1. Let’s say there are 6 linux hosts in its QA environment. Hostnames are listed below with the example of java process. There could be multiple instances of java processes on each host. Please write a script to find out when the java processes on each host was last restarted and if it’s jmx port enabled find out the port number.

qaserver1 qaserver2 qaserver3 qaserver4 qaserver5 qaserver6

dmadmin 14739 1 0 Feb25 ? 00:52:38 /Documentum/jdk/bin/java -

Djava.util.logging.config.file=/documentum/apache-tomcat-

7.0.26//conf/logging.properties

-Xms2048m -Xmx4096m

-Djava.security.auth.login.config=/documentum/apache-tomcat-

7.0.26/conf/login.config - Dcatalina.ext.dirs=/documentum/apache-

tomcat-

7.0.26/shared/lib:/documentum/apache-tomcat7.0.26/common/lib

-Djava.rmi.server.hostname=localhost -Dcom.sun.management.jmxremote -

Dcom.sun.management.jmxremote.port=5569

-Dcom.sun.management.jmxremote.authenticate=false -

Dcom.sun.management.jmxremote.ssl=false -

Djava.util.logging.manager=org.apache.juli.ClassLoaderLogManager -

Djava.security.auth.login.config=/documentum/apache-tomcat-

7.0.26/conf/login.config -

Djava.endorsed.dirs=/documentum/apache-tomcat-7.0.26/endorsed

2. Say, you need to find out kernel version on those 6 servers and launch parameters of running kernels, write a script to fetch the kernel version and it’s launch parameters, and prints that  
information on the terminal of every logged-in user on each of the servers.

3. Below is an example of data in JSON format,  
write a script to fetch the user’s friend’s name those “id” equals “2”, and has ‘laborum’ tag.

[  
 {  
 **"\_id"**: **"5bc44d3edf2b8798ce3c95bd"**,  
 **"tags"**: [  
 **"proident"**,  
 **"aute"**,  
 **"in"**,  
 **"laborum"** ],  
 **"friends"**: [  
 {  
 **"id"**: 0,  
 **"name"**: **"Alyce Wall"** },  
 {  
 **"name"**: **"Eloise Cervantes"** },  
 {  
 **"id"**: 2,  
 **"name"**: **"Turner Morton"** }  
 ],  
 **"greeting"**: **"Hello, stranger! You have 8 unread messages."**,  
 **"favoriteFruit"**: **"strawberry"** },  
 {  
 **"id"**: 1,  
 **"\_id"**: **"f4ee69a5-55a9-4cfd-ac4e-5eb525ec6d5a"**,  
 **"tags"**: [  
 **"radn1"**,  
 **"auto2"**,  
 **"out"**,  
 **"exploit"** ],  
 **"friends"**: [  
 {  
 **"id"**: 0,  
 **"name"**: **"Mu Xaong"** },  
 {  
 **"id"**: 1,  
 **"name"**: **"Irgem Stiv"** },  
 {  
 **"id"**: 2,  
 **"name"**: **"In Kirisk"** }  
 ],  
 **"greeting"**: **"I'm back."**,  
 **"favoriteFruit"**: **"apple"** }  
]