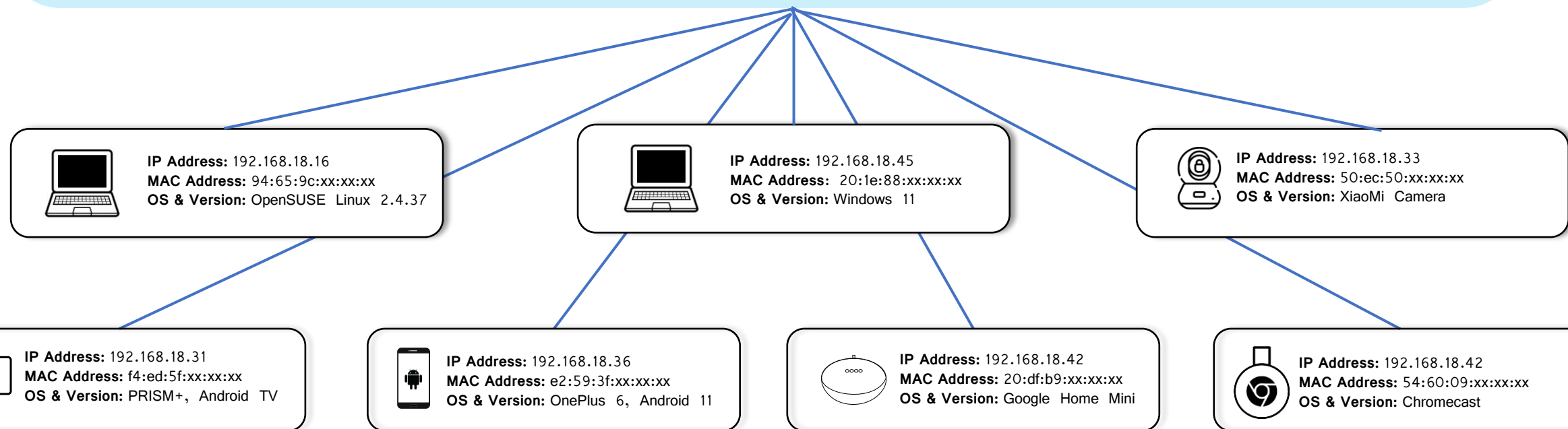
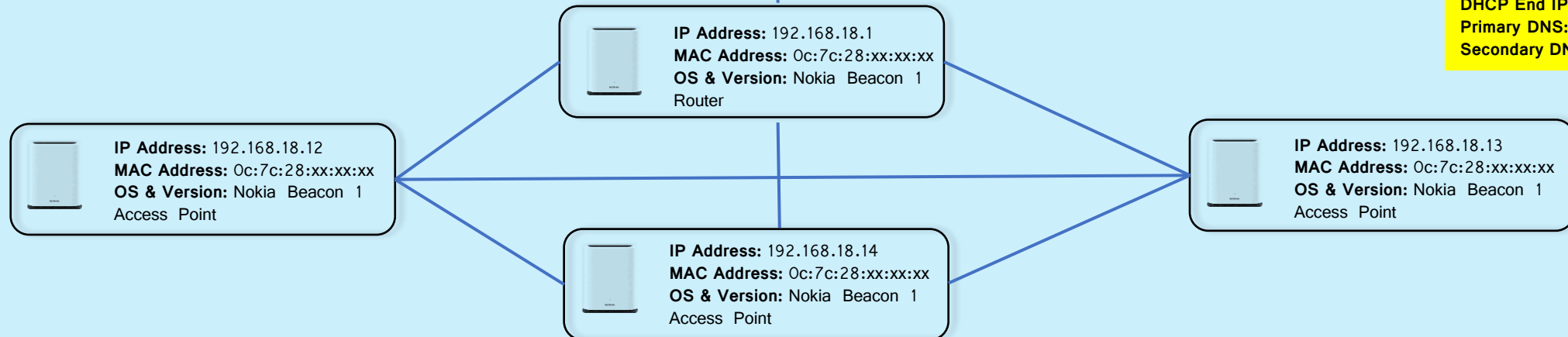




**LAN Details**  
**IP Address:** 192.168.18.1  
**Subnet:** 255.255.255.0  
**DHCP Start IP:** 192.168.18.2  
**DHCP End IP:** 192.168.18.253  
**Primary DNS:** 8.8.8.8  
**Secondary DNS:** 8.8.4.4



# Ping Nokia Beacon 1 Router (192.168.18.1)

```
Pinging 192.168.18.1 with 32 bytes of data:
Reply from 192.168.18.1: bytes=32 time=4ms TTL=64
Reply from 192.168.18.1: bytes=32 time=2ms TTL=64
Reply from 192.168.18.1: bytes=32 time=3ms TTL=64
Reply from 192.168.18.1: bytes=32 time=3ms TTL=64

Ping statistics for 192.168.18.1:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 2ms, Maximum = 4ms, Average = 3ms
```

icmp						
No.	Time	Source	Destination	Protocol	Length	Info
26	3.839080	192.168.18.45	192.168.18.1	ICMP	74	Echo (ping) request id=0x0001, seq=171/43776, ttl=128 (reply in 27)
27	3.843088	192.168.18.1	192.168.18.45	ICMP	74	Echo (ping) reply id=0x0001, seq=171/43776, ttl=64 (request in 26)
28	4.850877	192.168.18.45	192.168.18.1	ICMP	74	Echo (ping) request id=0x0001, seq=172/44032, ttl=128 (reply in 29)
29	4.853427	192.168.18.1	192.168.18.45	ICMP	74	Echo (ping) reply id=0x0001, seq=172/44032, ttl=64 (request in 28)
32	5.863910	192.168.18.45	192.168.18.1	ICMP	74	Echo (ping) request id=0x0001, seq=173/44288, ttl=128 (reply in 33)
33	5.867424	192.168.18.1	192.168.18.45	ICMP	74	Echo (ping) reply id=0x0001, seq=173/44288, ttl=64 (request in 32)
38	6.878407	192.168.18.45	192.168.18.1	ICMP	74	Echo (ping) request id=0x0001, seq=174/44544, ttl=128 (reply in 39)
39	6.881485	192.168.18.1	192.168.18.45	ICMP	74	Echo (ping) reply id=0x0001, seq=174/44544, ttl=64 (request in 38)

> Frame 26: 74 bytes on wire (592 bits), 74 bytes captured (592 bits) on interface \Device\NPF\_{9069B925-8864-4849-929A-2580A8B4446D}, id 0

< Ethernet II, Src: IntelCor\_42:37:9a (20:1e:88:42:37:9a), Dst: NokiaSol\_84:57:43 (0c:7c:28:84:57:43)

> Destination: NokiaSol\_84:57:43 (0c:7c:28:84:57:43)

> Source: IntelCor\_42:37:9a (20:1e:88:42:37:9a)

Type: IPv4 (0x0800)

> Internet Protocol Version 4, Src: 192.168.18.45, Dst: 192.168.18.1

> Internet Control Message Protocol

# Ping Other Device – OpenSUSE Linux Laptop (192.168.18.16)

```
Pinging 192.168.18.16 with 32 bytes of data:
Reply from 192.168.18.16: bytes=32 time=2ms TTL=64
Reply from 192.168.18.16: bytes=32 time=3ms TTL=64
Reply from 192.168.18.16: bytes=32 time=2ms TTL=64
Reply from 192.168.18.16: bytes=32 time=2ms TTL=64

Ping statistics for 192.168.18.16:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 2ms, Maximum = 3ms, Average = 2ms
```

icmp

No.	Time	Source	Destination	Protocol	Length	Info
47	5.919903	192.168.18.45	192.168.18.16	ICMP	74	Echo (ping) request id=0x0001, seq=175/44800, ttl=128 (reply in 48)
48	5.922267	192.168.18.16	192.168.18.45	ICMP	74	Echo (ping) reply id=0x0001, seq=175/44800, ttl=64 (request in 47)
55	6.925850	192.168.18.45	192.168.18.16	ICMP	74	Echo (ping) request id=0x0001, seq=176/45056, ttl=128 (reply in 56)
56	6.929048	192.168.18.16	192.168.18.45	ICMP	74	Echo (ping) reply id=0x0001, seq=176/45056, ttl=64 (request in 55)
69	7.937863	192.168.18.45	192.168.18.16	ICMP	74	Echo (ping) request id=0x0001, seq=177/45312, ttl=128 (reply in 70)
70	7.940127	192.168.18.16	192.168.18.45	ICMP	74	Echo (ping) reply id=0x0001, seq=177/45312, ttl=64 (request in 69)
74	8.949037	192.168.18.45	192.168.18.16	ICMP	74	Echo (ping) request id=0x0001, seq=178/45568, ttl=128 (reply in 75)
75	8.951524	192.168.18.16	192.168.18.45	ICMP	74	Echo (ping) reply id=0x0001, seq=178/45568, ttl=64 (request in 74)

> Frame 47: 74 bytes on wire (592 bits), 74 bytes captured (592 bits) on interface \Device\NPF\_{9069B925-8864-4849-929A-2580A8B4446D}, id 0

> Ethernet II, Src: IntelCor\_42:37:9a (20:1e:88:42:37:9a), Dst: IntelCor\_97:9a:aa (94:65:9c:97:9a:aa)

> Destination: IntelCor\_97:9a:aa (94:65:9c:97:9a:aa)

> Source: IntelCor\_42:37:9a (20:1e:88:42:37:9a)

Type: IPv4 (0x0800)

> Internet Protocol Version 4, Src: 192.168.18.45, Dst: 192.168.18.16

> Internet Control Message Protocol

# Ping cnn.com & capture 3-way handshake

```
C:\Users\Dreamcore>ping cnn.com

Pinging cnn.com [151.101.65.67] with 32 bytes of data:
Reply from 151.101.65.67: bytes=32 time=4ms TTL=60
Reply from 151.101.65.67: bytes=32 time=6ms TTL=60
Reply from 151.101.65.67: bytes=32 time=3ms TTL=60
Reply from 151.101.65.67: bytes=32 time=7ms TTL=60

Ping statistics for 151.101.65.67:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 3ms, Maximum = 7ms, Average = 5ms
```

ip.src == 151.101.1.67

Packet list Narrow & Wide Case sensitive Display filter tcp Find Cancel

No.	Time	Source	Destination	Protocol	Length	Info
5	0.332456	151.101.1.67	192.168.18.45	TCP	66	80 → 56343 [ACK] Seq=1 Ack=2 Win=290 Len=0 SLE=1 SRE=2
117	4.135774	151.101.1.67	192.168.18.45	TCP	66	443 → 56362 [ACK] Seq=1 Ack=2 Win=292 Len=0 SLE=1 SRE=2
218	10.339040	151.101.1.67	192.168.18.45	TCP	66	[TCP Keep-Alive ACK] 80 → 56343 [ACK] Seq=1 Ack=2 Win=290 Len=0 SLE=1 SRE=2
267	14.151385	151.101.1.67	192.168.18.45	TCP	66	[TCP Keep-Alive ACK] 443 → 56362 [ACK] Seq=1 Ack=2 Win=292 Len=0 SLE=1 SRE=2
329	16.121709	151.101.1.67	192.168.18.45	TCP	66	80 → 58221 [SYN, ACK] Seq=0 Ack=1 Win=65535 Len=0 MSS=1412 SACK_PERM=1
336	16.133397	151.101.1.67	192.168.18.45	TCP	66	443 → 58222 [SYN, ACK] Seq=0 Ack=1 Win=65535 Len=0 MSS=1412 SACK_PERM=1
339	16.140691	151.101.1.67	192.168.18.45	TCP	54	443 → 58222 [ACK] Seq=1 Ack=567 Win=147456 Len=0
344	16.149320	151.101.1.67	192.168.18.45	TCP	54	443 → 58222 [ACK] Seq=151 Ack=618 Win=147456 Len=0
345	16.149320	151.101.1.67	192.168.18.45	TCP	54	443 → 58222 [ACK] Seq=151 Ack=618 Win=147456 Len=0

> Frame 117: 66 bytes on wire (528 bits), 66 bytes captured (528 bits) on interface \Device\NPF\_{9069B925-8864-4849-929A-2580A8B4446D}, id 0

> Ethernet II, Src: NokiaSol\_84:57:43 (0c:7c:28:84:57:43), Dst: IntelCor\_42:37:9a (20:1e:88:42:37:9a)

> Internet Protocol Version 4, Src: 151.101.1.67, Dst: 192.168.18.45

> Transmission Control Protocol, Src Port: 443, Dst Port: 56362, Seq: 1, Ack: 2, Len: 0

Source Port: 443

Destination Port: 56362

[Stream index: 7]

[Conversation completeness: Incomplete (12)]

[TCP Segment Len: 0]

Sequence Number: 1 (relative sequence number)

Sequence Number (raw): 156963414

[Next Sequence Number: 1 (relative sequence number)]

Acknowledgment Number: 2 (relative ack number)

Acknowledgment number (raw): 2159518488

1000 .... = Header Length: 32 bytes (8)

Current filter: icmp

No.	Time	Source	Destination	Protocol	Length	Info
112	7.150400	192.168.18.45	151.101.65.67	ICMP	74	Echo (ping) request id=0x0001, seq=179/45824, ttl=128 (reply in 113)
113	7.154390	151.101.65.67	192.168.18.45	ICMP	74	Echo (ping) reply id=0x0001, seq=179/45824, ttl=60 (request in 112)
118	8.159947	192.168.18.45	151.101.65.67	ICMP	74	Echo (ping) request id=0x0001, seq=180/46080, ttl=128 (reply in 119)
119	8.166778	151.101.65.67	192.168.18.45	ICMP	74	Echo (ping) reply id=0x0001, seq=180/46080, ttl=60 (request in 118)
122	9.169120	192.168.18.45	151.101.65.67	ICMP	74	Echo (ping) request id=0x0001, seq=181/46336, ttl=128 (reply in 123)
123	9.172941	151.101.65.67	192.168.18.45	ICMP	74	Echo (ping) reply id=0x0001, seq=181/46336, ttl=60 (request in 122)
127	10.179052	192.168.18.45	151.101.65.67	ICMP	74	Echo (ping) request id=0x0001, seq=182/46592, ttl=128 (reply in 128)
128	10.186400	151.101.65.67	192.168.18.45	ICMP	74	Echo (ping) reply id=0x0001, seq=182/46592, ttl=60 (request in 127)

> Frame 112: 74 bytes on wire (592 bits), 74 bytes captured (592 bits) on interface \Device\NPF\_{9069B925-8864-4849-929A-2580A8B4446D}, id 0

> Ethernet II, Src: IntelCor\_42:37:9a (20:1e:88:42:37:9a), Dst: NokiaSol\_84:57:43 (0c:7c:28:84:57:43)

> Destination: NokiaSol\_84:57:43 (0c:7c:28:84:57:43)

> Address: NokiaSol\_84:57:43 (0c:7c:28:84:57:43)

> .... 0. .... = LG bit: Globally unique address (factory default)

> .... 0. .... = IG bit: Individual address (unicast)

> Source: IntelCor\_42:37:9a (20:1e:88:42:37:9a)

> Address: IntelCor\_42:37:9a (20:1e:88:42:37:9a)

> .... 0. .... = LG bit: Globally unique address (factory default)

> .... 0. .... = IG bit: Individual address (unicast)

> Type: IPv4 (0x0800)