

HMC: HMC and LPAR management commands

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HMC: HMC and LPAR management commands

```
# Tested on HMC v.6 / v.7

# List of HMC commands, in case web based tool is not available, to
# manage LPARs and HMC itself

# HMC Management
# -----
-----

# Show HMC version

hscroot@hmcp590:~> lshmc -v
"version= Version: 6
  Release: 1.3
  HMC Build level 20080112.1
  MH01110: Security fixes for HMC 6.1.3 (05-22-2008)
  MH01127: Enable Upgrading to V7R3.4.0 (08-18-2008)
  MH01128: Disable HTTP trace
  MH01168: Duplicate LPAR ID's when using HACMP failover
(01-28-2009)
  MH01082: New DST updates and Code Update fix for E302F842 [...]
failures (01-12-2008)
  ", "base_version=V6.1.0
  "

# HMC reboot
```

```
hscroot@hmcp590:~> hmcshutdown -r -t0
```

```
# Change user's password
```

```
hscroot@hmcp590:~> chhmcusr -u hscroot -t passwd
```

```
Enter the new password:
```

```
Retype the new password:
```

```
# Show Available Filesystem Space
```

```
hscroot@hmcp590:~> monhmc -r disk -n 0
```

Filesystem	1K-blocks	Used	Available	Use%	Mounted on
/dev/sda2	16184388	6952260	8410004	46%	/
tmpfs	512464	0	512464	0%	/dev/shm
/dev/sda3	5929732	2928380	2700136	53%	/var
/dev/sda7	8088148	103196	7574092	2%	/dump
/dev/sda8	217844	16428	190172	8%	/extra
/dev/hdc	4472346	4472346	0	100%	
/media/cdrom					

```
# LPAR Management
```

```
# -----  
-----
```

```
# Overview of Managed Systems controlled by HMC
```

```
hscroot@hmcp590:~> lssyscfg -r sys -F name:serial_num:state
```

```
Server-9119-590-SN8305FBF:8305FBF:Operating
```

```
Server-9119-590-SN456XXFG:456XXFG:Operating
```

```
# Overview of LPARs on a Managed System (Show LPAR ID, name and
```

```
status)
```

```
hscroot@hmcp590:~> lssyscfg -r lpar -m <Server-9119-590-SN8305FBF> -F
```

```
lpar_id:name:state
```

```
 22:p590n22:Running
 21:p590n21:Running
 20:p590n20:Running
 19:p590n19:Running
 18:p590n18:Running
 17:p590n17:Running
 16:p590n16:Running
 15:p590n15:Running
 14:p590n14:Running
 13:p590n13:Running
 12:p590n12:Running
 11:p590n11:Not Activated
 10:p590n10:Running
  9:p590n09:Running
  8:p590n08:Running
  7:p590n07:Running
  6:p590n06:Running
  5:p590n05:Running
  4:p590n04:Running
  3:p590n03:Running
  2:p590v02:Running
  1:p590v01:Running
 24:p590n24:Running
 23:p590n23:Running
```

```
# Identify LPARs running on a given Managed System
```

```
hscroot@hmcp590:~> vtmenu
```

```
Retrieving name of managed system(s) . . .
```

```
-----  
Managed Systems:  
-----
```

- 1) Server-9119-590-SN8305FBF
- 2) Server-9119-590-SN456XXFG

Enter Number of Managed System. (q to quit): 2

Partitions On Managed System: Server-9119-590-SN456XXFG

- | | | |
|----|------------|---------|
| 1) | my_lpar_01 | Running |
| 2) | my_lpar_02 | Running |
| 3) | my_lpar_03 | Running |
| 4) | my_lpar_04 | Running |
| 5) | my_lpar_05 | Running |

Enter Number of Running Partition (q to quit): q

Show history of LED code status ("-n <NUM>" for the last NUM codes).

Current status in the first line.

```
hscroot@hmcp590:~> lsrefcode -m <Server-9119-590-SN8305FBF> -r lpar  
--filter "lpar_names=<p590n22>" -n 10 -F lpar_name:refcode
```

```
p590n22:  
p590n22:0c33  
p590n22:  
p590n22:0539  
p590n22:0538  
p590n22:0539  
p590n22:0538  
p590n22:0539  
p590n22:0538  
p590n22:0539
```

Show a list of all adapters physically plugged into a server and LPAR assignment

```
hscroot@hmcp590:~> lshwres -r io -m <Server-9119-590-SN8305FBB>
--rsubtype slot -F lpar_name:drc_name:description
p590v01:U5791.001.99B02WV-P1-T6:SCSI bus controller
p590n06:U5791.001.99B02WV-P1-C08:Fibre Channel Serial Bus
p590n05:U5791.001.99B02WV-P1-C09:PCI 1Gbps Ethernet UTP
p590n15:U5791.001.99B02WV-P1-C10:PCI 1Gbps Ethernet UTP
p590n03:U5791.001.99B02WV-P1-C01:Fibre Channel Serial Bus
p590n04:U5791.001.99B02WV-P1-C02:Fibre Channel Serial Bus
p590v01:U5791.001.99B02WV-P1-C03:PCI 1Gbps Ethernet UTP
p590n12:U5791.001.99B02WV-P1-C04:Fibre Channel Serial Bus
p590v01:U5791.001.99B02WV-P1-T5:SCSI bus controller
[...]
```

```
# Same, filtering by LPAR
```

```
hscroot@hmcp590:~> lshwres -r io -m <Server-9119-590-SN8305FBB>
--rsubtype slot -F lpar_name:drc_name:description --filter
"lpar_names=<p590n22>"
p590n22:U5791.001.99B069L-P1-C10:Fibre Channel Serial Bus
p590n22:U5791.001.99B069L-P2-C01:Fibre Channel Serial Bus
p590n22:U5791.001.99B0DV4-P2-C08:PCI 1Gbps Ethernet UTP
p590n22:U5791.001.99B0DV4-P2-C09:PCI 1Gbps Ethernet UTP
p590n22:U5791.001.99B0DV4-P2-C10:PCI 1Gbps Ethernet UTP
```

```
# Show status of DLPAR
```

```
hscroot@hmcp590:~> lspartition -dlpar
<#0> Partition:<19*9119-590*8305FBB, p590n19.fr.eu.airbus.corp,
152.9.117.19>
Active:<1>, OS:<AIX, 5.3, 5300-01-00-0000>, DCaps:<0x2f>,
CmdCaps:<0xb, 0xb>, PinnedMem:<256>
<#1> Partition:<17*9119-590*8305FBB, p590n17.fr.eu.airbus.corp,
44.55.102.17>
Active:<1>, OS:<AIX, 5.3, 5.3>, DCaps:<0x3f>, CmdCaps:<0xb,
0xb>, PinnedMem:<774>
<#2> Partition:<20*9119-590*8305FBB, p590n20.fr.eu.airbus.corp,
```

```
44.55.102.20>
    Active:<1>, OS:<AIX, 5.3, 5300-06-03-0732>, DCaps:<0x3f>,
CmdCaps:<0xb, 0xb>, PinnedMem:<813>
<#3> Partition:<22*9119-590*8305FBBF, p590n22.fr.eu.airbus.corp,
44.55.102.22>
    Active:<1>, OS:<AIX, 5.3, 5300-06-03-0732>, DCaps:<0x3f>,
CmdCaps:<0xb, 0xb>, PinnedMem:<345>
<#4> Partition:<18*9119-590*8305FBBF, p590n18.fr.eu.airbus.corp,
152.9.117.18>
    Active:<1>, OS:<AIX, 5.3, 5.3>, DCaps:<0x3f>, CmdCaps:<0xb,
0xb>, PinnedMem:<256>
<#5> Partition:<14*9119-590*8305FBBF, p590n14.fr-v.eu-v.airbus-v.corp,
152.9.117.14>
    Active:<1>, OS:<AIX, 5.3, 5300-09-02-0849>, DCaps:<0x3f>,
CmdCaps:<0xb, 0xb>, PinnedMem:<256>
<#6> Partition:<13*9119-590*8305FBBF, p590n13.fr-v.eu-v.airbus-v.corp,
152.9.117.13>
    Active:<1>, OS:<AIX, 5.3, 5.3>, DCaps:<0x3f>, CmdCaps:<0xb,
0xb>, PinnedMem:<824>
<#7> Partition:<7*9119-590*8305FBBF, p590n07.fr.eu.airbus.corp,
152.9.117.7>
    Active:<1>, OS:<AIX, 5.3, 5.3>, DCaps:<0x3f>, CmdCaps:<0xb,
0xb>, PinnedMem:<256>
<#8> Partition:<8*9119-590*8305FBBF, p590n08.fr.eu.airbus.corp,
152.9.117.8>
    Active:<0>, OS:<AIX, 5.3, 5.3>, DCaps:<0x0>, CmdCaps:<0x0,
0xb>, PinnedMem:<1102>
[...]
```

```
# Soft reset (halt) of a LPAR
```

```
hscroot@hmcp590:~> chsysstate -r lpar -m <Server-9119-590-SN8305FBBF>
-o shutdown -n <p590n22>
```

```
# Hard reset (halt) of a LPAR
```

```
hscroot@hmcp590:~> chsysstate -r lpar -m <Server-9119-590-SN8305FBF>  
-o shutdown -n <p590n22> --immed
```

```
# Soft reset (reboot) of a LPAR
```

```
hscroot@hmcp590:~> chsysstate -r lpar -m <Server-9119-590-SN8305FBF>  
-o shutdown -n <p590n22> --restart
```

```
# Hard reset (reboot) of a LPAR
```

```
hscroot@hmcp590:~> chsysstate -r lpar -m <Server-9119-590-SN8305FBF>  
-o shutdown -n <p590n22> --immed --restart
```

```
# Get LPAR Virtual Console
```

```
hscroot@hmcp590:~> mkvterm -m <Server-9119-590-SN8305FBF> -p  
<p590n22>
```

```
# To remove an active connection to the console that prevents us from  
connecting:
```

```
hscroot@hmcp590:~> rmvterm -m <Server-9119-590-SN8305FBF> -p  
<p590n22>
```

```
# Activation of a LPAR (specify profile)
```

```
hscroot@hmcp590:~> chsysstate -r lpar -m <Server-9119-590-SN8305FBF>  
-o on -f <profile> -n <p590n22>
```

```
# Boot a LPAR into SMS Menu (specify profile)
```

```
hscroot@hmcp590:~> chsysstate -r lpar -m <Server-9119-590-SN8305FBF>
```

```
-o on -f <profile> -b sms -n <p590n22>
```

```
# Boot a LPAR into Open Firmware prompt (specify profile)
```

```
hscroot@hmcp590:~> chsysstate -r lpar -m <Server-9119-590-SN8305FBB>  
-o on -f <profile> -b of -n <p590n22>
```

```
# List available profiles for a given LPAR
```

```
hscroot@hmcp590:~> lssyscfg -r prof -m <Server-9119-590-SN8305FBB>  
--filter "lpar_names=<p590n22>"  
*name=p590n22 normal,lpar_name=p590n22,lpar_id=22,lpar_env=aixlinux,a  
ll_resources=0,min_mem=1024,  
desired_mem=4608,max_mem=6144,proc_mode=shared,min_proc_units=1.0,des  
ired_proc_units=1.0,  
max_proc_units=4.0,min_procs=1,desired_procs=1,max_procs=8,sharing_mo  
de=uncap,uncap_weight=128,  
"io_slots=2104001C/none/1,21020025/none/1,21040025/none/1,21010020/no  
ne/1,21030025/none/1",  
lpar_io_pool_ids=none,max_virtual_slots=10,"virtual_serial_adapters=1  
/server/1/any//any/1,0/server/1/any//any/1",  
"virtual_scsi_adapters=2/client/1/p590v01/22/0,3/client/2/p590v02/22/  
0",virtual_eth_adapters=none,  
sni_device_ids=none,hca_adapters=none,boot_mode=norm,conn_monitoring=  
1,auto_start=0,power_ctrl_lpar_ids=none,  
work_group_id=none,redundant_err_path_reporting=null
```

```
# Bring the key switch to position NORMAL
```

```
# On some power5 HMCs, when a LPAR does not properly boot after  
issuing the power on command,
```

```
# showing a message similar to following one
```

```
0514-440 cfgcon: failed to create log file: check path name,  
permissions, and available space
```

```
# it may be necessary to set the key switch back to normal position  
hscroot@hmcp590:~> chsysstate -r lpar -o chkey -k norm -n <p590n22>  
-m <Server-9119-590-SN8305FBF>
```

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