

IBM Intelligent Cluster factory settings

June, 2014

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 IBM® Intelligent Cluster™ components. Table 6 lists the factory set hardware user ID and passwords.

Table 1: Network addressing* and hostnames

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*	volt-001	InfiniBand Switches
	ql-001	Voltaire 2004, 2012, 2036, 9096, 9288,4036, 4036 ^E , 4200, 4700.
	mlnxis5030-001	Qlogic 9024, 9080, 9120, 9240, 12200, 12300, 12800
	mlnxis5100-001	Mellanox IS5030
	mlnxis5200-001	Mellanox IS5100
	mlnxis5300-001	Mellanox IS5200
	mlnxis5600-001	Mellanox IS5300 and IS5600
	mlnxsx6036-001	SX6036 FDR-10
	mlnxsx6036-001	SX6036 FDR
	mlnxsx6512-001	Mellanox SX6512 FDR
	mlnxsx6518-001	Mellanox SX6518 FDR
	mlnxsx6536-001	SX6536 FDR-10
	mlnxsx6536-001	SX6536 FDR
172.30.15.1*	mlnxbx5020-001	40Gb IB / 10Gb E / 1Gb E / FC Bridge
	mlnxsx6036-GW-001	BX5020 BridgeX
172.30.20.1*	ts-001	Mellanox SX6036-GW IB to Eth Gateway
		Terminal servers : Cyclades ACS32/ACS48

172.30.50.1*	bnt80xx-001 ibm8052-001 ibmG7028 ibmb50c-001 ibmb24x-001 ibmb48y-001 lge4550-001 lge5048xg-001 lgees4052g-001 smc8126-001 smc8150-001 ecs4110-52T -001 ecs4510-52T -001	1U/2U 1G Ethernet Switches BNT G8000 IBM BNT G8052 IBM RackSwitch G7028 IBM B50C (Brocade) IBM B24X (Brocade) IBM B48Y (Brocade) LG-Ericsson 4550G LG-Ericsson ES-5048XG LG-Ericsson ES-4052G SMC 8126L2 (LG-Ericsson) (SB) SMC 8150L2 (LG-Ericsson) (SB) Edge-Core ECS4110-52T 1GbE Switch Edge-Core ECS4510-52T 1GbE Switch
172.30.55.1	ibm8264-001 ibm8316-001 ibm8332-001 ibmb32-001 mlnxsx1036-001 ecs5610-52S-001	1U/2U 10G / 40G Ethernet Switches IBM BNT G8264 IBM RackSwitch G8316 IBM RackSwitch G8332 IBM Converged Switch B32 (FcoE / 10G) Mellanox SX1036 40GbE Edge-Core ECS5610-52S 10GbE Switch
172.30.60.1*	apc-001	APC
172.30.65.1*	lsisas6160-001	LSI SAS6160 SAS Switch
172.30.70.1*	rcm-001	RCM
172.30.80.1*		Enterprise Ethernet Switches
172.30.85.1*	fc-001	Fibre Channel switches
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
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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
Avocent MP 5300	root	avocent	Default
APC switch	apc	apc	Default
Itouch terminal	access	system	Default
InReach terminal	InReach	access	Default
BNT switch	admin	admin	Default
Cyclades terminal	root	tslinux	Default
Cisco switch	(see Comments)	ibm1350	Press Enter at the userid prompt
LG-Ericsson 4550, 5048, 4052	admin	admin	Default
LSI SAS6160	admin	admin	Default
SMC switch	admin	admin	Default
SMC 8024L2	admin	smcadmin	Default

DS3000/4000 Storage	shellUser	wy3oo&w4	Default
Fibre Channel switch	admin	password	Default
FlashSystem 7010/20, 810/20	admin	password	Default
Force10	none	none	For priv exec, the password is force10
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
Cisco InfiniBand switch	admin	adminpass	Default
Mellanox	admin	admin	Default
Qlogic InfiniBand switch	admin	adminpass	Default
V3700 / V7000	superuser	passw0rd	Default
Voltaire InfiniBand switch	admin	123456	Default
QLogic BC FC switch module	USERID	PASSW0RD	The 0 in passw0rd is a zero
Juniper	admin	admin	Create at initial log in
Edge-Core	admin	none	Default

Table 7: Operating system passwords

Operating system	USERID	Password
Management server	root	ibm1350
Nodes	admin	cluster
	root	cluster

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