Setting up remote access control on DELL systems

Summary

The article provides information on how to set up remote access control on DELL systems.

Details

All Dell systems are shipped with a utility called Remote Access Control. This is a small secondary system, running independently from the primary system and is used to troubleshoot the primary system. When the system is shipped this feature is disabled and the installer will need to enable it.

To enable the Remote Access Control Utility, the system will need to be assigned IP address and a secondary network cable for Remote Access Control.

As shown below, all system have a single network interface located on the lift hand side of the system, this is for Remote Access Control only.

The following is an example of how the 4600 and 5600 system look from the back; note that the 4600 system will only have one power supply the 5600 has two.

Following is an example of how the 6600 system looks from the back.

Once the network connection has been established they system needs to be rebooted. During the boot sequence, an option to enter into Remote Access Setup will occur right after F/W Initializing Devise. The customer will need to press <Ctrl-E> to enter into the configuration window.

Press <Ctrl-E> for Remote Access Setup within 5 sec...

Once in the Remote Access Configuration Utility, the customer will need to enable the *IPMI Over LAN* option. To do this, the customer will need to highlight the 'IPME Over LAN' entry and then press the right or left arrow button.

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━━━━━━━━━━━━━━━━ Remote Access Configuration Utility ━━━━━━━━━━━━━━
               Copyright 2006 Dell Inc. All Rights Reserved 1.03


  Baseboard Management Controller Revision              1.27
  Remote Access Controller Revision (Build 06.05.12)    1.0
  Primary Backplane Firmware Revision                   1.00


  IPMI Over LAN ............................................. Off
  NIC Selection ....................................... Dedicated
  LAN Parameters ....................................... <ENTER>
  Advanced LAN Parameters .............................. <ENTER>
  Virtual Media Configuration .......................... <ENTER>
  LAN User Configuration ............................... <ENTER>
  Reset To Default ..................................... <ENTER>
  System Event Log Menu ................................ <ENTER>
```

Before 'IPMI Over LAN' is enabled, a warning messages will appear. Press the ESC key to continue.

```
  Baseboard Management Controller Revision              1.27
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  IPMI Over LAN ............................................. Off
  NIC Se┌───────────────────────────────────────────────────┐ ed
  LAN Pa│                                                   │
  Advanc│                   ‼ WARNING ‼                     │
  Virtua│                                                   │
  LAN Us│   BMC Management traffic will not function properly if the │
  Reset │   LAN on Motherboard  (LOM) is teamed with any network │
  System│   adapter add-in-cards.                            │
        └───────────────────────────────────────────────────┘
```

Once 'IPMI over LAN' is enabled, the customer will need to configure the Ethernet IP address, Subnet Mask and Default Gateway for IPMI over LAN. To do this, the customer will need to press the down arrow key until he/she reaches the 'LAN Parameters' option within the main window, and then to hit Enter.

```
  IPMI Over LAN ............................................. On
  NIC Selection ....................................... Dedicated
  LAN Parameters ....................................... <ENTER>
```

The configuration window for 'LAN Parameters' will appear. Here, down arrow to *Ethernet IP Address*, *Subnet Mask* and *Default Gateway*, and right arrow to configure the option. Press Enter to save the data. Finally, press <ESC> to exit the "LAN Parameters' configuration window.
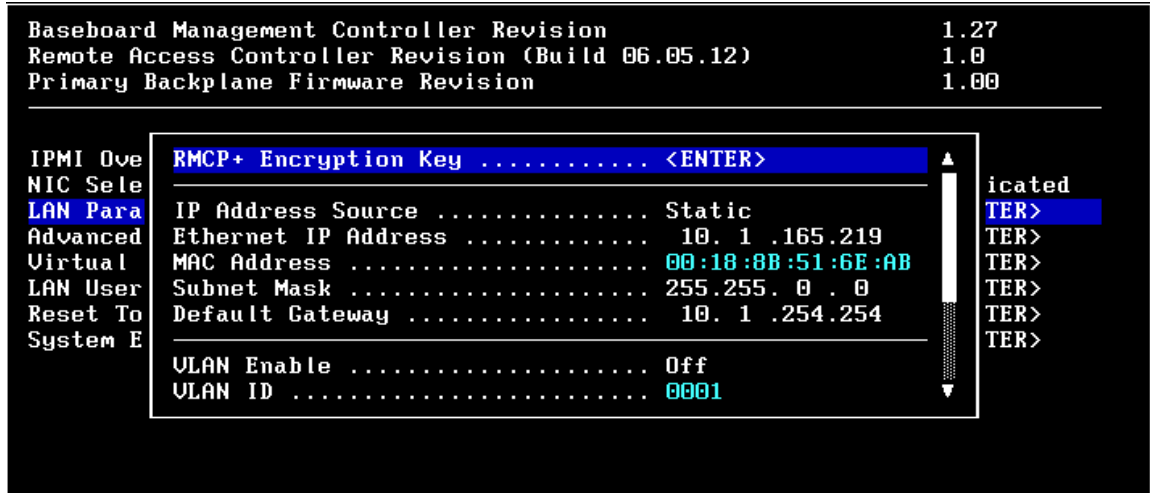
Once the 'IPMI over LAN' and 'LAN Parameters' options have been configured, hit <ESC> to exit the configuration window; the system could ask if you wish to save the changes. If so, select Yes to continue the boot up process.

To access the user interface, go to the latest version of Firefox or IE and enter the IP address of the Remote Access Control Utility using https://<IP Address>.

Example of the login window is shown below: