

Lenovo Intelligent Cluster factory settings

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The following tables show the factory settings for network addressing, user IDs, rack numbering, BladeCenter® / Flex / NeXtScale unit and node numbering, I/O bay location numbering, and hostnames of the various Lenovo Intelligent Cluster™ components. Table 6 lists the factory set hardware user ID and passwords.

Table 1: Network addressing* and host names

IP Address	Hostname	Component
172.20.0.1	mgt.cluster.com	Management node <i>eth0</i> (cluster vlan)
172.30.0.1	mgt1.cluster.com	Management node <i>eth1</i> (management vlan)
172.29.0.1	bmc	Management node alias <i>eth0:1</i> (cluster vlan)
172.29.101.1*	bmc001	Node BMCs
172.30.1.1	storage001	Storage nodes
172.30.2.1*	triton01A	DS3000/DS3500, V3700, v7000 storage controllers (A, B)
172.30.3.1	RamSan	IBM FlashSystem 720. 820
172.30.4.1	GSS x (1 or 2)	GSS Storage Server (Two servers in each solution)
172.20.101.1	node001	Compute nodes
172.40.101.1	hca001	HCA cards <i>ib0</i> (cluster vlan)
172.20.4.1	user001	User nodes
172.30.10.1*	in-001 mlnxsx6025-001 mlnxsx6036-001 mlnxsx6036-001 mlnxc6512-001 mlnxc6518-001 mlnxsx6536-001 mlnxsx6536-001 mlnxb7790-001 mlnxc7500-001	InfiniBand Switches Intel 12200, 12800 Mellanox SX6025 FDR Mellanox SX6036 FDR-10 (SB) Mellanox SX6036 FDR Mellanox SX6512 FDR Mellanox SX6518 FDR Mellanox SX6536 FDR-10 (SB) Mellanox SX6536 FDR Mellanox SB7790 EDR Mellanox SC7500 EDR
172.30.15.1*		IB to Eth Gateway
	mlnxsx6036-GW-001	Mellanox SX6036-GW IB to Eth Gateway
172.30.20.1*	ts-001	Terminal servers : Cyclades ACS32/ACS48
172.30.50.1*		1U/2U 1G Ethernet Switches
	lenovoG7028-001 lenovoG7052-001 lenovoG8000-001 lenovoG8052-001 lge4550-001 lge5048xg-001 lgees4052g-001 ecs4110-52T -001 ecs4510-52T -001 ecs4600-54T -001 extX460-48T -001	Lenovo RackSwitch G7028 Lenovo RackSwitch G7052 Lenovo RackSwitch G8000 Lenovo Rack Switch G8052 LG-Ericsson 4550G (SB) LG-Ericsson ES-5048XG (SB) LG-Ericsson ES-4052G Edge-Core ECS4110-52T 1GbE Switch Edge-Core ECS4510-52T 1GbE Switch Edge-Core 4600-54T 1GbE Switch Extreme Summit X460-G2-48t 1GbE Switch
172.30.55.1	Lenovo8124-001 Lenovo8264-001 Lenovo8272-001 Lenovo8332-001 mlnxsx1036-001 ecs5610-52S-001 ecs5600-52X-001 ecs6700-32X-001 extX670-48x -001 extX670-48t -001 extX770-32q -001	1U/2U 10G / 40G Ethernet Switches Lenovo RackSwitch G8124 (1Gb-10Gb) Lenovo RackSwitch G8264 (10Gb) Lenovo RackSwitch G8272 (10Gb) Lenovo RackSwitch G8332 (40Gb) Mellanox SX1036 40GbE Edge-Core ECS5610-52S 10GbE Switch Edge-Core 5600-52X 10GbE Switch Edge-Core 6700-32X 40GbE Switch Extreme Summit X670V-48x 10Gb Switch Extreme Summit X670V-48t 10Gb Switch Extreme Summit X770-32q 40GbE Switch
172.30.65.1*	Isisas6160-001	LSI SAS6160 SAS Switch
172.30.70.1*	lcm-001	LCM
172.30.71.1*	gcm-001	GCM

172.30.80.1*		Enterprise Ethernet Switches
172.30.80.1*	extBDx8	Extreme Networks BDx8 chassis switch
172.30.85.1*	fc-001	Fibre Channel switches
172.30.90.1*	Rack-PDU	Rack Power Products
172.30.101.131*	mm-001	BladeCenter AMM / Flex CMM / FeiHu FPM

1 Indicates the hard-coded IP address of the various Intelligent Cluster components.

Note: IP addresses for similar components increment based on location from the bottom upward and from left to right within the rack (as viewed from the front), and then continue from left to right across the racks of a multi-rack solution.

Table 2: Compute node IP addressing

Rack name	Network	Rack number	Node*
Rack1	172.20	101	1 to 112
Rack2	172.20	102	1 to 112

Example: rack 1, node 1 = 172.20.101.1

* Node numbering increases from the bottom of the rack upward.

BladeCenter / Flex / Fei Hu node numbering increases from the bottom of the rack upward, and from left to right within the BC chassis, or within same U location in Flex /FeiHu chassis.

Table 3: BMC IP addressing

Rack name	Network	Rack number	Node
Rack1	172.29	101	1 to 112
Rack2	172.29	102	1 to 112

Example: rack 1, node 1 = 172.29.101.1

Table 4: BladeCenter module IP Addressing BC-H with advanced management module (AMM). Flex CMM and Fei Hu FPC module IP addressing follows same strategy as BC AMM.

Network	Rack number	I/O bay location number (1-10) + BladeCenter unit number (1-6)
172.30*	101	1 to 10 (SM I/O bay 1 – SM I/O bay 10) + 1 to 6 BC / Flex chassis
172.30*	102	1 to 10 (SM I/O bay 1 – SM I/O bay 10) + 1 to 6 BC / Flex chassis
172.30*	101	AMM* / FPC 130 + 1 to 6 BC or Fei Hu chassis number CMM ** 130 + 1 to 6 (1 st CMM in chassis up to 6) 2 nd CMM in chassis 140 + 1 to 6 (2 nd CMM in chassis up to 6) *all AMMs in the same BladeCenter share one IP address. ** Each CMMs must have a unique IP address see example below.

Examples: 172.30.101.34 – the switch module fitted to I/O bay 3 in BladeCenter unit 4 of rack 1

172.30.102.46 – the switch module fitted to I/O bay 4 in BladeCenter unit 6 of rack 2

172.30.106.104 – the switch module fitted to I/O bay 10 in BladeCenter unit 4 of rack 6

172.30.106.133 – the AMM for BladeCenter unit 3 of rack 6

Example (FLEX CMM)

172.30.101.131 1st CMM in a chassis

172.30.101.141 2nd CMM in SAME chassis as 1st CMM

Table 5: InfiniBand HCA IP Addressing

Rack name	Network	Rack number	HCA*
Rack1	172.40	101	1 to 112
Rack2	172.40	102	1 to 112

Example: rack 1, hca 1 = 172.40.101.1

*Host channel adapter (HCA) numbering increases from the bottom of the rack upward.

Table 6: Factory set user IDs and passwords

Hardware	User ID	Password	Comments
Lenovo switch	admin	admin	Default
Cyclades terminal	root	tslinux	Default
Extreme Networks	admin	none	Default
LG-Ericsson 4550, 5048, 4052,8024	admin	admin	Default
LSI SAS6160	admin	admin	Default
DS3000/4000 Storage	shellUser	wy3oo&w4	Default
Fibre Channel switch	admin	password	Default
RSAs	USERID	PASSW0RD	The 0 in passw0rd is a zero
Flex CMM	USERID	Passw0rd	The 0 in passw0rd is a zero
BladeCenter AMM / FeiHu FPM	USERID	PASSW0RD	The 0 in passw0rd is a zero
Mellanox	admin	admin	Default
Intel InfiniBand switch	admin	adminpass	Default
V3700 / V7000	superuser	passw0rd	Default
Intel BC FC switch module	USERID	PASSW0RD	The 0 in passw0rd is a zero
Edge-Core	admin	none	Default
One Stop Systems (OSS)	admin	none	Default

Table 7: Operating system passwords

Operating system	USERID	Password	
Management server	root	PASSW0RD	0= zero
Nodes	admin	cluster	
	root	cluster	

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