NOTE

This documentation is outdated and has been moved to an updated version on https://linuxops.web.cern.ch/aims2/aims2legacyworkaround/. After https://cern.service-now.com/service-portal?id=outage&n=OTG0069753, legacy workaround does no longer exist but internal docs explain how to do it under exceptional circumstances.

Whatever you may find here is kept for historical purposes, but these docs are no longer relevant for many reasons after the service evolution and improvements.

Use this workaround ONLY for systems which cannot boot using standard configuration, as of Feb 2016 this concerns following types of network cards: Mellanox Connect X-2, Chelsio T520-LL-CR, QLogic cLOM8215

and qemu-kvm on RHEL6/SLC6 systems

Enable PXE workaround

Make sure your aims2 client version is at least 2.11.

Add affected system to AIMS2:

```bash
# aims2 addhost HOSTNAME
```

Enable PXE workaround:

```bash
# aims2 pxelgcyon HOSTNAME
```

Optional: Set PXE boot target:

```bash
# aims2 pxeon HOSTNAME TARGET
```

Wait until AIMS2 synchronizes configuration (PXE legacy synced: Y (optionally: PXE boot synced: Y), this takes ~1 minute.

```bash
# aims2 showhost HOSTNAME -all
```

<table>
<thead>
<tr>
<th>Hostname:</th>
<th>HOSTNAME</th>
</tr>
</thead>
<tbody>
<tr>
<td>Interface HWADDR:</td>
<td>XX-XX-XX-XX-XX-XX</td>
</tr>
<tr>
<td>PXE status:</td>
<td>OFF</td>
</tr>
<tr>
<td>PXE boot options:</td>
<td>none</td>
</tr>
<tr>
<td>PXE boot type:</td>
<td>BIOS</td>
</tr>
<tr>
<td>PXE boot target:</td>
<td>none</td>
</tr>
<tr>
<td>PXE noexpiry:</td>
<td>N</td>
</tr>
<tr>
<td>PXE boot synced:</td>
<td>N</td>
</tr>
<tr>
<td>PXE boot legacy:</td>
<td>Y</td>
</tr>
<tr>
<td>PXE legacy synced:</td>
<td><em>Y</em></td>
</tr>
</tbody>
</table>
Enable PXE workaround - alternative syntax

Requires aims2 client version 2.13 (at least).

```
# aims2 addhost --bios --lgcy --hostname HOSTNAME --name TARGET --kickstart=KSFILE [ --kopts=KSOPTS ]
```

Enable PXE workaround - ai-installhost

For systems installed using ai-installhost please add --mode bioslgcy flag to the command (this is temporary until ai-installhost will be able to autodetect affected hardware):

```
# ai-installhost --mode bioslgcy HOSTNAME.cern.ch ...
```

Disable PXE workaround

The PXE workaround stays active until one of the following commands is issued:

```
# aims2 pxelgcyoff HOSTNAME
# aims2 pxeon HOSTNAME TARGET uefi
# aims2 delhost HOSTNAME
# aims2 addhost HOSTNAME
```

Installing the system or using # aims2 pxefoff HOSTNAME does NOT disable the workaround.

RHEL6/SLC6: qemu-kvm

Instead of workaround described above qemu-kvm can be booted using ipxe boot cd (http://cern.ch/linux/scientific6/docs/ipxe.iso)

(this boot cd implements a PXE network boot stack independent of qemu-kvm network boot firmware)

RHEL6/SLC6: qemu-kvm / CERN NICE (Windows) installation

In addition to the workaround above, please start installation using Diane WinPE 5 menu entry, since the standard one crashes Windows on qemu-kvm at present.

From interactive network installation menu choose:

Expert Operating System Install Menu
then:

CERN (NICE) Windows Install Menu

and boot using:

Diane WinPE 5

JaroslawPolok - 2016-03-04