

No.	Time	Source	Destination	Protocol	Length	Info
2124	141.890544	0.0.0.0	255.255.255.255	DHCP	342	DHCP Discover - Transaction ID 0x7106b7c4

Frame 2124: 342 bytes on wire (2736 bits), 342 bytes captured (2736 bits) on interface \Device\NPF\_{3553785E-C747-409E-8EF8-F89CD953EE3F}, id 0

Interface id: 0 (\Device\NPF\_{3553785E-C747-409E-8EF8-F89CD953EE3F})  
Interface name: \Device\NPF\_{3553785E-C747-409E-8EF8-F89CD953EE3F}  
Interface description: Wi-Fi  
Encapsulation type: Ethernet (1)  
Arrival Time: Nov 8, 2021 09:52:25.455411000 Pacific Standard Time  
[Time shift for this packet: 0.000000000 seconds]  
Epoch Time: 1636393945.455411000 seconds  
[Time delta from previous captured frame: 0.169342000 seconds]  
[Time delta from previous displayed frame: 3.197387000 seconds]  
[Time since reference or first frame: 141.890544000 seconds]  
Frame Number: 2124  
Frame Length: 342 bytes (2736 bits)  
Capture Length: 342 bytes (2736 bits)  
[Frame is marked: False]  
[Frame is ignored: False]  
[Protocols in frame: eth:ethertype:ip:udp:dhcp]  
[Coloring Rule Name: UDP]  
[Coloring Rule String: udp]

Ethernet II, Src: IntelCor\_b8:d8:00 (ac:ed:5c:b8:d8:00), Dst: Broadcast (ff:ff:ff:ff:ff:ff)  
Destination: Broadcast (ff:ff:ff:ff:ff:ff)  
Address: Broadcast (ff:ff:ff:ff:ff:ff)  
.... ..1. .... = LG bit: Locally administered address (this is NOT the factory default)  
.... ...1. .... = IG bit: Group address (multicast/broadcast)  
Source: IntelCor\_b8:d8:00 (ac:ed:5c:b8:d8:00)  
Address: IntelCor\_b8:d8:00 (ac:ed:5c:b8:d8:00)  
.... ..0. .... = LG bit: Globally unique address (factory default)  
.... ...0. .... = IG bit: Individual address (unicast)  
Type: IPv4 (0x0800)

Internet Protocol Version 4, Src: 0.0.0.0, Dst: 255.255.255.255  
0100 .... = Version: 4  
.... 0101 = Header Length: 20 bytes (5)  
Differentiated Services Field: 0x00 (DSCP: CS0, ECN: Not-ECT)  
0000 00.. = Differentiated Services Codepoint: Default (0)  
.... ..00 = Explicit Congestion Notification: Not ECN-Capable Transport (0)  
Total Length: 328  
Identification: 0xbcd0 (48336)  
Flags: 0x00  
0... .... = Reserved bit: Not set  
.0.. .... = Don't fragment: Not set  
..0. .... = More fragments: Not set  
Fragment Offset: 0  
Time to Live: 128  
Protocol: UDP (17)  
Header Checksum: 0x7cd5 [validation disabled]  
[Header checksum status: Unverified]  
Source Address: 0.0.0.0  
Destination Address: 255.255.255.255

User Datagram Protocol, Src Port: 68, Dst Port: 67  
Source Port: 68  
Destination Port: 67  
Length: 308  
Checksum: 0x6c84 [unverified]  
[Checksum Status: Unverified]  
[Stream index: 83]  
[Timestamps]  
[Time since first frame: 3.197387000 seconds]  
[Time since previous frame: 3.197387000 seconds]  
UDP payload (300 bytes)

Dynamic Host Configuration Protocol (Discover)  
Message type: Boot Request (1)  
Hardware type: Ethernet (0x01)  
Hardware address length: 6  
Hops: 0  
Transaction ID: 0x7106b7c4  
Seconds elapsed: 0  
Bootp flags: 0x0000 (Unicast)  
0... .... = Broadcast flag: Unicast  
.000 0000 0000 0000 = Reserved flags: 0x0000  
Client IP address: 0.0.0.0  
Your (client) IP address: 0.0.0.0  
Next server IP address: 0.0.0.0  
Relay agent IP address: 0.0.0.0  
Client MAC address: IntelCor\_b8:d8:00 (ac:ed:5c:b8:d8:00)  
Client hardware address padding: 00000000000000000000  
Server host name not given  
Boot file name not given

```
Magic cookie: DHCP
Option: (53) DHCP Message Type (Discover)
  Length: 1
  DHCP: Discover (1)
Option: (61) Client identifier
  Length: 7
  Hardware type: Ethernet (0x01)
  Client MAC address: IntelCor_b8:d8:00 (ac:ed:5c:b8:d8:00)
Option: (50) Requested IP Address (192.168.0.16)
  Length: 4
  Requested IP Address: 192.168.0.16
Option: (12) Host Name
  Length: 3
  Host Name: P71
Option: (60) Vendor class identifier
  Length: 8
  Vendor class identifier: MSFT 5.0
Option: (55) Parameter Request List
  Length: 14
  Parameter Request List Item: (1) Subnet Mask
  Parameter Request List Item: (3) Router
  Parameter Request List Item: (6) Domain Name Server
  Parameter Request List Item: (15) Domain Name
  Parameter Request List Item: (31) Perform Router Discover
  Parameter Request List Item: (33) Static Route
  Parameter Request List Item: (43) Vendor-Specific Information
  Parameter Request List Item: (44) NetBIOS over TCP/IP Name Server
  Parameter Request List Item: (46) NetBIOS over TCP/IP Node Type
  Parameter Request List Item: (47) NetBIOS over TCP/IP Scope
  Parameter Request List Item: (119) Domain Search
  Parameter Request List Item: (121) Classless Static Route
  Parameter Request List Item: (249) Private/Classless Static Route (Microsoft)
  Parameter Request List Item: (252) Private/Proxy autodiscovery
Option: (255) End
  Option End: 255
Padding: 00000000000000000000
0000 ff ff ff ff ff ff ac ed 5c b8 d8 00 08 00 45 00 .....\.....E.
0010 01 48 bc d0 00 00 80 11 7c d5 00 00 00 00 ff ff .H.....|.....
0020 ff ff 00 44 00 00 43 01 34 6c 84 01 01 06 00 71 06 ...D.C.4l....q.
0030 b7 c4 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
0040 00 00 00 00 00 00 00 ac ed 5c b8 d8 00 00 00 00 .....\.
0050 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
0060 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
0070 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
0080 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
0090 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
00a0 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
00b0 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
00c0 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
00d0 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
00e0 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
00f0 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
0100 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
0110 00 00 00 00 00 00 63 82 53 63 35 01 01 3d 07 01 .....c.Sc5..=.
0120 ac ed 5c b8 d8 00 32 04 c0 a8 00 10 0c 03 50 37 ..\...2.....P7
0130 31 3c 08 4d 53 46 54 20 35 2e 30 37 0e 01 03 06 1<.MSFT 5.07...
0140 0f 1f 21 2b 2c 2e 2f 77 79 f9 fc ff 00 00 00 00 ..!+,./wy.....
0150 00 00 00 00 00 00 .....

```

No.	Time	Source	Destination	Protocol	Length	Info
2125	141.892872	192.168.0.1	192.168.0.16	DHCP	352	DHCP Offer - Transaction ID 0x7106b7c4

Frame 2125: 352 bytes on wire (2816 bits), 352 bytes captured (2816 bits) on interface \Device\NPF\_{3553785E-C747-409E-8EF8-F89CD953EE3F}, id 0

Interface id: 0 (\Device\NPF\_{3553785E-C747-409E-8EF8-F89CD953EE3F})  
Interface name: \Device\NPF\_{3553785E-C747-409E-8EF8-F89CD953EE3F}  
Interface description: Wi-Fi  
Encapsulation type: Ethernet (1)  
Arrival Time: Nov 8, 2021 09:52:25.457739000 Pacific Standard Time  
[Time shift for this packet: 0.000000000 seconds]  
Epoch Time: 1636393945.457739000 seconds  
[Time delta from previous captured frame: 0.002328000 seconds]  
[Time delta from previous displayed frame: 0.002328000 seconds]  
[Time since reference or first frame: 141.892872000 seconds]  
Frame Number: 2125  
Frame Length: 352 bytes (2816 bits)  
Capture Length: 352 bytes (2816 bits)  
[Frame is marked: False]  
[Frame is ignored: False]  
[Protocols in frame: eth:ethertype:ip:udp:dhcp]  
[Coloring Rule Name: UDP]  
[Coloring Rule String: udp]

Ethernet II, Src: SmartRG\_43:cd:95 (e8:2c:6d:43:cd:95), Dst: IntelCor\_b8:d8:00 (ac:ed:5c:b8:d8:00)  
Destination: IntelCor\_b8:d8:00 (ac:ed:5c:b8:d8:00)  
Address: IntelCor\_b8:d8:00 (ac:ed:5c:b8:d8:00)  
.... ..0. .... = LG bit: Globally unique address (factory default)  
.... ...0 .... = IG bit: Individual address (unicast)  
Source: SmartRG\_43:cd:95 (e8:2c:6d:43:cd:95)  
Address: SmartRG\_43:cd:95 (e8:2c:6d:43:cd:95)  
.... ..0. .... = LG bit: Globally unique address (factory default)  
.... ...0 .... = IG bit: Individual address (unicast)  
Type: IPv4 (0x0800)

Internet Protocol Version 4, Src: 192.168.0.1, Dst: 192.168.0.16  
0100 .... = Version: 4  
.... 0101 = Header Length: 20 bytes (5)  
Differentiated Services Field: 0x00 (DSCP: CS0, ECN: Not-ECT)  
0000 00.. = Differentiated Services Codepoint: Default (0)  
.... ..00 = Explicit Congestion Notification: Not ECN-Capable Transport (0)  
Total Length: 338  
Identification: 0xdead (57005)  
Flags: 0x00  
0... .... = Reserved bit: Not set  
.0.. .... = Don't fragment: Not set  
..0. .... = More fragments: Not set  
Fragment Offset: 0  
Time to Live: 128  
Protocol: UDP (17)  
Header Checksum: 0xd98b [validation disabled]  
[Header checksum status: Unverified]  
Source Address: 192.168.0.1  
Destination Address: 192.168.0.16

User Datagram Protocol, Src Port: 67, Dst Port: 68  
Source Port: 67  
Destination Port: 68  
Length: 318  
Checksum: 0xaf42 [unverified]  
[Checksum Status: Unverified]  
[Stream index: 12]  
[Timestamps]  
[Time since first frame: 107.782003000 seconds]  
[Time since previous frame: 19.633434000 seconds]  
UDP payload (310 bytes)

Dynamic Host Configuration Protocol (Offer)  
Message type: Boot Reply (2)  
Hardware type: Ethernet (0x01)  
Hardware address length: 6  
Hops: 0  
Transaction ID: 0x7106b7c4  
Seconds elapsed: 0  
Bootp flags: 0x0000 (Unicast)  
0... .... = Broadcast flag: Unicast  
.000 0000 0000 0000 = Reserved flags: 0x0000  
Client IP address: 0.0.0.0  
Your (client) IP address: 192.168.0.16  
Next server IP address: 192.168.0.1  
Relay agent IP address: 0.0.0.0  
Client MAC address: IntelCor\_b8:d8:00 (ac:ed:5c:b8:d8:00)  
Client hardware address padding: 00000000000000000000  
Server host name not given  
Boot file name not given

```
Magic cookie: DHCP
Option: (53) DHCP Message Type (Offer)
  Length: 1
  DHCP: Offer (2)
Option: (1) Subnet Mask (255.255.255.0)
  Length: 4
  Subnet Mask: 255.255.255.0
Option: (2) Time Offset
  Length: 4
  Time Offset: (0s) 0 seconds
Option: (3) Router
  Length: 4
  Router: 192.168.0.1
Option: (23) Default IP Time-to-Live
  Length: 1
  Default IP Time-to-Live: 64
Option: (51) IP Address Lease Time
  Length: 4
  IP Address Lease Time: (3600s) 1 hour
Option: (54) DHCP Server Identifier (192.168.0.1)
  Length: 4
  DHCP Server Identifier: 192.168.0.1
Option: (58) Renewal Time Value
  Length: 4
  Renewal Time Value: (1800s) 30 minutes
Option: (59) Rebinding Time Value
  Length: 4
  Rebinding Time Value: (3150s) 52 minutes, 30 seconds
Option: (6) Domain Name Server
  Length: 8
  Domain Name Server: 209.90.170.72
  Domain Name Server: 216.254.136.227
Option: (15) Domain Name
  Length: 9
  Domain Name: primus.ca
Option: (255) End
  Option End: 255
0000  ac ed 5c b8 d8 00 e8 2c 6d 43 cd 95 08 00 45 00  ..\....,mC....E.
0010  01 52 de ad 00 00 80 11 d9 8b c0 a8 00 01 c0 a8  .R.....
0020  00 10 00 43 00 44 01 3e af 42 02 01 06 00 71 06  ...C.D.>.B....q.
0030  b7 c4 00 00 00 00 00 00 00 00 c0 a8 00 10 c0 a8  .....
0040  00 01 00 00 00 00 ac ed 5c b8 d8 00 00 00 00 00  .....\.
0050  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00  .....
0060  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00  .....
0070  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00  .....
0080  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00  .....
0090  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00  .....
00a0  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00  .....
00b0  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00  .....
00c0  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00  .....
00d0  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00  .....
00e0  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00  .....
00f0  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00  .....
0100  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00  .....
0110  00 00 00 00 00 00 63 82 53 63 35 01 02 01 04 ff  ....c.Sc5....
0120  ff ff 00 02 04 00 00 00 00 03 04 c0 a8 00 01 17  .....
0130  01 40 33 04 00 00 0e 10 36 04 c0 a8 00 01 3a 04  .@3.....6.....:
0140  00 00 07 08 3b 04 00 00 0c 4e 06 08 d1 5a aa 48  ....;....N...Z.H
0150  d8 fe 88 e3 0f 09 70 72 69 6d 75 73 2e 63 61 ff  ....primus.ca.
```

No.	Time	Source	Destination	Protocol	Length	Info
2126	141.893440	0.0.0.0	255.255.255.255	DHCP	346	DHCP Request - Transaction ID 0x7106b7c4

Frame 2126: 346 bytes on wire (2768 bits), 346 bytes captured (2768 bits) on interface \Device\NPF\_{3553785E-C747-409E-8EF8-F89CD953EE3F}, id 0

Interface id: 0 (\Device\NPF\_{3553785E-C747-409E-8EF8-F89CD953EE3F})  
Interface name: \Device\NPF\_{3553785E-C747-409E-8EF8-F89CD953EE3F}  
Interface description: Wi-Fi  
Encapsulation type: Ethernet (1)  
Arrival Time: Nov 8, 2021 09:52:25.458307000 Pacific Standard Time  
[Time shift for this packet: 0.000000000 seconds]  
Epoch Time: 1636393945.458307000 seconds  
[Time delta from previous captured frame: 0.000568000 seconds]  
[Time delta from previous displayed frame: 0.000568000 seconds]  
[Time since reference or first frame: 141.893440000 seconds]  
Frame Number: 2126  
Frame Length: 346 bytes (2768 bits)  
Capture Length: 346 bytes (2768 bits)  
[Frame is marked: False]  
[Frame is ignored: False]  
[Protocols in frame: eth:ethertype:ip:udp:dhcp]  
[Coloring Rule Name: UDP]  
[Coloring Rule String: udp]

Ethernet II, Src: IntelCor\_b8:d8:00 (ac:ed:5c:b8:d8:00), Dst: Broadcast (ff:ff:ff:ff:ff:ff)  
Destination: Broadcast (ff:ff:ff:ff:ff:ff)  
Address: Broadcast (ff:ff:ff:ff:ff:ff)  
.... ..1. .... = LG bit: Locally administered address (this is NOT the factory default)  
.... ...1 .... = IG bit: Group address (multicast/broadcast)  
Source: IntelCor\_b8:d8:00 (ac:ed:5c:b8:d8:00)  
Address: IntelCor\_b8:d8:00 (ac:ed:5c:b8:d8:00)  
.... ..0. .... = LG bit: Globally unique address (factory default)  
.... ...0 .... = IG bit: Individual address (unicast)  
Type: IPv4 (0x0800)

Internet Protocol Version 4, Src: 0.0.0.0, Dst: 255.255.255.255  
0100 .... = Version: 4  
.... 0101 = Header Length: 20 bytes (5)  
Differentiated Services Field: 0x00 (DSCP: CS0, ECN: Not-ECT)  
0000 00.. = Differentiated Services Codepoint: Default (0)  
.... ..00 = Explicit Congestion Notification: Not ECN-Capable Transport (0)  
Total Length: 332  
Identification: 0xbcd1 (48337)  
Flags: 0x00  
0... .... = Reserved bit: Not set  
.0.. .... = Don't fragment: Not set  
..0. .... = More fragments: Not set  
Fragment Offset: 0  
Time to Live: 128  
Protocol: UDP (17)  
Header Checksum: 0x7cd0 [validation disabled]  
[Header checksum status: Unverified]  
Source Address: 0.0.0.0  
Destination Address: 255.255.255.255

User Datagram Protocol, Src Port: 68, Dst Port: 67  
Source Port: 68  
Destination Port: 67  
Length: 312  
Checksum: 0xec45 [unverified]  
[Checksum Status: Unverified]  
[Stream index: 83]  
[Timestamps]  
[Time since first frame: 3.200283000 seconds]  
[Time since previous frame: 0.002896000 seconds]  
UDP payload (304 bytes)

Dynamic Host Configuration Protocol (Request)  
Message type: Boot Request (1)  
Hardware type: Ethernet (0x01)  
Hardware address length: 6  
Hops: 0  
Transaction ID: 0x7106b7c4  
Seconds elapsed: 0  
Bootp flags: 0x0000 (Unicast)  
0... .... = Broadcast flag: Unicast  
.000 0000 0000 0000 = Reserved flags: 0x0000  
Client IP address: 0.0.0.0  
Your (client) IP address: 0.0.0.0  
Next server IP address: 0.0.0.0  
Relay agent IP address: 0.0.0.0  
Client MAC address: IntelCor\_b8:d8:00 (ac:ed:5c:b8:d8:00)  
Client hardware address padding: 00000000000000000000  
Server host name not given  
Boot file name not given

```
Magic cookie: DHCP
Option: (53) DHCP Message Type (Request)
  Length: 1
  DHCP: Request (3)
Option: (61) Client identifier
  Length: 7
  Hardware type: Ethernet (0x01)
  Client MAC address: IntelCor_b8:d8:00 (ac:ed:5c:b8:d8:00)
Option: (50) Requested IP Address (192.168.0.16)
  Length: 4
  Requested IP Address: 192.168.0.16
Option: (54) DHCP Server Identifier (192.168.0.1)
  Length: 4
  DHCP Server Identifier: 192.168.0.1
Option: (12) Host Name
  Length: 3
  Host Name: P71
Option: (81) Client Fully Qualified Domain Name
  Length: 6
  Flags: 0x00
    0000 .... = Reserved flags: 0x0
    .... 0... = Server DDNS: Some server updates
    .... .0.. = Encoding: ASCII encoding
    .... ..0. = Server overrides: No override
    .... ...0 = Server: Client
  A-RR result: 0
  PTR-RR result: 0
  Client name: P71
Option: (60) Vendor class identifier
  Length: 8
  Vendor class identifier: MSFT 5.0
Option: (55) Parameter Request List
  Length: 14
  Parameter Request List Item: (1) Subnet Mask
  Parameter Request List Item: (3) Router
  Parameter Request List Item: (6) Domain Name Server
  Parameter Request List Item: (15) Domain Name
  Parameter Request List Item: (31) Perform Router Discover
  Parameter Request List Item: (33) Static Route
  Parameter Request List Item: (43) Vendor-Specific Information
  Parameter Request List Item: (44) NetBIOS over TCP/IP Name Server
  Parameter Request List Item: (46) NetBIOS over TCP/IP Node Type
  Parameter Request List Item: (47) NetBIOS over TCP/IP Scope
  Parameter Request List Item: (119) Domain Search
  Parameter Request List Item: (121) Classless Static Route
  Parameter Request List Item: (249) Private/Classless Static Route (Microsoft)
  Parameter Request List Item: (252) Private/Proxy autodiscovery
Option: (255) End
Option End: 255
0000  ff ff ff ff ff ff ac ed 5c b8 d8 00 08 00 45 00  .....\.....E.
0010  01 4c bc d1 00 00 80 11 7c d0 00 00 00 00 ff ff  .L.....|.
0020  ff ff 00 44 00 43 01 38 ec 45 01 01 06 00 71 06  ...D.C.8.E...q.
0030  b7 c4 00 00 00 00 00 00 00 00 00 00 00 00 00  .....
0040  00 00 00 00 00 00 ac ed 5c b8 d8 00 00 00 00 00  .....\.
0050  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00  .....
0060  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00  .....
0070  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00  .....
0080  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00  .....
0090  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00  .....
00a0  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00  .....
00b0  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00  .....
00c0  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00  .....
00d0  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00  .....
00e0  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00  .....
00f0  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00  .....
0100  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00  .....
0110  00 00 00 00 00 00 63 82 53 63 35 01 03 3d 07 01  .....c.Sc5..=.
0120  ac ed 5c b8 d8 00 32 04 c0 a8 00 10 36 04 c0 a8  ..\...2....6...
0130  00 01 0c 03 50 37 31 51 06 00 00 00 50 37 31 3c  ...P71Q...P71<
0140  08 4d 53 46 54 20 35 2e 30 37 0e 01 03 06 0f 1f  .MSFT 5.07.....
0150  21 2b 2c 2e 2f 77 79 f9 fc ff  !+,. /wy...
```

No.	Time	Source	Destination	Protocol	Length	Info
2132	142.897385	192.168.0.1	192.168.0.16	DHCP	352	DHCP ACK - Transaction ID 0x7106b7c4

Frame 2132: 352 bytes on wire (2816 bits), 352 bytes captured (2816 bits) on interface \Device\NPF\_{3553785E-C747-409E-8EF8-F89CD953EE3F}, id 0

Interface id: 0 (\Device\NPF\_{3553785E-C747-409E-8EF8-F89CD953EE3F})  
Interface name: \Device\NPF\_{3553785E-C747-409E-8EF8-F89CD953EE3F}  
Interface description: Wi-Fi  
Encapsulation type: Ethernet (1)  
Arrival Time: Nov 8, 2021 09:52:26.462252000 Pacific Standard Time  
[Time shift for this packet: 0.000000000 seconds]  
Epoch Time: 1636393946.462252000 seconds  
[Time delta from previous captured frame: 0.037487000 seconds]  
[Time delta from previous displayed frame: 1.003945000 seconds]  
[Time since reference or first frame: 142.897385000 seconds]  
Frame Number: 2132  
Frame Length: 352 bytes (2816 bits)  
Capture Length: 352 bytes (2816 bits)  
[Frame is marked: False]  
[Frame is ignored: False]  
[Protocols in frame: eth:ethertype:ip:udp:dhcp]  
[Coloring Rule Name: UDP]  
[Coloring Rule String: udp]

Ethernet II, Src: SmartRG\_43:cd:95 (e8:2c:6d:43:cd:95), Dst: IntelCor\_b8:d8:00 (ac:ed:5c:b8:d8:00)  
Destination: IntelCor\_b8:d8:00 (ac:ed:5c:b8:d8:00)  
Address: IntelCor\_b8:d8:00 (ac:ed:5c:b8:d8:00)  
.... ..0. .... = LG bit: Globally unique address (factory default)  
.... ...0 .... = IG bit: Individual address (unicast)  
Source: SmartRG\_43:cd:95 (e8:2c:6d:43:cd:95)  
Address: SmartRG\_43:cd:95 (e8:2c:6d:43:cd:95)  
.... ..0. .... = LG bit: Globally unique address (factory default)  
.... ...0 .... = IG bit: Individual address (unicast)  
Type: IPv4 (0x0800)

Internet Protocol Version 4, Src: 192.168.0.1, Dst: 192.168.0.16  
0100 .... = Version: 4  
.... 0101 = Header Length: 20 bytes (5)  
Differentiated Services Field: 0x00 (DSCP: CS0, ECN: Not-ECT)  
0000 00.. = Differentiated Services Codepoint: Default (0)  
.... ..00 = Explicit Congestion Notification: Not ECN-Capable Transport (0)  
Total Length: 338  
Identification: 0xdead (57005)  
Flags: 0x00  
0... .... = Reserved bit: Not set  
.0.. .... = Don't fragment: Not set  
..0. .... = More fragments: Not set  
Fragment Offset: 0  
Time to Live: 128  
Protocol: UDP (17)  
Header Checksum: 0xd98b [validation disabled]  
[Header checksum status: Unverified]  
Source Address: 192.168.0.1  
Destination Address: 192.168.0.16

User Datagram Protocol, Src Port: 67, Dst Port: 68  
Source Port: 67  
Destination Port: 68  
Length: 318  
Checksum: 0xac42 [unverified]  
[Checksum Status: Unverified]  
[Stream index: 12]  
[Timestamps]  
[Time since first frame: 108.786516000 seconds]  
[Time since previous frame: 1.004513000 seconds]  
UDP payload (310 bytes)

Dynamic Host Configuration Protocol (ACK)  
Message type: Boot Reply (2)  
Hardware type: Ethernet (0x01)  
Hardware address length: 6  
Hops: 0  
Transaction ID: 0x7106b7c4  
Seconds elapsed: 0  
Bootp flags: 0x0000 (Unicast)  
0... .... = Broadcast flag: Unicast  
.000 0000 0000 0000 = Reserved flags: 0x0000  
Client IP address: 0.0.0.0  
Your (client) IP address: 192.168.0.16  
Next server IP address: 192.168.0.1  
Relay agent IP address: 0.0.0.0  
Client MAC address: IntelCor\_b8:d8:00 (ac:ed:5c:b8:d8:00)  
Client hardware address padding: 00000000000000000000  
Server host name not given  
Boot file name not given

```
Magic cookie: DHCP
Option: (53) DHCP Message Type (ACK)
  Length: 1
  DHCP: ACK (5)
Option: (1) Subnet Mask (255.255.255.0)
  Length: 4
  Subnet Mask: 255.255.255.0
Option: (2) Time Offset
  Length: 4
  Time Offset: (0s) 0 seconds
Option: (3) Router
  Length: 4
  Router: 192.168.0.1
Option: (23) Default IP Time-to-Live
  Length: 1
  Default IP Time-to-Live: 64
Option: (51) IP Address Lease Time
  Length: 4
  IP Address Lease Time: (3600s) 1 hour
Option: (54) DHCP Server Identifier (192.168.0.1)
  Length: 4
  DHCP Server Identifier: 192.168.0.1
Option: (58) Renewal Time Value
  Length: 4
  Renewal Time Value: (1800s) 30 minutes
Option: (59) Rebinding Time Value
  Length: 4
  Rebinding Time Value: (3150s) 52 minutes, 30 seconds
Option: (6) Domain Name Server
  Length: 8
  Domain Name Server: 209.90.170.72
  Domain Name Server: 216.254.136.227
Option: (15) Domain Name
  Length: 9
  Domain Name: primus.ca
Option: (255) End
  Option End: 255
0000  ac ed 5c b8 d8 00 e8 2c 6d 43 cd 95 08 00 45 00  ..\....,mC....E.
0010  01 52 de ad 00 00 80 11 d9 8b c0 a8 00 01 c0 a8  .R.....
0020  00 10 00 43 00 44 01 3e ac 42 02 01 06 00 71 06  ...C.D.>.B....q.
0030  b7 c4 00 00 00 00 00 00 00 00 c0 a8 00 10 c0 a8  .....
0040  00 01 00 00 00 00 ac ed 5c b8 d8 00 00 00 00 00  .....\.
0050  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00  .....
0060  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00  .....
0070  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00  .....
0080  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00  .....
0090  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00  .....
00a0  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00  .....
00b0  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00  .....
00c0  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00  .....
00d0  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00  .....
00e0  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00  .....
00f0  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00  .....
0100  00 00 00 00 00 00 00 00 00 00 00 00 00 00 00  .....
0110  00 00 00 00 00 00 63 82 53 63 35 01 05 01 04 ff  ....c.Sc5....
0120  ff ff 00 02 04 00 00 00 00 03 04 c0 a8 00 01 17  .....
0130  01 40 33 04 00 00 0e 10 36 04 c0 a8 00 01 3a 04  .@3.....6.....:
0140  00 00 07 08 3b 04 00 00 0c 4e 06 08 d1 5a aa 48  ....;....N...Z.H
0150  d8 fe 88 e3 0f 09 70 72 69 6d 75 73 2e 63 61 ff  ....primus.ca.
```