

MeshCentral2



What is it?

"MeshCentral, a full web based remote management web site you can launch on your own server"

Competitors

Teamviewer	proprietary, expensive, compatibility issues
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DWService	Easy, fast, free, not completely open source
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Guacamole	Open source, free, client-less, requires port-forwards and stuff
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X2go	opensource, requires port- forwarding & client side apps
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Features

Features continued

- Multi-user
- Let's Encrypt support
- Give timed access for support to other people.
- Uses Yubikey
- Customise the interface with company logo and titles
- Compatible with OperWRT devices like the GL.iNet GL-AR750S-Ext

GL.iNet



GL.iNet GL-AR750S-Ext (Slate) Gigabit Travel AC VPN Router, 300Mbps(2.4G)+433Mbps(5G) Wi-Fi, 128MB RAM, MicroSD Support, Repeater Bridge, OpenWrt/LEDE pre-Installed, Cloudflare DNS, Power Adapter and Cables Included

[Visit the GL.iNet Store](#)

★★★★☆ 1,134 ratings | 5 answered questions

Price: **\$98.48** & **FREE Delivery**. [Details](#)

- [DUAL BAND AC WIRELESS ROUTER] Simultaneous dual band with wireless speed 300Mbps(2.4G)+433Mbps(5G). Tethering (not available on iOS14) , 3G/4G USB Modem Compatible. Convert a public network(wired/wireless) to a private Wi-Fi for secure surfing.
- [OPEN SOURCE & PROGRAMMABLE] OpenWrt/LEDE pre-installed, backed by software repository.
- [VPN CLIENT & SERVER] OpenVPN and WireGuard pre-installed, compatible with 30+ VPN service providers.
- [LARGER STORAGE & EXTENSIBILITY] 128MB RAM, 16MB NOR Flash and 128MB NAND Flash, up to 128GB MicroSD slot, USB 2.0 port, three Gigabit Ethernet ports (1 WAN and 2 LAN).
- [PACKAGE CONTENTS] GL-AR750S-Ext (Slate) router with 1-year limited warranty, power adapter, USB cable, Ethernet cable and user manual. Please update to the latest firmware from the following link before using: <https://dl.gl-inet.com/firmware/ar750s/release/>

\$98.48

& **FREE Delivery**

Arrives: 2:00 PM
Fastest delivery
Order with

In stock

Quantity:



Secure

Ships from
Sold by

[Details](#)

Enjoy €

Feature: Intel AMT

- Access Intel Active Management Tech (AMT) allows access to BIOS and boot menus.
- separate microprocessor used to monitor, maintain, update, upgrade, and repair servers
- AMT is built into PCs with Intel vPro technology

Checking Intel AMT

- Check locally: <https://github.com/mjg59/mei-amt-check>
- Check with nmap:
<https://www.cyberciti.biz/faq/how-to-check-whether-amt-is-enabled-and-provisioned-under-linux/>

Requirements

Sever Node v10+

Client MeshAgent (open source)

Hosted solution

Ref: <https://meshcentral.com/>

- No server installation required
- Recommend setting up your own server

Self Host Server Installation

```
npm install meshcentral
```

NOTE: Do not use sudo on this command!

Run

First run

```
node ./node_modules/meshcentral
```

Ctrl+c

Then create the certificate

```
node ./node_modules/meshcentral --cert <your domain>
```

Interface

My Devices

MeshCentral

Welcome Logout

My Devices

Select AllGroup ActionFilterAll OS Name

SortGroup

> Clients [Add](#) [CIRA](#) [Add Agent](#) [Invite](#)1 node

> Dad [Add](#) [CIRA](#) [Add Agent](#) [Invite](#)3 nodes

> Family [Add](#) [CIRA](#) [Add Agent](#) [Invite](#)2 nodes

> Home [Add](#) [CIRA](#) [Add Agent](#) [Invite](#)3 nodes

☐ **BB-8**
Agent, Powered

☐ **CarPI KIT**
Agent, Powered

☐ **picroft**
Agent, Powered

> Work [Add](#) [CIRA](#) [Add Agent](#) [Invite](#)7 nodes

[Add Device Group](#) [MeshCmd](#)

Terms & Privacy

My Account

MeshCentral

Welcome [Logout](#)



My Account



Account security

[Manage authenticator app](#)
[Manage security keys](#)



Account actions

[Localization Settings](#)
[Notification Settings](#)
[Change email address](#)
[Change password](#)
[Delete account](#)



Device Groups ([New](#))



Clients

Full Administrator



Work

Full Administrator



Dad

Full Administrator



Family

Full Administrator



Home







Full Administrator




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My Events



MeshCentralWelcome [Logout](#)





My Events

Show Last 60 

10/19/2020

 10:25:12 AM  USER → BB-8 → Ended file management session "yqaq76ms9y" from SERVER IP to CLIENT IP 16 second(s)







 10:24:55 AM  → BB-8 → Started remote files without notification (SERVER IP)

[Terms & Privacy](#)

My Files

MeshCentral

Welcome [Logout](#)



My Files

Up

Select All

Rename

Delete

New Folder

Upload

Cut

Copy

Paste

Root

Sort by name ▾

☐ My Files

☐ Clients

☐ Dad


☐ Family







☐ Home

☐ Work

[Terms & Privacy](#)

My Users

MeshCentralWelcome  [Logout](#)



Users

Groups

My Users


Select All



Group Action

New Account...

Filter

Broadcast



	Name	Device Groups	Last Access	Permissions
Online Users				
<input type="checkbox"/>	 [REDACTED]	5	2 sessions	Administrator
Offline Users				
<input type="checkbox"/>	 [REDACTED]	2	10/16/2020	User

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My Server







MeshCentralWelcome [Logout](#)

General

Stats

Console

Trace




My Server


Server actions

- [Download server backup](#)
- [Restore server with backup](#)
- [Check server version](#)
- [Show server error log](#)

Server Statistics




CPU Load
2.14, 2.3, 2.55



Available Memory
54.7 Gb free, 76.8 Gb total

Server State

User Accounts	2	Device Groups	5	Agent Sessions	14	Connected Users	1	Users Sessions	2
Relay Sessions	0	Relay Count	0	Connected Intel® AMT	0				



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Add to startup

```
node ~/node_modules/meshcentral --install  
sudo systemctl enable meshcentral.service  
sudo systemctl start meshcentral.service  
sudo systemctl status meshcentral.service
```

Manually

Add to /etc/systemd/system/meshcentral.service

```
[Unit]
Description=MeshCentral Server
[Service]
Type=simple
LimitNOFILE=1000000
ExecStart=/usr/bin/node /home/<user>/node_modules/meshcentral
WorkingDirectory=/home/<user>
Environment=NODE_ENV=production
User=<user>
Group=<user>
Restart=always
# Restart service after 10 seconds if node service crashes
RestartSec=10
# Set port permissions capability
AmbientCapabilities=cap_net_bind_service

[Install]
WantedBy=multi-user.target
```

Running non-standard port

By default it runs on 80 & 443

Edit ~/meshcentral-data/config.json remove the '_' from port and set to 1025

```
"port": 1025,  
"cert": "<your domain>"
```

NOTE: Remember to port forward through your firewall.

Updating

```
npm update meshcentral  
sudo systemctl restart meshcentral.service
```

Client: Installation

Two ways

- Add Agent
- Invite

Add Agent

Done through the admin login

1. Login
2. Click Add Agent on the group
3. Select OS
4. Download
5. Run

Invite

For clients who don't have access to your
MeshCentral

1. Login
2. Click Invite on the group
3. Select Link Expiration
4. Copy link
5. Send to your client via an email
6. Run on client machine

After install

The client should automatically appear no refresh required.

Allow users

- Add users to manage a group or just certain computers
- Access levels include
 - Remote control
 - Files
 - Wake
 - Edit
 - Uninstall
 - Remote commands
 - Reboot/Power off
 - Etc

Client operations

General

MeshCentral

Welcome [Logout](#)

GeneralDesktopTerminalFilesEventsDetailsConsole

General - BB-8 - Home

Group[Home](#)

DescriptionNone [✎](#)

Mesh AgentLinux 64bit

Operating Systemubilinux 4

Active Userkodi

User ConsentNone [✎](#)

TagsNone [✎](#)

Actions

Notes

Log Event

Message

Share

Day7 Day Power State

10/19/2020	
10/18/2020	
10/17/2020	
10/16/2020	
10/15/2020	
10/14/2020	
10/13/2020	

[Interfaces](#) [MeshCmd](#) [noVNC](#)

[Change Group](#) [Delete Device](#)

[Add User](#)

User Authorizations

No users with special device permissions

Desktop

MeshCentral

Welcome Logout


GeneralDesktopTerminalFilesEventsDetailsConsole

Desktop - BB-8 - Home

DisconnectConnected

Videos

Sort by: Date 3 / 30



The Pteranodon family learns more about the customs of their neighbours, the Lambeosaurus family, when they're invited to accompany them to the Big Pond to celebrate "Gourd Day"- a kind of Mesozoic Halloween.
Expires: Sun, 15 Nov 2020

Options

Dinosaur Train: Festival Of Lights

Dinosaur Train: Don's Winter Wish

Dinosaur Train: Big Pond Pumpkin

Dinosaur Train: Haunted Roundhouse

Dinosaur Train: Rafting The Cretaceous

Dinosaur Train: Hurricane at Pteranodon Terrace

Dinosaur Train: Big Misty Sea Fishing Contest

Dinosaur Train: Dry Times At Pteranodon Terrace

Dinosaur Train: The Lost Bird

Dinosaur Train: The Forest Fire

Dinosaur Train: The Nursery Car

Dinosaur Train: The Earthquake

Dinosaur Train: Tiny's Garden

Dinosaur Train: That's Not A Dinosaur

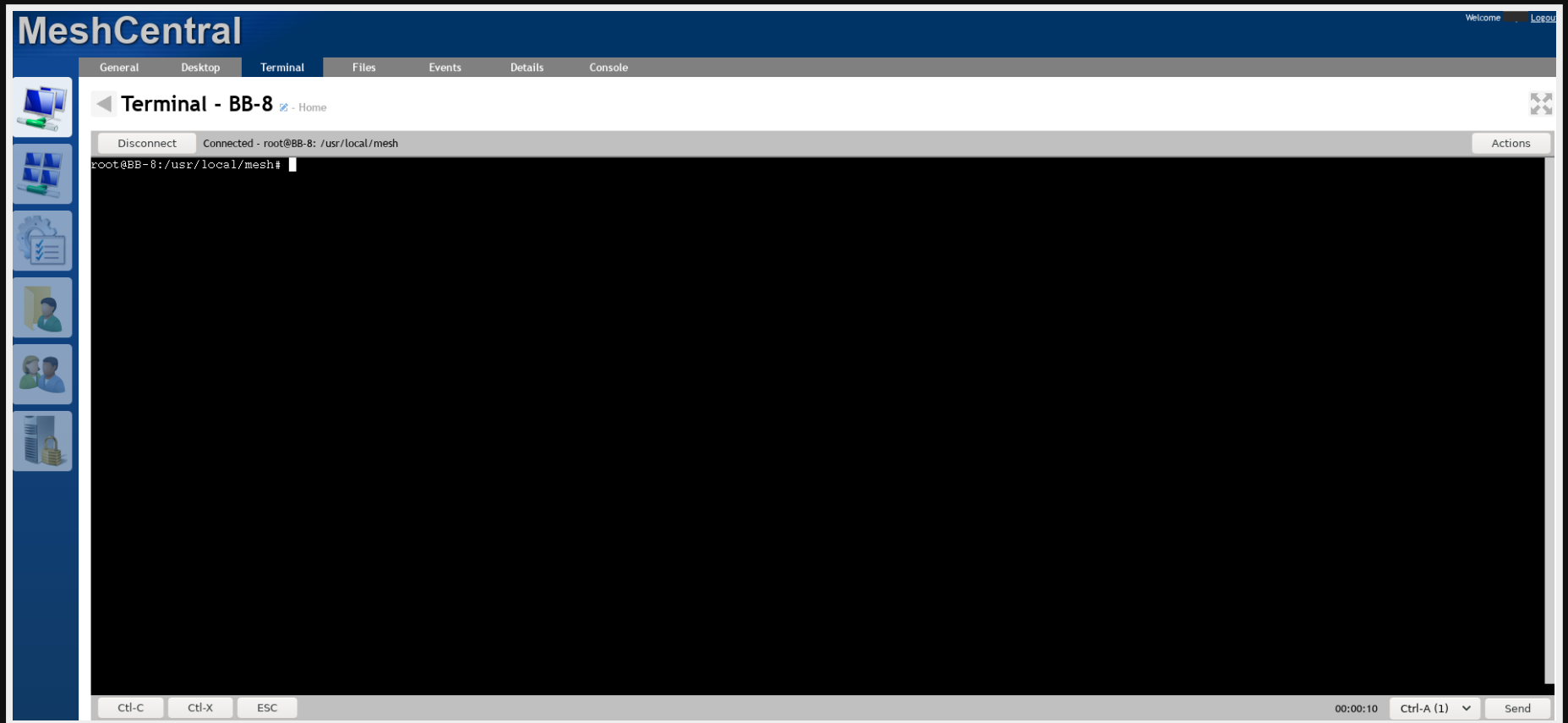
10:24

12°C

12:142.0AAC720 HD

00:00:27Tools

Terminal



Files

MeshCentral

Welcome [Logout](#)

GeneralDesktopTerminalFilesEventsDetailsConsole

Files - BB-8 [Home](#)

DisconnectConnectedActions

UpSelect AllRenameDeleteEditNew FolderUploadCutCopyPasteZipRefresh

RootSort by name

☐ bin

☐ boot

☐ dev

☐ etc

☐ home

☐ lib

☐ lib32

☐ lib64

☐ lost+found

☐ media

☐ mnt

☐ opt

☐ proc

☐ root

☐ run

☐ sbin

☐ srv

☐ sys

☐ tmp

☐ usr

☐ var

☐ initrd.img

☐ initrd.img.old

☐ vmlinuz

☐ vmlinuz.old

31776521 bytes8/9/2019, 6:16:04 AM

28368912 bytes8/9/2019, 6:16:17 AM

4933392 bytes4/20/2018, 6:13:03 AM

4086112 bytes9/9/2017, 5:59:29 AM

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Events

MeshCentral

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GeneralDesktopTerminalFilesEventsDetailsConsole

Events - BB-8 - Home

ShowLast 60

10/19/2020

10:25:12 AM

USER

Ended file management session "yuaq76ms9y" from SERVER IP to CLIENT IP 16 second(s)

10:24:55 AM

Started remote files without notification

Terms & Privacy

Details

MeshCentral

WelcomeLogout

GeneralDesktopTerminalFilesEventsDetailsConsole

Details - BB-8 - Home

Operating System

Name

BB-8

Version

ubinux 4

Mesh Agent

Mesh Agent

Linux 64bit

Last agent connection

Connected now

Last agent address

Networking

enp2s0

MAC Layer

MAC: 00:07:32: [REDACTED]

IPv4 Layer

IP: 10.1.1.10, Mask: 255.255.255.0, Gateway: 10.1.1.1

IPv6 Layer

IP: [REDACTED]

enp3s0

MAC Layer

MAC: 00:07:32:49:6E:7F

BIOS

Vendor

American Megatrends Inc.

Version

UPA1AM46

Motherboard

Vendor

AAEON

Name

UP-APL01

Serial

Default string

Version

V0.4

Identifier

03000200-0400-0500-0006-000700080009

CPU

Intel® Pentium® CPU N4200 @ 1.10GHz

GPU

Intel Corporation Celeron N3350/Pentium N4200/Atom E3900 Series Integrated Graphics Controller (rev 0b)

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Console

MeshCentral

Welcome [Logout](#)

GeneralDesktopTerminalFilesEventsDetailsConsole

Console - BB-8 - Home

Agent is onlineMeshCore CRC-637793491Agent Action

Clear

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Tested

- Raspberry PI OS (buster)
- FreeBSD 11.2 (64bit)
- Debian 10 & Testing
- Linux Mint 17 -> 20
- Ubuntu 20.04
- Windows 7

Issues

- Some systems don't refresh straight away in GUI mode Ref: [Ylianst/MeshCentral#1898](#)
Desktop blank until refreshed
- Multiple screens are hard to see (tested with 3 screens on remote system)

References

- <https://github.com/Ylianst/MeshCentral>
- <https://www.meshcommander.com/meshcentral>
- <https://www.npmjs.com/package/meshcentral>
- <http://info.meshcentral.com/downloads/MeshCe>

Questions

Email	map7777@gmail.com
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Twitter	@map7
---------	--

Github	github: map7
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