Wake on LAN Feature

This chapter describes the Wake on Lan (WOL) feature.

Wake On LAN (WOL) is a combination of hardware and software technologies to wake up sleeping systems. WOL is enabled or disabled for each individual switch using AMM. You must also enable WOL on the NIC of the server that is connected to the switch.

Note

Confirm that WOL is enabled for a particular switch in the IBM BladeCenter and on the NIC of the server, before you perform a WOL function on that switch.

WOL uses specially coded network packets, called magic packets, to systems equipped and enabled to respond to these packets. WOL is based on the principle that when the server blade in the IBM BladeCenter chassis shuts down, the NIC still receives power and operates in the 1 Gb mode, and keeps listening on the network for the magic packet to arrive that wakes up the server. When the server wakes up, the NIC transitions from 1 Gb to 10 Gb mode for normal operation.

When the NIC transitions from 10 Gb to 1 Gb and from 1 Gb to 10 Gb, the Cisco Nexus 4001I and 4005I Switch Module for IBM BladeCenter auto-negotiates with the NIC to operate in the corresponding mode. The switch provides 1 Gb/10 Gb internal support for auto-negotiation of WOL and transparently transports the magic packet to the server blades.