

Homework: Linux. Basic monitoring. Processes

1 Start any process (ex. Ping)

```
[testvmadmin@testvm ~]$ ping 0.0.0.0  
PING 0.0.0.0 (127.0.0.1) 56(84) bytes of data.
```

2. Move the previously launched process to the background

Ctrl+Z

3. Check that the process is in the list of background processes

```
[testvmadmin@testvm ~]$ jobs  
[1]+  Stopped                  ping 0.0.0.0
```

4. Return the process to the foreground

```
[testvmadmin@testvm ~]$ fg  
ping 0.0.0.0  
64 bytes from 127.0.0.1: icmp_seq=2 ttl=64 time=0.076 ms
```

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5. What factors can be used to determine that our machine is virtual?

- kernel messages:

```
[testvmadmin@testvm ~]$ dmesg|grep Hyper  
[    0.000000] Hypervisor detected: KVM
```

- fields in DMI/SMBIOS memory range, in ex.

```
[testvmadmin@testvm ~]$ sudo dmidecode -s system-manufacturer  
innotek GmbH ← we are in VirtualBox now
```

or

```
[testvmadmin@testvm ~]$ sudo dmidecode | grep Product  
Product Name: VirtualBox  
Product Name: VirtualBox
```

facter, lshw, hostnamectl, etc.

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6. What factors can be used to identify problems with the read / write subsystem?

- I/O usage by processes vs throughput of I/O channels
- physical I/O delays
- physical I/O errors