



How To Guide: *Getting Started*

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Check Package Contents

The Q-Balancer kit contains:

- Q-Balancer Hardware Appliance
- Rack Mount Kit
- RJ45 Ethernet Cable
- RS-232 Null Modem Cable
- AC Power Cord or External Power Supply

Administrative Access via Web UI

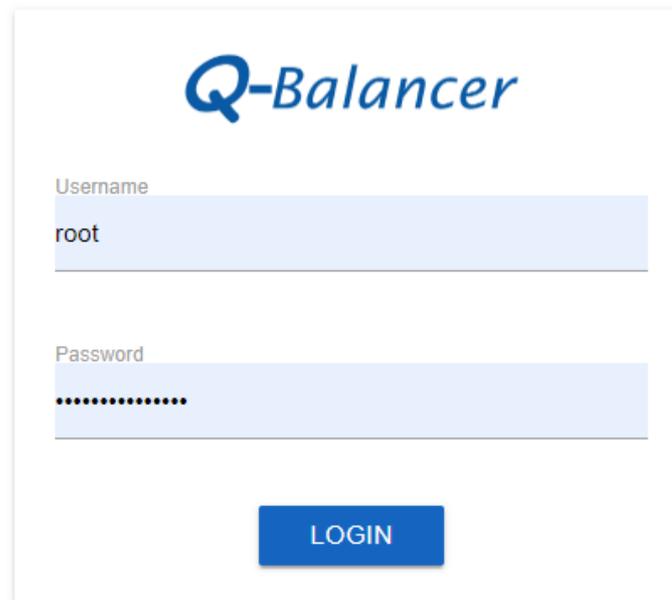
Things you should know before you access the appliance...

- On very last port, there is a default IP:
172.31.3.1/255.255.255.252.
- On the management PC, set IP configuration as below:
172.31.3.2/255.255.255.252, GW: 172.31.3.1.
- Default web UI access is at <http://172.31.3.1:4000> or <https://172.31.3.1>.

Administrative Access via Web UI

The default user name to log in Web UI is 'root'.

172.31.3.1:4000



The screenshot shows the Q-Balancer login interface. At the top, the Q-Balancer logo is displayed. Below the logo, there are two input fields: 'Username' and 'Password'. The 'Username' field contains the text 'root'. The 'Password' field is filled with a series of dots. Below the input fields, there is a blue button labeled 'LOGIN'.

Web UI Overview

First page you see after the login

Tree Menu

- Dashboard
- Status
- WAN
- Tunnels
- LAN
- Objects
- Policy Routing
- Dynamic Routing
- Server Mapping
- Firewall
- VPN
- Network
- DNS
- HA
- Diagnostics
- System
- Logs and Reports

Information

Model	QB-Mesh-1
Hostname	qbalancer
Serial Number	14L0163
Uptime	6 Day 22 Hour 04 Min
Firmware	Mesh-5.0.0-0025
Registered Date	2018-10-05
Warranty Expiry Date	0

System

- CPU: 62%
- Memory: 57%
- RAM Disk: 56%
- OS Storage: 29%

Sessions

Legend: HiNet (Blue), SIM_1 (Cyan), SIM_2 (Yellow), SPARQ (Orange)

Web UI Overview

Tree Menu - Part 1

WAN

Tunnels

LAN

Objects

Policy Routing

Dynamic Routing

Server Mapping

Firewall

WAN

WAN links

Tunnels

TMV bonding tunnels

LAN

Subnets on LAN

Objects

A variety of objects for policy-based load balancing

Policy Routing

Failover & load balancing policy for outbound traffic

Dynamic Routing

Routing protocols, RIP/OSPF/BGP

Server Mapping

Rule that forwards the incoming traffic from virtual server(s) to real server(s)

Firewall

Rule that blocks network traffic passing the appliance

Web UI Overview

Tree Menu - Part 2

VPN

Network

DNS

HA

Diagnostic

System

Logs and Reports

VPN

VPN tunnels terminated on the appliance

Network

IP Binding/Virtual NIC/VLAN/Bridges

DNS

Authoritative/Firewall/Multihoming/GSLB

HA(High Availability)

Active/passive modes

Diagnostic

Inbuilt diagnostic tools

System

Appliance maintenance and host name

Logs and Reports

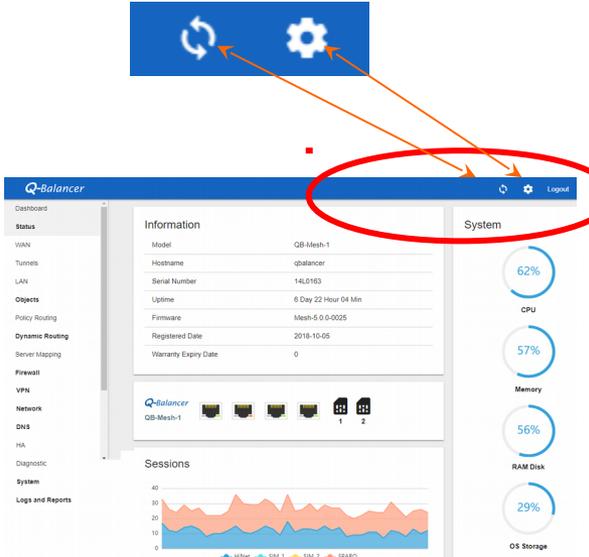
Query regarding the system and network information

Configuration File Management

- There are 3 default configuration files in the appliance, boot, default, and active.
- The function of them are:
 - boot: loaded when a unit reboots
 - default: factory default
 - active: the configure in use when the appliance is on

Configuration File Management

-  - This icon is a switch with which admin can lock/unlock the **Active** configuration file from being modified.
- When the icon appears like  , any configuration change made will take effect immediately.
- When the icon appears like  , the **Active** configuration file can be neither modified nor overwritten.

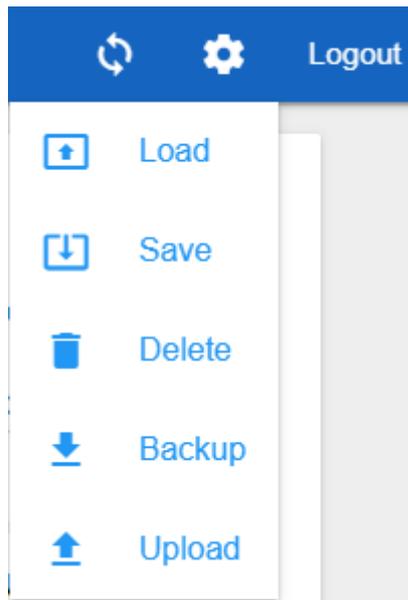


The screenshot displays the Q-Balancer web interface. In the top right corner, there are three icons: a refresh icon, a gear icon, and a lock icon. A red circle highlights these icons, with arrows pointing to the corresponding icons in the list above. The main content area shows system information, including model (QB-Mesh-1), hostname (qbalancer), serial number (14LD163), uptime (6 Day 22 Hour 04 Min), firmware (Mesh-5.0.0-0025), registered date (2018-10-05), and warranty expiry date (0). There is also a 'Sessions' chart and a 'System' section with various performance metrics.

System Metric	Value
CPU	62%
Memory	57%
RAM Disk	56%
OS Storage	29%

Configuration File Management

This icon  provides options to load, save, delete, backup, and upload configuration files.



load/save/delete/
backup/upload



Configuration

Boot

Default

20181009

20181223

Admin Account Management

System > Admin Account > Overview

Admin Accounts

Overview			Options			Status				
<input type="button" value="ADD"/> <input type="button" value="DELETE"/>										
<input type="checkbox"/>	Edit	Enabled	Username	↑↓	Profile	↑↓	Multiple Login Allowed	↑↓	Kick Out If IP Changes	↑↓
<input checked="" type="checkbox"/>		<input type="checkbox"/>	root		read_write		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/>		<input checked="" type="checkbox"/>	wayne		read_write		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

System > Admin Account > Options

Maximum Online Users

4

Idle Time Allowed (minutes)

Slider control for Idle Time Allowed (minutes)

OK

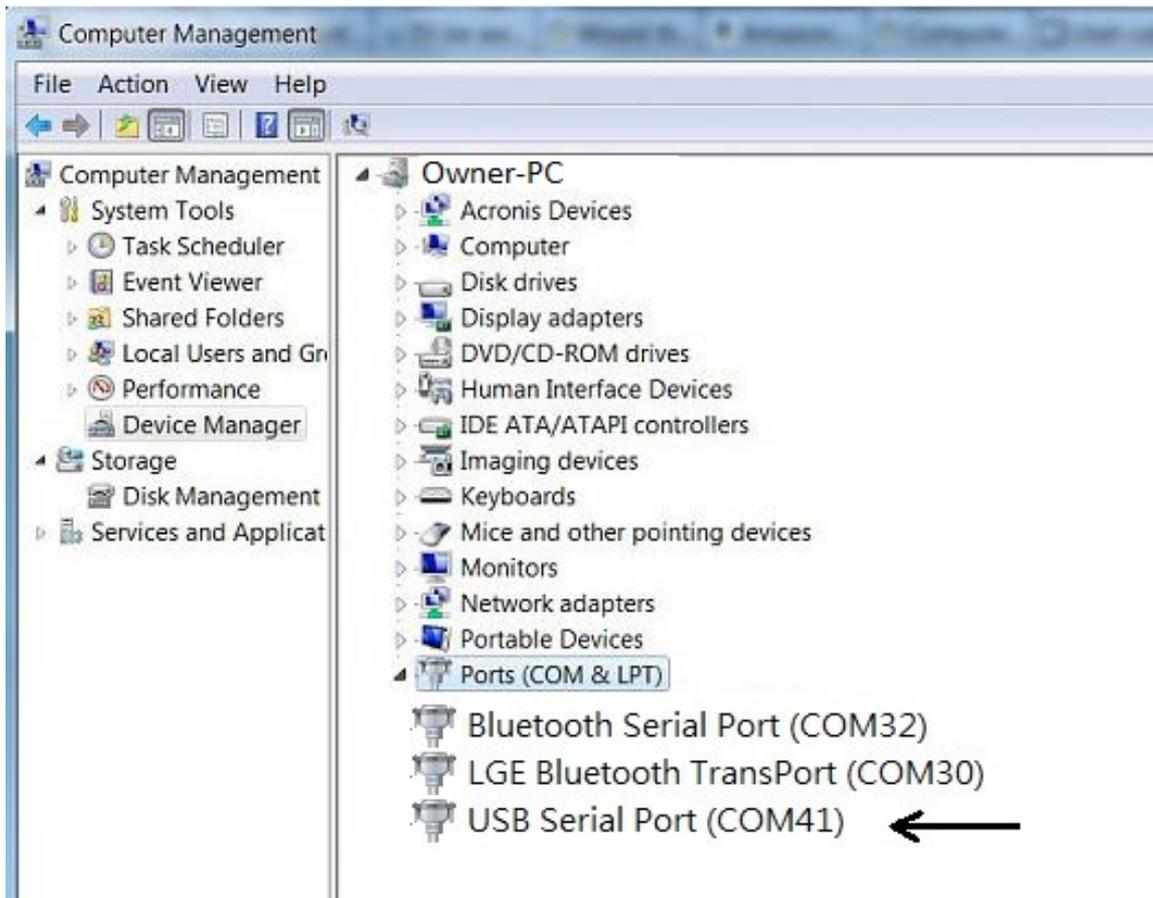
Accessing the CLI via console port using a laptop

- Prepare a Serial Converter connect to your notebook.



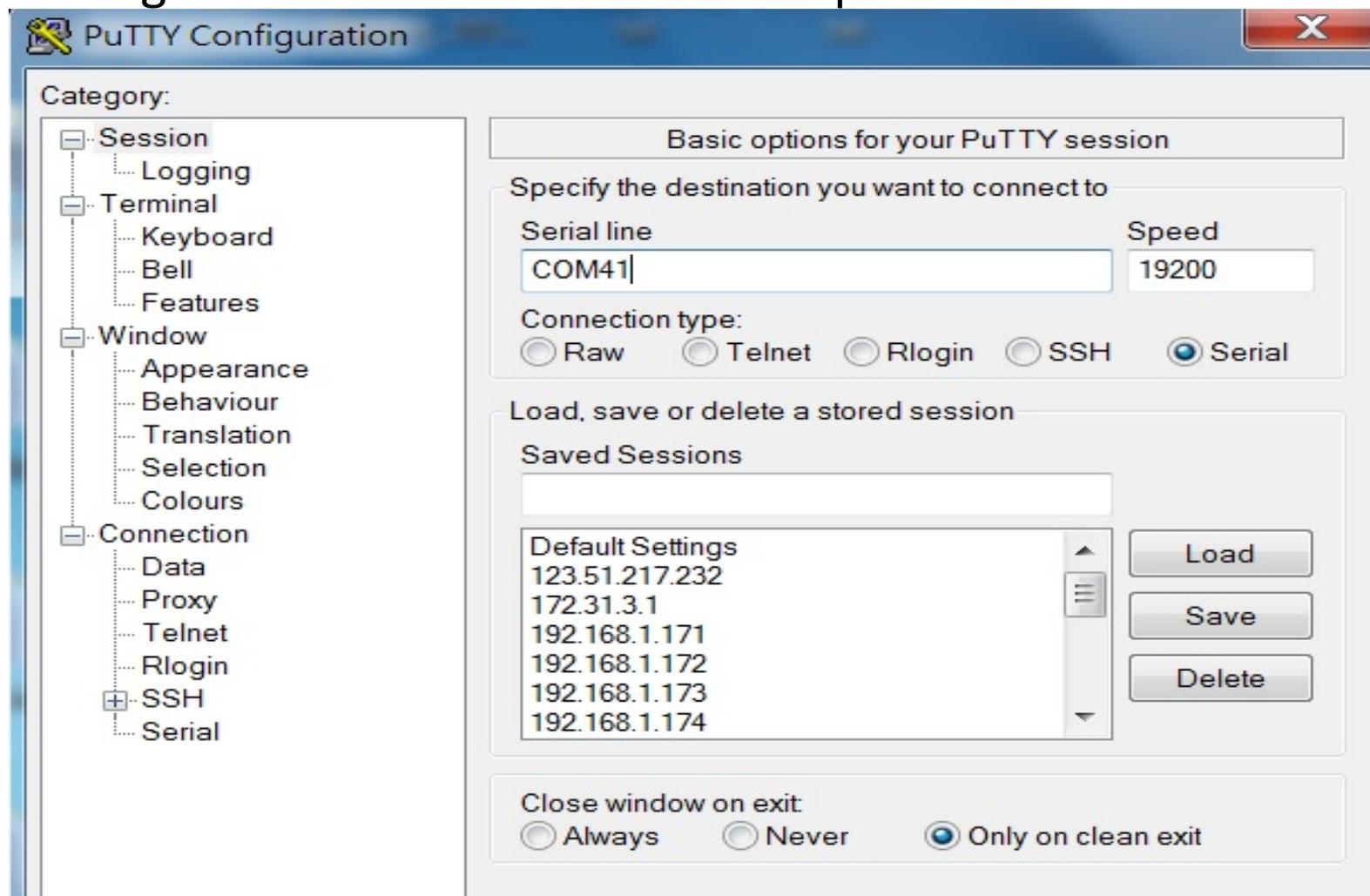
Accessing the CLI via console port using a laptop

- Install driver on your OS and u can find the COM port number



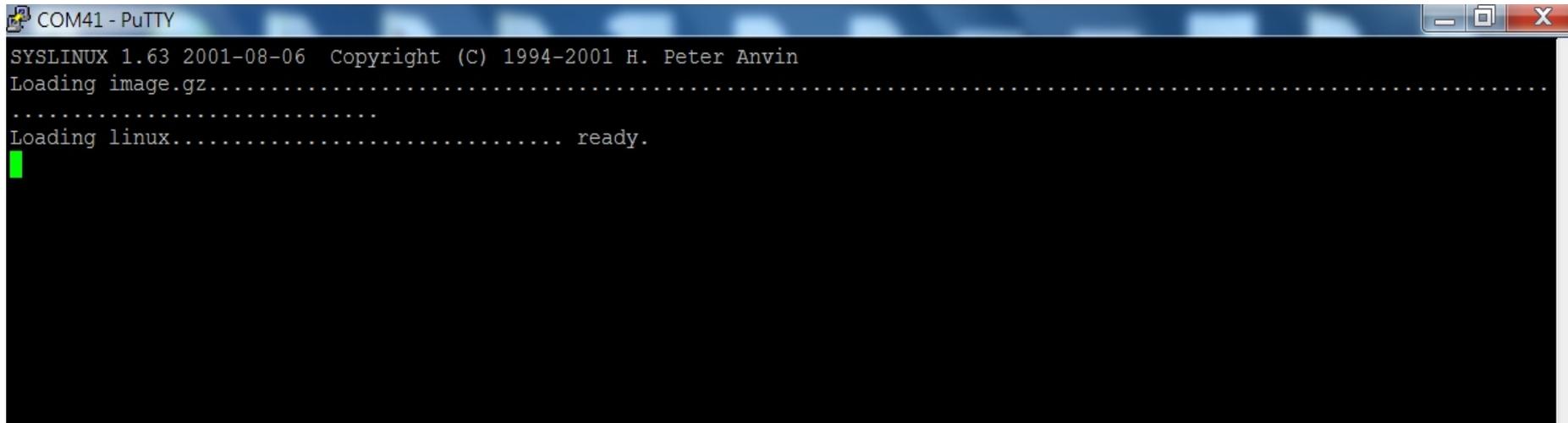
Accessing the CLI via console port using a laptop

- Config baud rate = 19200 and COM port number



Accessing the CLI via console port using a laptop

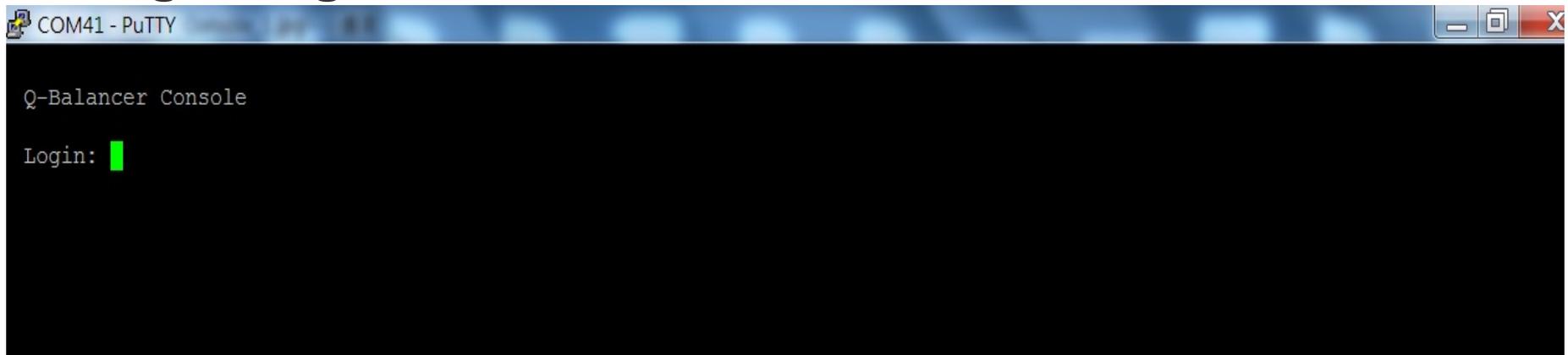
- **Booting message :**



A screenshot of a PuTTY terminal window titled "COM41 - PuTTY". The terminal displays the following text: "SYSLinux 1.63 2001-08-06 Copyright (C) 1994-2001 H. Peter Anvin", "Loading image.gz.....", "Loading linux..... ready.", and a green cursor on the next line.

```
COM41 - PuTTY
SYSLinux 1.63 2001-08-06 Copyright (C) 1994-2001 H. Peter Anvin
Loading image.gz.....
Loading linux..... ready.
█
```

- **Login Page :**



A screenshot of a PuTTY terminal window titled "COM41 - PuTTY". The terminal displays the text "Q-Balancer Console" and "Login:" followed by a green cursor.

```
COM41 - PuTTY
Q-Balancer Console
Login: █
```

Accessing the CLI via console port using a laptop

- Command Line
ssh/console
- ssh:admin/(the root password of GUI)
Console:admin/admin_96

