## Dæmi 1.

Skiptið netinu 192.168.1.0/24 upp í 4 net, finnið network address, fyrstu nothæfu, síðustu nothæfu og broadcast tölu fyrir hvert net ásamt subnet mask.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Net nr. | Network addr. | Fyrsta nothæfa | Síðasta nothæfa | Broadcast addr. | Subnet mask |
| 1 | 192.168.1.0/26 | 192.168.1.1 | 192.168.1.62 | 192.168.1.63 | 255.255.255.192 |
| 2 | 192.168.1.64/26 | 192.168.1.65 | 192.168.1.126 | 192.168.1.127 | 255.255.255.192 |
| 3 | 192.168.1.128/26 | 192.168.1.129 | 192.168.1.190 | 192.168.1.191 | 255.255.255.192 |
| 4 | 192.168.1.192/26 | 192.168.1.193 | 192.168.1.254 | 192.168.1.255 | 255.255.255.192 |

## Dæmi 2

Skiptið netinu 192.168.1.0/24 upp í 8 net, finnið network address, fyrstu nothæfu, síðustu nothæfu og broadcast tölu fyrir hvert net ásamt subnet mask.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Net nr. | Network addr. | Fyrsta nothæfa | Síðasta nothæfa | Broadcast addr. | Subnet mask |
| 1 | 192.168.1.0/27 | 192.168.1.1 | 192.168.1.30 | 192.168.1.31 | 255.255.255.224 |
| 2 | 192.168.1.32/27 | 192.168.1.33 | 192.168.1.62 | 192.168.1.63 | 255.255.255.224 |
| 3 | 192.168.1.64/27 | 192.168.1.65 | 192.168.1.94 | 192.168.1.95 | 255.255.255.224 |
| 4 | 192.168.1.96/27 | 192.168.1.97 | 192.168.1.126 | 192.168.1.127 | 255.255.255.224 |
| 5 | 192.168.1.128/27 | 192.168.1.129 | 192.168.1.158 | 192.168.1.159 | 255.255.255.224 |
| 6 | 192.168.1.160/27 | 192.168.1.161 | 192.168.1.190 | 192.168.1.191 | 255.255.255.224 |
| 7 | 192.168.1.192/27 | 192.168.1.193 | 192.168.1.222 | 192.168.1.223 | 255.255.255.224 |
| 8 | 192.168.1.224/27 | 192.168.1.225 | 192.168.1.254 | 192.168.1.255 | 255.255.255.224 |

## Dæmi 3

Skiptið netinu 192.168.1.0/25 upp í 4 net, finnið network address, fyrstu nothæfu, síðustu nothæfu og broadcast tölu fyrir hvert net ásamt subnet mask.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Net nr. | Network addr. | Fyrsta nothæfa | Síðasta nothæfa | Broadcast addr. | Subnet mask |
| 1 | 192.168.1.0/27 | 192.168.1.1 | 192.168.1.30 | 192.168.1.31 | 255.255.255.224 |
| 2 | 192.168.1.32/27 | 192.168.1.33 | 192.168.1.62 | 192.168.1.63 | 255.255.255.224 |
| 3 | 192.168.1.64/27 | 192.168.1.65 | 192.168.1.94 | 192.168.1.95 | 255.255.255.224 |
| 4 | 192.168.1.96/27 | 192.168.1.97 | 192.168.1.126 | 192.168.1.127 | 255.255.255.224 |

## Dæmi 4

Skiptið netinu 192.168.1.64/26 upp í 4 net, finnið network address, fyrstu nothæfu, síðustu nothæfu og broadcast tölu fyrir hvert net ásamt subnet mask.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Net nr. | Network addr. | Fyrsta nothæfa | Síðasta nothæfa | Broadcast addr. | Subnet mask |
| 1 | 192.168.1.64/28 | 192.168.1.65 | 192.168.1.78 | 192.168.1.79 | 255.255.255.240 |
| 2 | 192.168.1.80/28 | 192.168.1.81 | 192.168.1.94 | 192.168.1.95 | 255.255.255.240 |
| 3 | 192.168.1.96/28 | 192.168.1.97 | 192.168.1.110 | 192.168.1.111 | 255.255.255.240 |
| 4 | 192.168.1.112/28 | 192.168.1.113 | 192.168.1.126 | 192.168.1.127 | 255.255.255.240 |

## Dæmi 5

Skiptið netinu 172.25.240.0/22 upp í 4 net, finnið network address, fyrstu nothæfu, síðustu nothæfu og broadcast tölu fyrir hvert net ásamt subnet mask.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Net nr. | Network addr. | Fyrsta nothæfa | Síðasta nothæfa | Broadcast addr. | Subnet mask |
| 1 | 172.25.240.0/24 | 172.25.240.1 | 172.25.240.254 | 172.25.240.255 | 255.255.255.0 |
| 2 | 172.25.241.0/24 | 172.25.241.1 | 172.25.241.254 | 172.25.240.255 | 255.255.255.0 |
| 3 | 172.25.242.0/24 | 172.25.242.1 | 172.25.242.254 | 172.25.242.255 | 255.255.255.0 |
| 4 | 172.25.243.0/24 | 172.25.243.0 | 172.25.243.254 | 172.25.243.255 | 255.255.255.0 |

## Dæmi 6

Skiptið netinu 172.25.240.0/23 upp í 4 net, finnið network address, fyrstu nothæfu, síðustu nothæfu og broadcast tölu fyrir hvert net ásamt subnet mask.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Net | Network addr. | Fyrsta nothæfa | Síðasta nothæfa | Broadcast addr. | Subnet mask |
| 1 | 172.25.240.0/25 | 172.25.240.1 | 172.25.240.126 | 172.25.240.127 | 255.255.255.128 |
| 2 | 172.25.240.128/25 | 172.25.240.129 | 172.25.240.254 | 172.25.240.255 | 255.255.255.128 |
| 3 | 172.25.241.0/25 | 172.25.241.1 | 172.25.241.126 | 172.25.241.127 | 255.255.255.128 |
| 4 | 172.25.241.128/25 | 172.25.241.129 | 172.25.241.254 | 172.25.241.255 | 255.255.255.128 |

## Dæmi 7

Skiptið netinu 172.25.240.0/22 upp í 8 net, finnið network address, fyrstu nothæfu, síðustu nothæfu og broadcast tölu fyrir hvert net ásamt subnet mask.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Net | Network addr. | Fyrsta nothæfa | Síðasta nothæfa | Broadcast addr. | Subnet mask |
| 1 | 172.25.240.0/25 | 172.25.240.1 | 172.25.240.126 | 172.25.240.127 | 255.255.255.128 |
| 2 | 172.25.240.128/25 | 172.25.240.129 | 172.25.240.254 | 172.25.240.255 | 255.255.255.128 |
| 3 | 172.25.241.0/25 | 172.25.241.1 | 172.25.241.126 | 172.25.241.127 | 255.255.255.128 |
| 4 | 172.25.241.128/25 | 172.25.241.129 | 172.25.241.254 | 172.25.241.255 | 255.255.255.128 |
| 5 | 172.25.242.0/25 | 172.25.242.1 | 172.25.242.126 | 172.25.242.127 | 255.255.255.128 |
| 6 | 172.25.242.128/25 | 172.25.242.129 | 172.25.242.254 | 172.25.242.255 | 255.255.255.128 |
| 7 | 172.25.243.0/25 | 172.25.243.1 | 172.25.243.126 | 172.25.243.127 | 255.255.255.128 |
| 8 | 172.25.243.128/25 | 172.25.243.129 | 172.25.243.254 | 172.25.243.255 | 255.255.255.128 |

## Dæmi 8

Skiptið netinu 172.25.254.0/23 upp í 8 net, finnið network address, fyrstu nothæfu, síðustu nothæfu og broadcast tölu fyrir hvert net ásamt subnet mask.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Net | Network addr. | Fyrsta nothæfa | Síðasta nothæfa | Broadcast addr. | Subnet mask |
| 1 | 172.25.254.0/26 | 172.25.254.1 | 172.25.254.62 | 172.25.254.63 | 255.255.255.192 |
| 2 | 172.25.254.64/26 | 172.25.254.65 | 172.25.254.126 | 172.25.254.127 | 255.255.255.192 |
| 3 | 172.25.254.128/26 | 172.25.254.129 | 172.25.254.190 | 172.25.254.191 | 255.255.255.192 |
| 4 | 172.25.254.192/26 | 172.25.254.193 | 172.25.254.254 | 172.25.254.255 | 255.255.255.192 |
| 5 | 172.25.255.0/26 | 172.25.255.1 | 172.25.255.62 | 172.25.255.63 | 255.255.255.192 |
| 6 | 172.25.255.64/26 | 172.25.255.65 | 172.25.255.126 | 172.25.255.127 | 255.255.255.192 |
| 7 | 172.25.255.128/26 | 172.25.255.129 | 172.25.255.190 | 172.25.255.191 | 255.255.255.192 |
| 8 | 172.25.255.192/26 | 172.25.255.193 | 172.25.255.254 | 172.25.255.255 | 255.255.255.192 |

## Dæmi 9

Skiptið netinu 192.168.2.0/24 upp í 4 net. Takið svo þriðja netið úr þeirri skiptingu og skiptið því upp í tvö net. Finnið network address, fyrstu nothæfu, síðustu nothæfu og broadcast tölu fyrir hvert net ásamt subnet mask.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Net nr. | Network addr. | Fyrsta nothæfa | Síðasta nothæfa | Broadcast addr. | Subnet mask |
| 1 | 192.168.2.0/26 | 192.168.2.1 | 192.168.2.62 | 192.168.2.63 | 255.255.255.192 |
| 2 | 192.168.2.64/26 | 192.168.2.65 | 192.168.2.126 | 192.168.2.127 | 255.255.255.192 |
| 3 | 192.168.2.128/26 | 192.168.2.129 | 192.168.2.190 | 192.168.2.191 | 255.255.255.192 |
| 3a | 192.168.2.128/27 | 192.168.2.129 | 192.168.2.158 | 192.168.2.159 | 255.255.255.224 |
| 3b | 192.168.2.160/27 | 192.168.2.161 | 192.168.2.190 | 192.168.2.191 | 255.255.255.224 |
| 4 | 192.168.2.192/26 | 192.168.2.193 | 192.168.2.254 | 192.168.2.255 | 255.255.255.192 |

## Dæmi 10

Skiptið netinu 192.168.2.0/25 upp í 4 net. Takið svo annað netið úr þeirri skiptingu og skiptið því upp í tvö net. Finnið network address, fyrstu nothæfu, síðustu nothæfu og broadcast tölu fyrir hvert net ásamt subnet mask.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Net nr. | Network addr. | Fyrsta nothæfa | Síðasta nothæfa | Broadcast addr. | Subnet mask |
| 1 | 192.168.2.0/27 | 192.168.2.1 | 192.168.2.30 | 192.168.2.31 | 255.255.255.224 |
| 2 | 192.168.2.32/27 | 192.168.2.33 | 192.168.2.62 | 192.168.2.63 | 255.255.255.224 |
| 2a | 192.168.2.32/28 | 192.168.2.33 | 192.168.2.46 | 192.168.2.47 | 255.255.255.240 |
| 2b | 192.168.2.48/28 | 192.168.2.49 | 192.168.2.62 | 192.168.2.63 | 255.255.255.240 |
| 3 | 192.168.2.64/27 | 192.168.2.65 | 192.168.2.94 | 192.168.2.95 | 255.255.255.224 |
| 4 | 192.168.2.96/27 | 192.168.2.97 | 192.168.2.126 | 192.168.2.127 | 255.255.255.224 |

## Dæmi 11

Skiptið netinu 172.29.200.0/21 upp í 4 net. Takið svo þriðja netið úr þeirri skiptingu og skiptið því upp í fjögur net. Finnið network address, fyrstu nothæfu, síðustu nothæfu og broadcast tölu fyrir hvert net ásamt subnet mask.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Net nr. | Network addr. | Fyrsta nothæfa | Síðasta nothæfa | Broadcast addr. | Subnet mask |
| 1 | 172.29.200.0/23 | 172.29.200.1 | 172.29.201.254 | 172.29.201.255 | 255.255.254.0 |
| 2 | 172.29.202.0/23 | 172.29.202.1 | 172.29.203.254 | 172.29.203.255 | 255.255.254.0 |
| 3 | 172.29.204.0/23 | 172.29.204.1 | 172.29.205.254 | 172.29.205.255 | 255.255.254.0 |
| 3a | 172.29.204.0/25 | 172.29.204.1 | 172.29.204.126 | 172.29.204.127 | 255.255.255.128 |
| 3b | 172.29.204.128/25 | 172.29.204.129 | 172.29.204.254 | 172.29.204.255 | 255.255.255.128 |
| 3c | 172.29.205.0/25 | 172.29.205.1 | 172.29.205.126 | 172.29.205.127 | 255.255.255.128 |
| 3d | 172.29.205.128/25 | 172.29.205.129 | 172.29.205.254 | 172.29.205.255 | 255.255.255.128 |
| 4 | 172.29.206.0/23 | 172.29.206.1 | 172.29.207.254 | 172.29.207.255 | 255.255.254.0 |