



Mindbreeze InSpire

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Management Center



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# 1 Preparation

The Mindbreeze InSpire Management Center is the interface where administration and management tasks can be performed on a Mindbreeze InSpire Search Appliance.

## 1a Firewall Configuration

For accessing the Mindbreeze InSpire Management Center make sure that the following network ports are accessible on the connected Mindbreeze InSpire **server network interfaces**.

Admin and Management Ports:

- Port 8443 (HTTPS) for accessing the Mindbreeze Management Center
- Port 8444 (HTTPS) for accessing the Mindbreeze System Configuration Interface.

General Mindbreeze Ports:

- Port 443 (HTTPS) for accessing the Mindbreeze Client

For using the iDRAC interface of the Mindbreeze InSpire Server the following Ports have to be accessible on the Mindbreeze InSpire Server's iDRAC network interface:

- Port 443 (HTTPS) for accessing the iDRAC Web Interface
  - Port 5900 (TCP, UDP) for accessing the iDRAC Virtual Console
- .....

# 2 Getting Started

## 2a Connect by Wire

Make sure that the Mindbreeze InSpire Appliance network interface cards (NICs) are connected by wire. At least the iDRAC interface as well as one of the host NICs. Per default the Mindbreeze InSpire NICs are set to DHCP. See below on how to use iDRAC to obtain the host MAC address for reserving a DHCP lease.

## 2b IP Address Configuration of the iDRAC Interface (physical access required)

The IP address of the iDRAC interface after successful connection can be viewed **locally** on the **front panel LCD** by accessing the following menu:

- Home > View > iDRAC IP > IPv4 | IPv6 and selecting IPv4 (if it is the case).



A short introduction about the Front Panel LCD is available at:

<http://en.community.dell.com/techcenter/extras/w/wiki/3869.lcd-info-screen-and-led-alert-panel-on-poweredge-12th-generation-servers#Setting>

With this information you can retrieve from the DHCP server which IP address was leased for the network interfaces.

If DHCP is not available for the iDRAC network interface the IP Address can be set manually via the Front Panel LCD, as follows:

- Navigate from home screen to setup screen and then to the Static IP tab:  
Home > Setup ->iDRAC -> DHCP | Static IP -> IP: 192.168.2.12
- After IP v4 configuration from the same screen we can configure sub network mask and gateway as well:  
Home > Setup > IDRAC > Static IP - >Sub: 255.255.255.0  
Home > Setup > IDRAC > Static IP - >Gtw: 192.168.2.1

On the Front Panel LCD of the server also the MAC addresses of the host interfaces are listed. For viewing the MAC addresses, please follow this path:

- Home > View > MAC >iDRAC| iSCSI1 | iSCSI2 | iSCSIn | NET1 | NET2 ...NETn. Here the NET1..N interfaces are the host network interfaces.

## 2c Option 1) IP Address Configuration of the Host Interfaces via DHCP

If DHCP is available the MAC addresses of the host interfaces (either obtained in the previous step) or obtained via the iDRAC Admin portal ([https://<iDRAC\\_IP>:443](https://<iDRAC_IP>:443)) can be used to identify/or reserve the respective DHCP leases and therefore the obtained IP addresses.

Login for the iDRAC Admin Portal:

- Username: root
- Password: Appliance123

The screenshot displays the iDRAC Admin Portal interface. On the left is a navigation menu with categories like System, Overview, Server, iDRAC Settings, Hardware, Network Devices, and Storage. The 'Network Devices' section is selected, and 'Embedded NIC 1' is highlighted. The main content area shows 'Ports and Partitioned Ports' with a table listing 'Embedded NIC 1 Port 1 Partition 1'. Below the table, there are sections for 'Link connection', 'MAC Addresses', and 'Port Properties'.

Link Status	Port	Partition	Protocol
-	Embedded NIC 1	Port 1	Partition 1

**Link connection**

Link Status ..... Down  
Link Speed ..... None  
OS Driver State ..... Operational  
Auto Negotiation ..... Disabled

**MAC Addresses**

MAC Addresses .....  aa:bb:cc:dd:ee:ff      Virtual MAC Addresses ..... aa:bb:cc:dd:ee:ff

**Port Properties**

Family Firmware Version ..... 7.10.64  
Family Driver Version ..... linux:3.137.0.0  
PCI Device ID ..... 165F

## 2d) Option 2) IP Address Configuration of the Host Interfaces via iDRAC

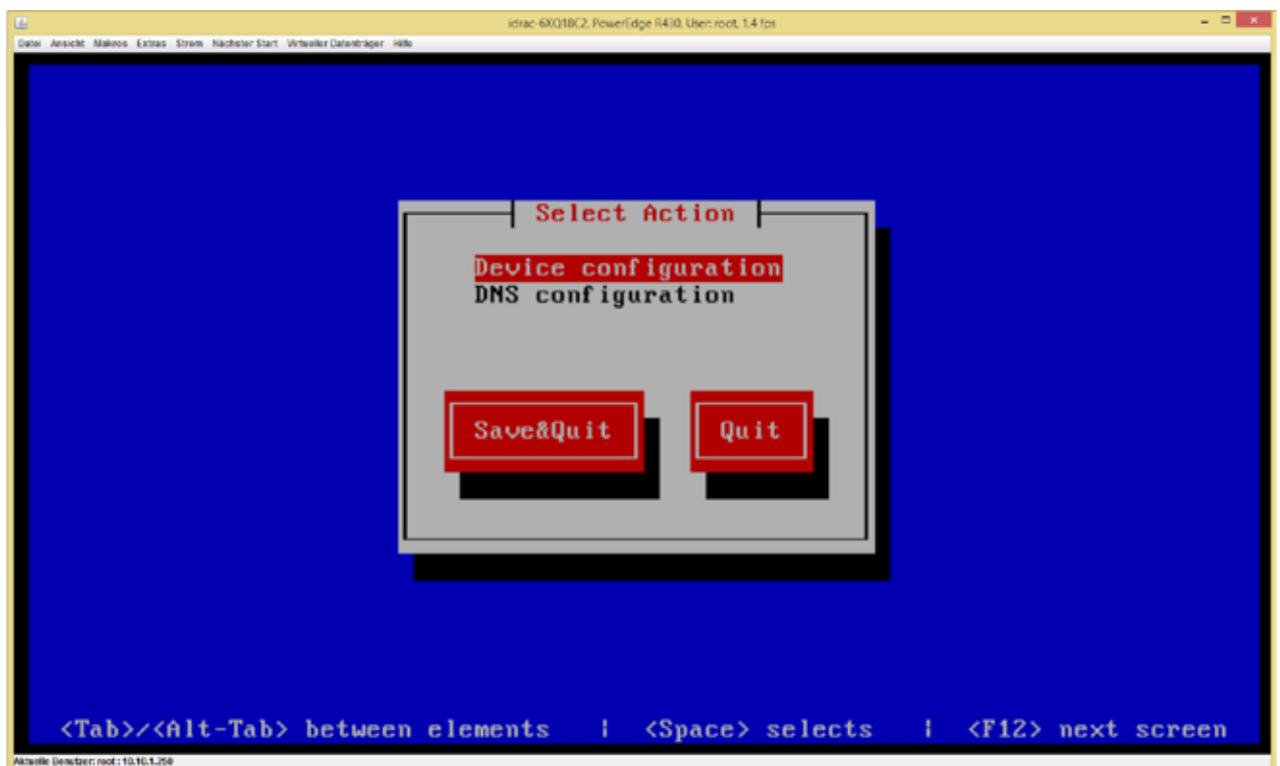
If DHCP is not available to automatically assign network settings to the host network interfaces, the network configuration for these interfaces can be accomplished by connecting to the Virtual Console using the iDRAC Web Interface ([https://<iDRAC\\_IP>:443](https://<iDRAC_IP>:443)).

In the Virtual Console, log in with the following credentials:

- Username: `config`
- Password: `Appliance123`



After a successful login the Network Configuration Interface is shown. Here the DNS Server and the static addresses of all the network interfaces can be configured. It is recommended to configure the DNS server only via "DNS configuration".



## 2e) Option 3) IP Address Configuration of the Host Interfaces via physical access

If access to iDRAC is not available log in using the config user can also be performed physically. See above for the steps to set the Device and DNS configuration.

### 3 Management Center

#### 3a Accessing the Mindbreeze InSpire Management Center

After a successful network configuration the Mindbreeze InSpire Management Center is accessible via the following Secure HTTP Link: `https://<ip_address>:8443`. Here the `<ip_address>` tag is the IP address of one of the connected network interfaces.

For accessing the Mindbreeze InSpire Management Center login credentials are required. By default the management center can be accessed with “admin” user and “Appliance123” password.

The screenshot displays the Mindbreeze Management Center interface. The left sidebar contains navigation options: Search Apps, Reporting, Search Experience, Services (selected), Configuration, and System. The main content area is titled 'MANAGEMENT CENTER' and features three data sections:

- Services (8):** A table listing services with columns for Status, Service Name, Node, and Associated Index. Services include Filter, Client, and Index.
- Nodes (1):** A table with columns for Node, Number of Services, Indexed Document Count, and Document Limit.
- Category Plugins (27):** A table with columns for Category, Access Interface Library, and Context Interface Library.

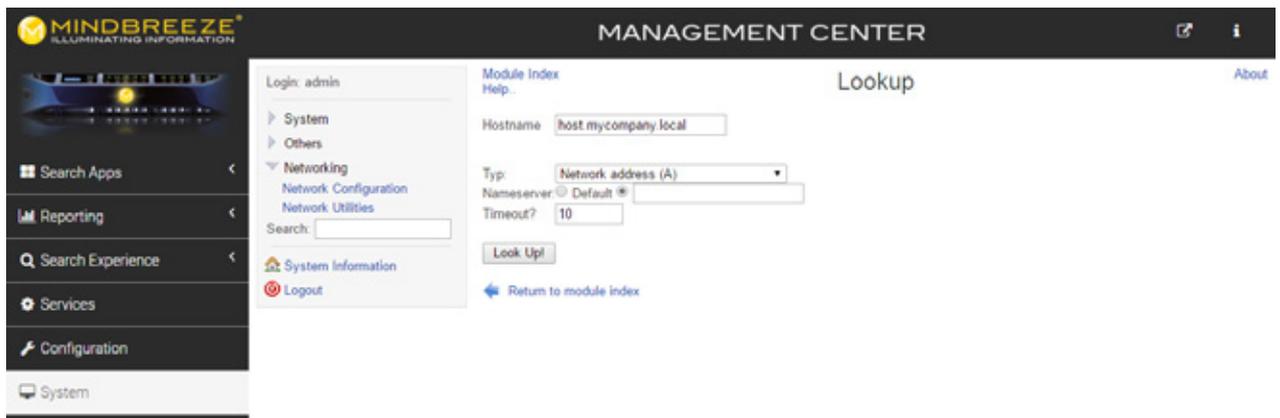
#### 3b Testing Firewall, Gateway and Domain Name Resolution Configuration

To make sure that the Appliance can access resources within the enterprise and/or the internet one can use the “System” section. Login using the admin user and test DNS resolution via Lookup or Dig, connectivity via Ping or Traceroute (requires ICMP protocol access).

The screenshot shows the 'Network Utilities' section of the Mindbreeze Management Center. The left sidebar is updated with 'System Information' and 'Logout' options. The main content area displays a grid of network utility icons: Ping, Traceroute, IP Subnet Calculator, Whois, Lookup, and Dig. Below the grid is a table for testing these utilities:

Hostname	Ping	Traceroute	Nslookup	Nmap	Dig
	Ping It!	Trace It!	Look Up!	N/A	Dig It!

Press “Look Up!” to check that the IP address can be obtained.

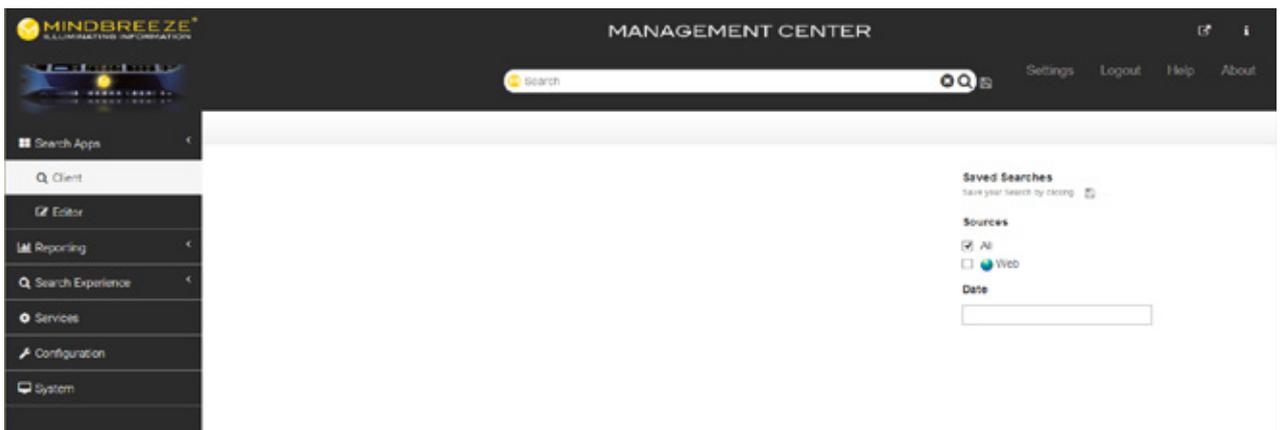


## 4 Sections

Below is the short description of the main sections in the Mindbreeze InSpire Management Center.

### 4a Search Apps

In this section a preconfigured Mindbreeze Client Service and a Search App Editor can be accessed.



### 4b Reporting

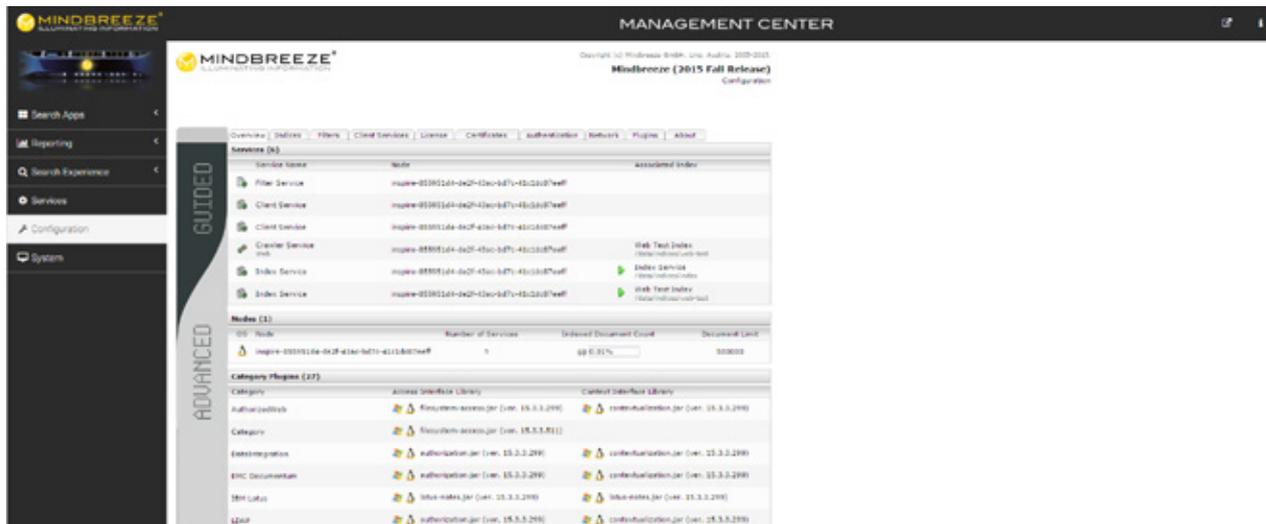
Here you can explore reports, telemetry data and statistics related to the Mindbreeze services.





## 4e Configuration

The detailed configuration of the Mindbreeze services and components can be accessed and modified from this section. A detailed description of the configuration settings is available on <http://help.mindbreeze.com/>



## 4f System

In this section different operating system level options can be performed. To access this configuration section an additional login is needed. The default login credentials are again username "admin" and password "Appliance123".

