

# CUBIENETES

## #APPOPS #DEVOPELMENT

### Cubieboard2

I chose the Cubieboard2 as it comes with SATA and gigabit ethernet. It is a dual-core ARM7 chip (and Allwinner A20) with 1GB of RAM. There is a 4GB NAND flash MTD device on the back.

### 3d Printed brackets

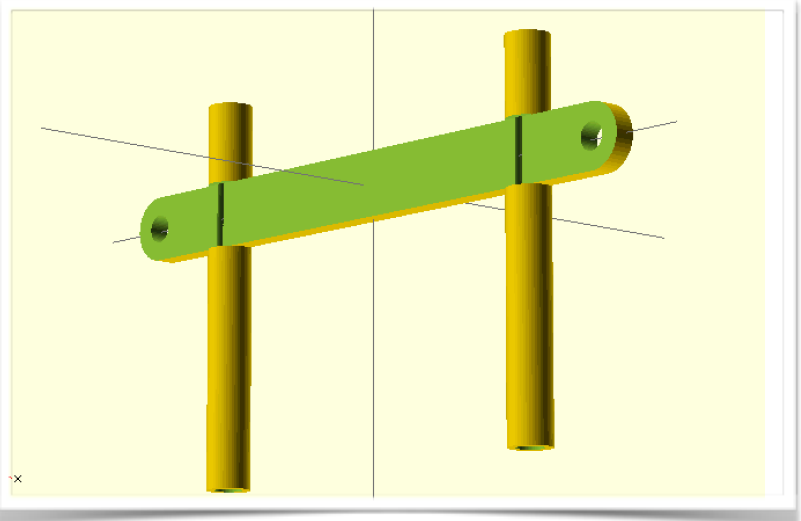
The brackets were designed in OpenSCAD and 3D printed on Shapeways.

### Ansible

The GitHub repo <https://github.com/tomwilkie/cubienetes> has ansible playbooks for provisioning the cluster with docker, kubernetes etc

### NAT routing & WiFi

The top board has a WiFi dongle and is configured to do NAT, DHCP & DNS for the other boards, so they all have internet access. Which is useful for installing packages.



## K8s on Cubieboard2

A 5-node Kubernetes cluster running on Cubieboard2.

5 x Cubieboard2 £48.95

1 x NETGEAR GS108UK 8-Port Gigabit Ethernet Unmanaged Switch £24.97

1 x Anker 40W 5-Port USB Charger

5 x Short Black 0.25M Ethernet Cable £1.81

1 x Kingston MobileLite G4 USB 3.0 Multi Card Reader £7.12

2 x 1000mm M3 threaded rod £2.54

2 x M3 Full Nut (50 Pack) £1.40

2 x M3 Washer 3.2mm (50 Pack) £1.65

10 x Custom 3D-printed HD brackets £3.50

5 x Transcend 128GB SATA III SSD360 128GB £56.50

