137:~$
```

Figure 3: x2go Command