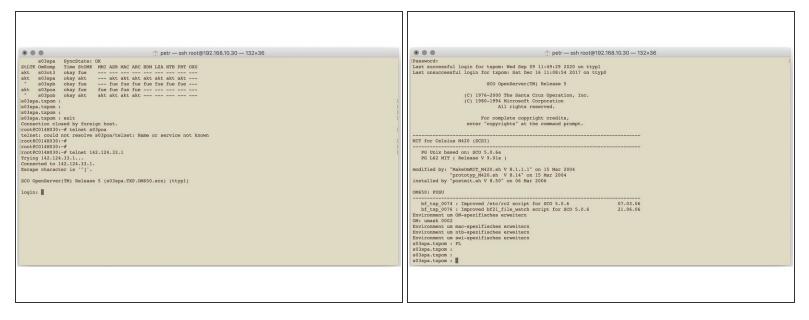


00 - OMLEX - Network Backup - Step-by-Step Guide

The guide is describing step by step backup procedure of OMLEX computer backup through Bohemia Market backup server.

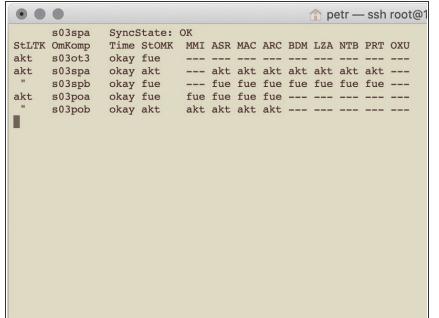
Written By: Petr Roupec

Step 1 — Login to OMLEX computer



Login to the TXP Computer

Step 2 — Evaluate TXP system status



 Evaluate status of TXP OM650 status prior shutdown of the computer. In case that power station is in operation make sure redundant computer is available

Step 3 — Stopping OM650

```
. . .
                                                                                                                                   🁚 petr — ssh root@192.168.10.3
. . .
                                                      🁚 petr — ssh root@192
                                                                                        s03spa
                                                                                                 SyncState: OK
      s03spa SyncState: OK
                                                                                 StLTK OmKomp
                                                                                                 Time StOMK MMI ASR MAC ARC BDM LZA NTB PRT OXU
StLTK OmKomp
                Time StOMK MMI ASR MAC ARC BDM LZA NTB PRT OXU
                                                                                                okay fue --- akt akt akt akt akt akt akt ---
okay fue --- fue fue fue fue fue fue ---
okay fue fue fue fue fue --- ---
okay fue akt akt akt akt akt ---
                                                                                       s03ot3
                                                                                 akt
      s03ot3
                 okay fue
akt
                                                                                       s03spa
                okay akt
                               --- akt akt akt akt akt akt ---
akt
    s03spa
                                                                                        s03spb
      s03spb
                okay fue --- fue fue fue fue fue fue --- okay fue fue fue fue fue --- --- ---
                                                                                     s03poa
akt
     s03poa
                                                                                        s03pob
                okay akt akt akt akt --- --- ---
                                                                                 [s03spa.txpom :
      s03pob
s03spa.txpom:
                                                                                 [s03spa.txpom:
s03spa.txpom:
                                                                                 s03spa.txpom : Om.Sta
                                                                                 [s03spa.txpom : Om.Stop
s03spa.txpom : Om.Sta
                                                                                  Om. Stop: OM stopping procedure is activated.
s03spa.txpom : Om.Stop
                                                                                  OMstop: Stopping OM processes ......
Om. Stop: OM stopping procedure is activated.
                                                                                  OMstop: Waiting for end of OM processes ...
OMstop: Stopping OM processes
                                                                                 OMstop: Waiting for end of OM processes ...
OMstop: Waiting for end of OM processes ...
                                                                                 OMstop: Waiting for end of OM processes ...
OMstop: Waiting for end of OM processes ...
                                                                                 OMstop: Waiting for end of OM processes ... OMstop: Waiting for end of OM processes ...
                                                                                  OMstop: Waiting for end of OM processes ...
                                                                                  OMstop: Waiting for end of OM processes ...
                                                                                  OMstop: Waiting for end of OM processes
                                                                                  OMstop: Waiting for end of OM processes ...
                                                                                  OMstop: OM processes stopped.
                                                                                  Om.Stop: OM stopping procedure is terminated.
                                                                                  s03spa.txpom :
```

- Stop OM650 system by the command
 - Om.Stop

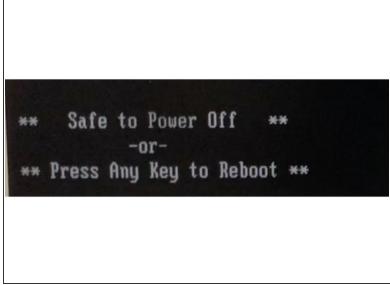
This document was generated on 2022-07-19 08:49:34 PM (MST).

Step 4 — Shutdown computer

```
s03spa
                SyncState: OK
StLTK OmKomp
               Time StOMK MMI ASR MAC ARC BDM LZA NTB PRT OXU
      s03ot3
akt
               okay fue
                            --- akt akt akt akt akt akt ---
akt
      s03spa
               okay akt
      s03spb
             okay fue --- fue fue fue fue fue fue fue ---
okay fue fue fue fue --- --- ---
okay akt akt akt akt --- --- ---
      s03poa
      s03pob
s03spa.txpom:
s03spa.txpom:
s03spa.txpom : Om.Sta
[s03spa.txpom : Om.Stop
Om. Stop: OM stopping procedure is activated.
OMstop: Stopping OM processes ......
OMstop: Waiting for end of OM processes ...
OMstop: OM processes stopped.
Om.Stop: OM stopping procedure is terminated.
Password:
# init 0
```

- Login as a super user
 - su
- Shutdown computer
 - init 0

Step 5 — Switch OFF the computer





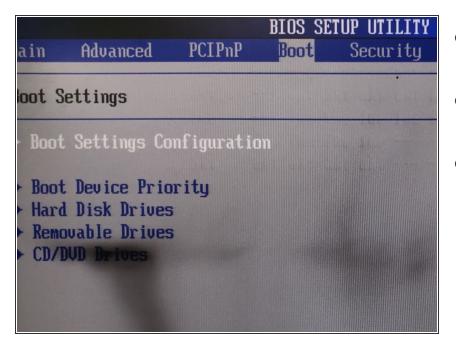
- When shutdown is completed message is shown.
- Switch OFF the computer and follow instructions on hardware connections

Step 6 — Enter OMLEX Computer BIOS



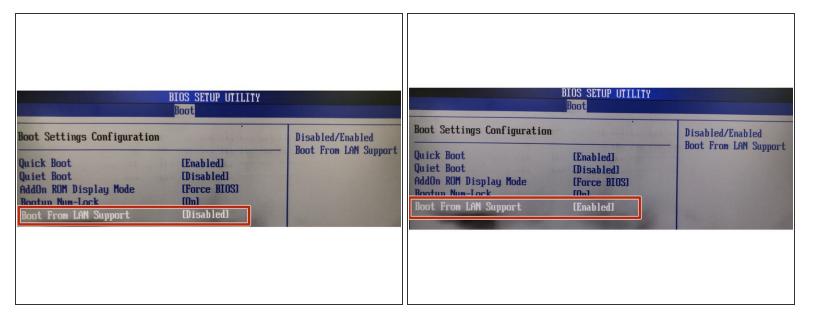
 Enter into BIOS by pressing DEL key right after computer start

Step 7 — Enter OMLEX Computer BIOS



- To enter BIOS pres DEL Key right after computer start
- By pressing left arrow go to the Boot Section
- Enter boot setting configuration

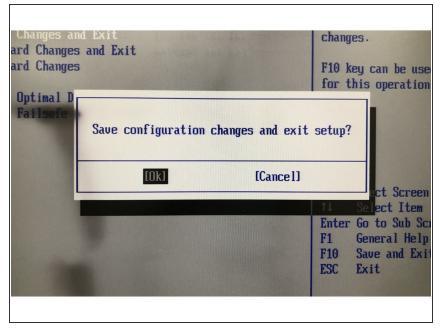
Step 8 — Enable LAN Booting



Scroll down and enable Boot from LAN

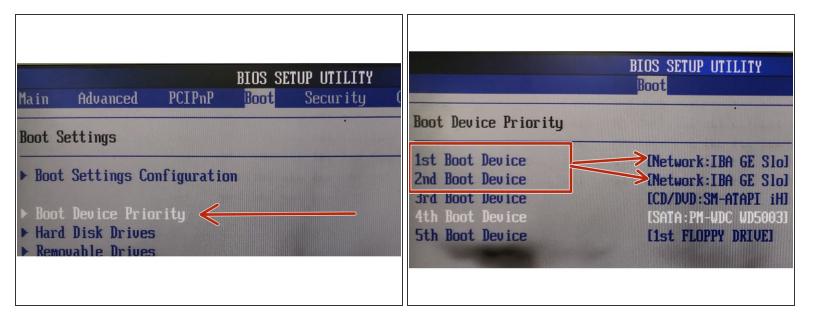
A Save Changes and Reboot computer is required prior changing boot priority devices

Step 9 — Reboot computer



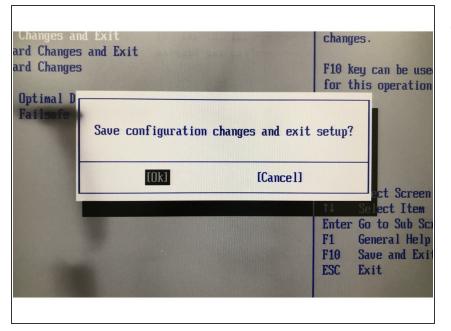
Save changes and leave BIOS

Step 10 — Enter into BIOS and Change Booting order



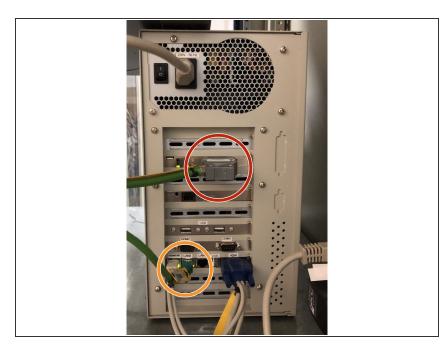
- To enter BIOS pres DEL Key right after computer start
- Change booting priority

Step 11



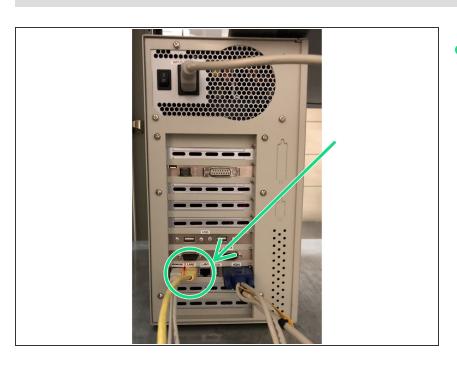
Save changes and leave BIOS

Step 12 — Disconnect plant bus and terminal bus



- Prior to the backup Terminal Bus to be disconnected from the computer
- Prior to the backup Plant Bus to be disconnected from the computer
- (i) Terminal bus is connected to LAN2
- i Plant Bus is connected to CP1613 card

Step 13 — Connected Bohemia Market Rescue & BAckup Server



Connect cable going to Bohemia
 Market Rescue & Backup Server to
 the LAN 2 port

Step 14 — Boot server request

```
tel(R) Boot Agent GE v1.3.31

pyright (C) 1997-2009, Intel Corporation

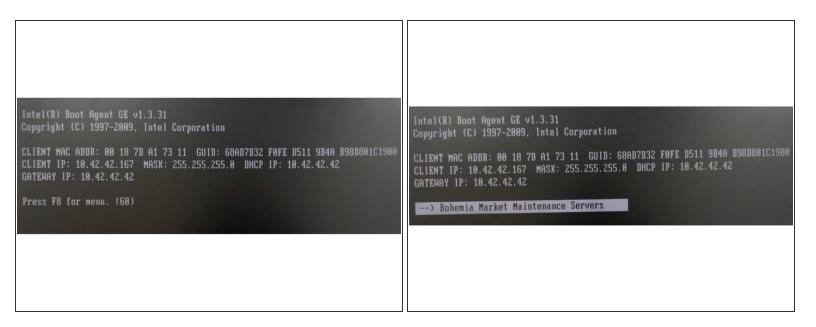
Intel(R) Boot Agent GE v1.3.31

Copyright (C) 1997-2009, Intel Corporation

CLIENT MAC ADDR: 00 18 7D A1 73 11 GUID: 60AD7032 F0FE D511 984A B90D601C1908 DHCP.
```

- After switching on OMLEX computer with LAN booting enabled it start every LAN card
- After a while DHCP requests are being sent to the network

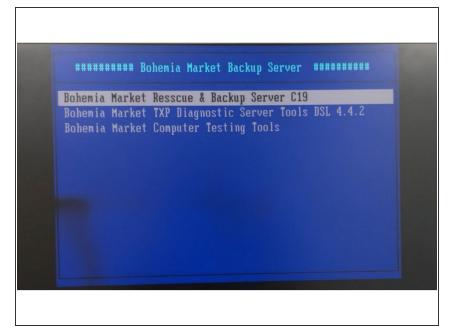
Step 15 — DHCP Request received



- After a while IP address will be provided by the DHCP server
- Press F8 to connect with Bohemia Market Maintenance Server

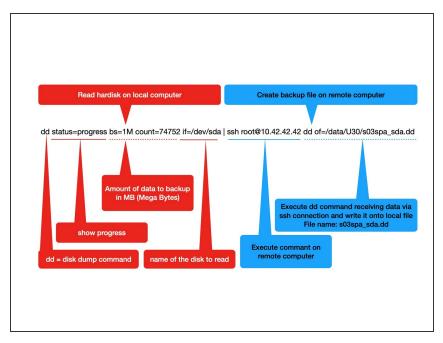
This document was generated on 2022-07-19 08:49:34 PM (MST).

Step 16 — Boot the server



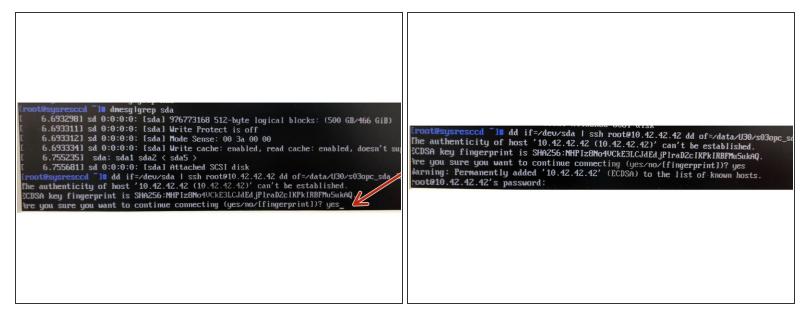
 For purposes of OMLEX backup chose the Bohemia Market Rescue and backup server

Step 17 — Perform Backup



- For clarity command is shown on several lines please type all on one lineBackup is made as set of command on command line
- dd status=progress if=/dev/sda | root@10.42.42.42 dd of=/data/U30/ s03spa_sda.dd
- Second disk backup command is; dd status=progress if=/dev/sdb | root@10.42.42.42 dd of=/data/U30/ s03spa_sdb.dd
- Server require password this is site specific and will be provided during commissioning

Step 18 — SSH Connection and password



- Once connected to BM Backup Server answer the question in regards of the certificates: YES
- After establishing connection you will be asked for Backup Server Password

Step 19 — Backup Completed



After a while backup will complete

Step 20 — Switch off computer



```
** Safe to Power Off **

-or-

** Press Any Key to Reboot **
```

- When shutdown is completed message is shown. Switch off the computer
- Connect cables and start the computer