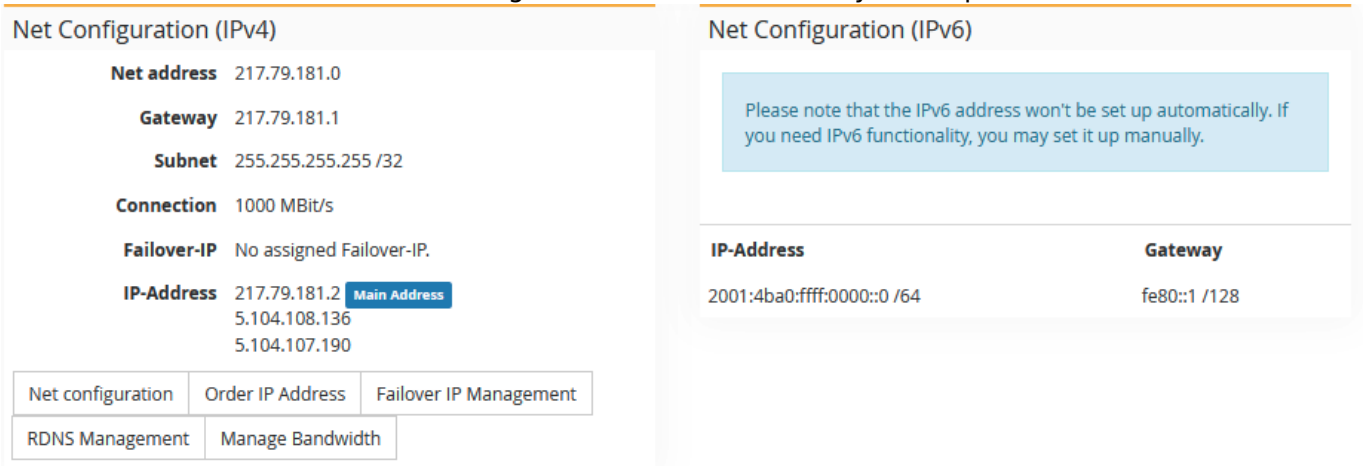
Network

What is my network configuration?

You will find the correct network configuration in the ZKM, with your respective contract:



Configuration examples
*** Important ***
For the sake of simplicity, we always call the interface "eth" or "eth0" in our example. Before changing your network configuration, please check the correct name, e.g. "ip a", before you change it.
*** Important ***

Ubuntu/Debian

```
# /etc/network/inerfaces


auto eth0

iface eth0 inet static

    address <IPv4 Adresse>

    netmask <Netmask>

    gateway <Ipv4 Gateway>

    pointopoint <Ipv4 Gateway>


iface eth0 inet6 static

   address <An IP from your /64 subnet>

   netmask 64

   gateway <IPv6 Gateway>
```

After the configuration has been adjusted, "/etc/init.d/networking restart" must be executed again to save the changes.

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Netplan example:

```
# /etc/netplan/config.yaml


network:
  version: 2
  renderer: networkd
  ethernets:
    eth0: #Interface-Name
      addresses:
        - <IPv4 address>/32 #Other as in the example possible
        - <IPv6 address>/64 # An address from your /64 IPv6 subnet
      gateway6: <IPv6 gateway> #IPv6 gateway
      nameservers:
          search: [ fuchsia.fastwebserver.de ]
          addresses:
              - "62.141.32.5" # Resolver 1
              - "62.141.32.4" # Resolver 2
              - "62.141.32.3" # Resolver 3
      routes:
      - to: 0.0.0.0/0
        via: <IPv4 Gateway> #Ipv4 Gateway
        on-link: true
```

Please note that the netplan only works if the spacing is correct, only spaces are allowed, no "tabs". After the configuration has been adjusted, "sudo netplan apply" must be run again to save the changes.

CentOS

```
# /etc/sysconfig/network-scripts/ifcfg-eth0

# The following must be included for IPv4:


DEVICE=eth0
```


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```
BOOTPROTO=none

ONBOOT=yes

IPADDR=<IP-Adresse>

NETMASK=<Netmaske>

GATEWAY=<IPv4 Gateway>


# For IPv6 the following must still be present:

IPV6_DEFAULTDEV=eth0

IPV6INIT=yes

IPV6ADDR=<IPV6 Adresse><Prefix z.B. /64>

IPV6_DEFAULTGW=<IPV6 Gateway>
```

Windows
to make the graphical settings in Windows, go to the following items:
IPv4: Network card properties => Internet Protocol, Version 4 (TCP/IPv4) => Properties
IPv6: Network card properties => Internet Protocol, Version 6 (TCP/IPv6) => Properties

There you can specify the IP address, netmask, gateway and DNS addresses. Under "Advanced" you can then specify additional IP addresses for the server, for example.

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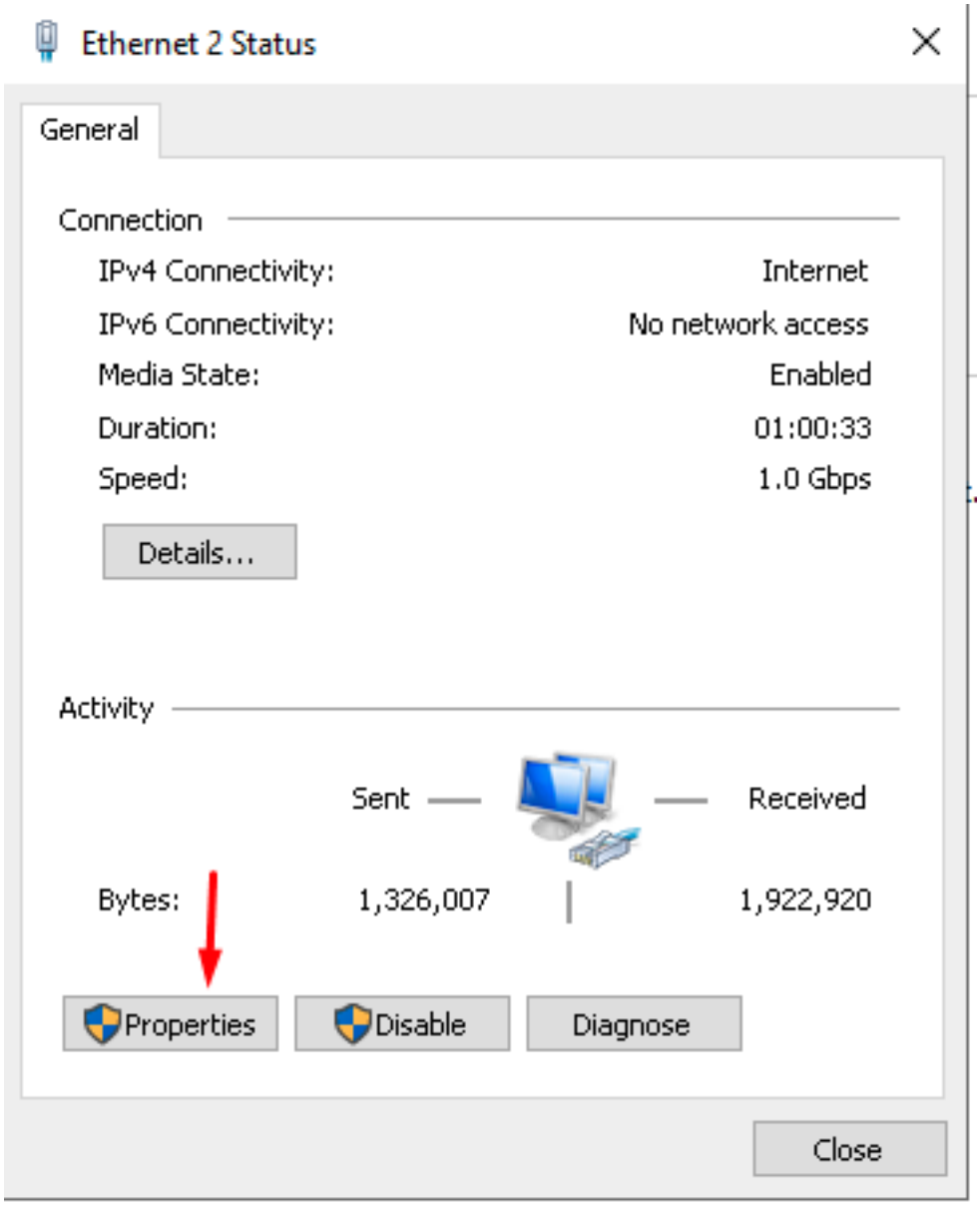

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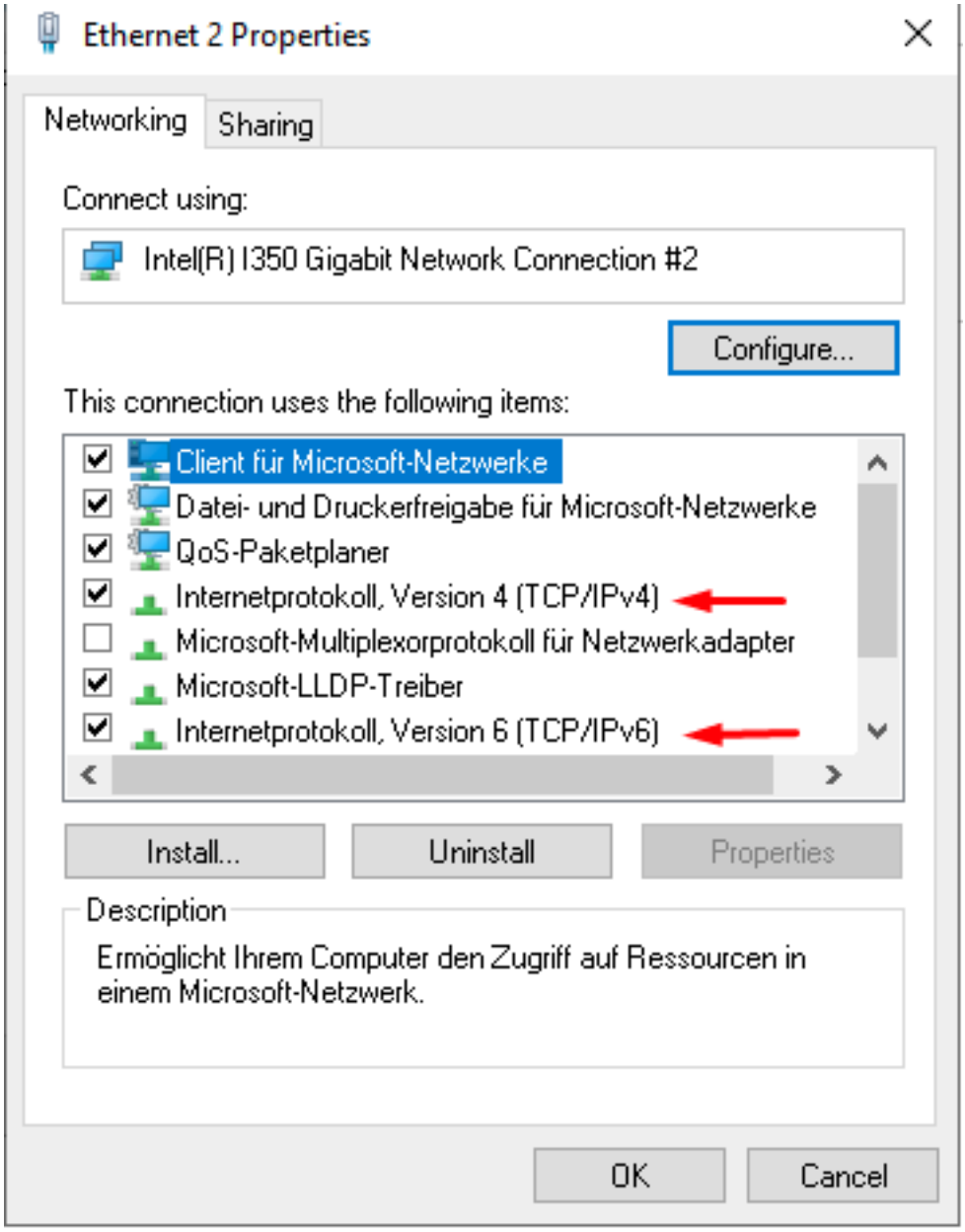
Network



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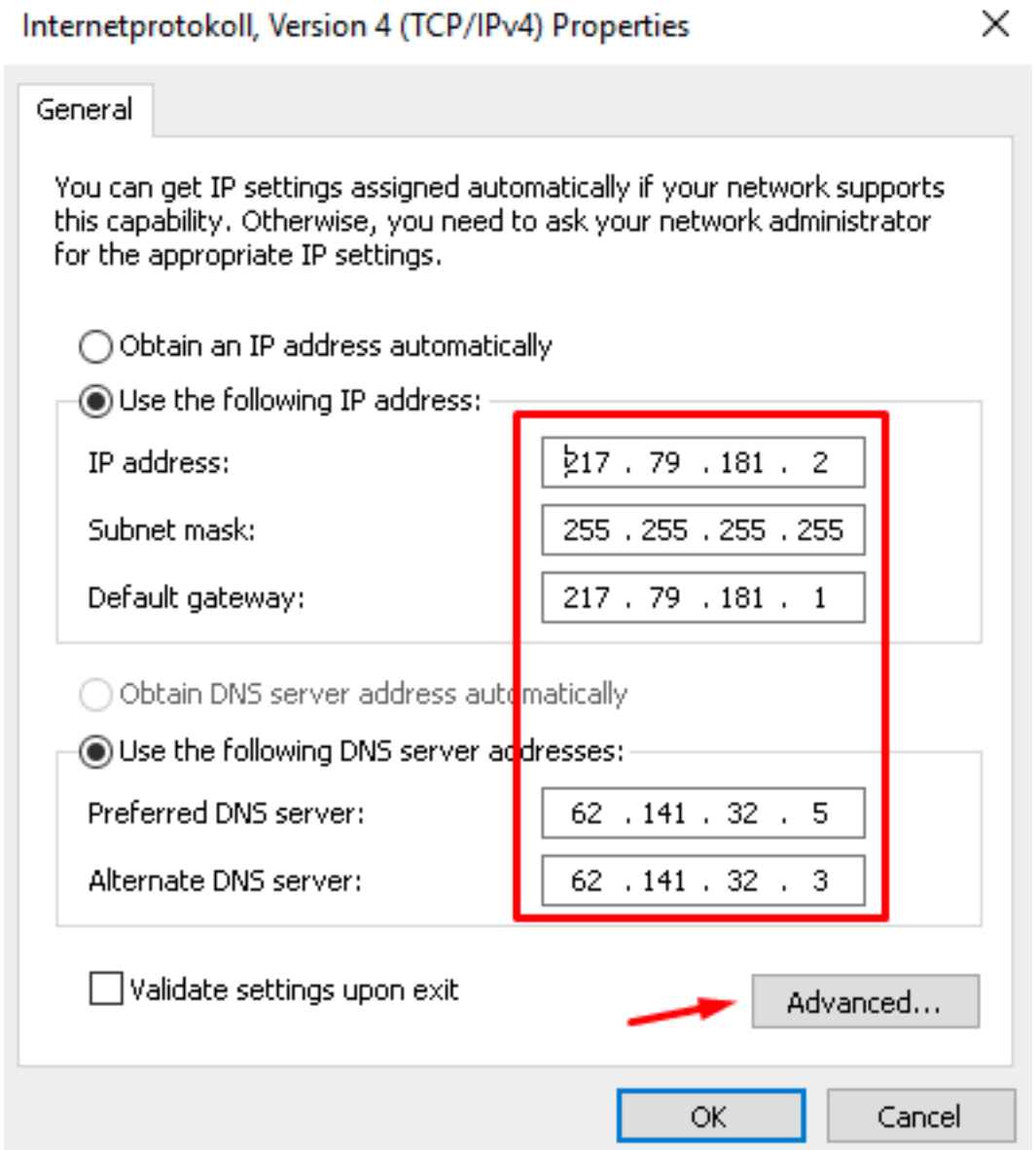
Network



To use IPv6 you have to click on "Use the following IPv6 address:" and enter the IPv6 address, subnet prefix length (64) and the gateway.

You can use our following servers as DNS servers:
Resolver 3: 2001:4ba0::53:3
Resolver 2: 2001:4ba0::53:2

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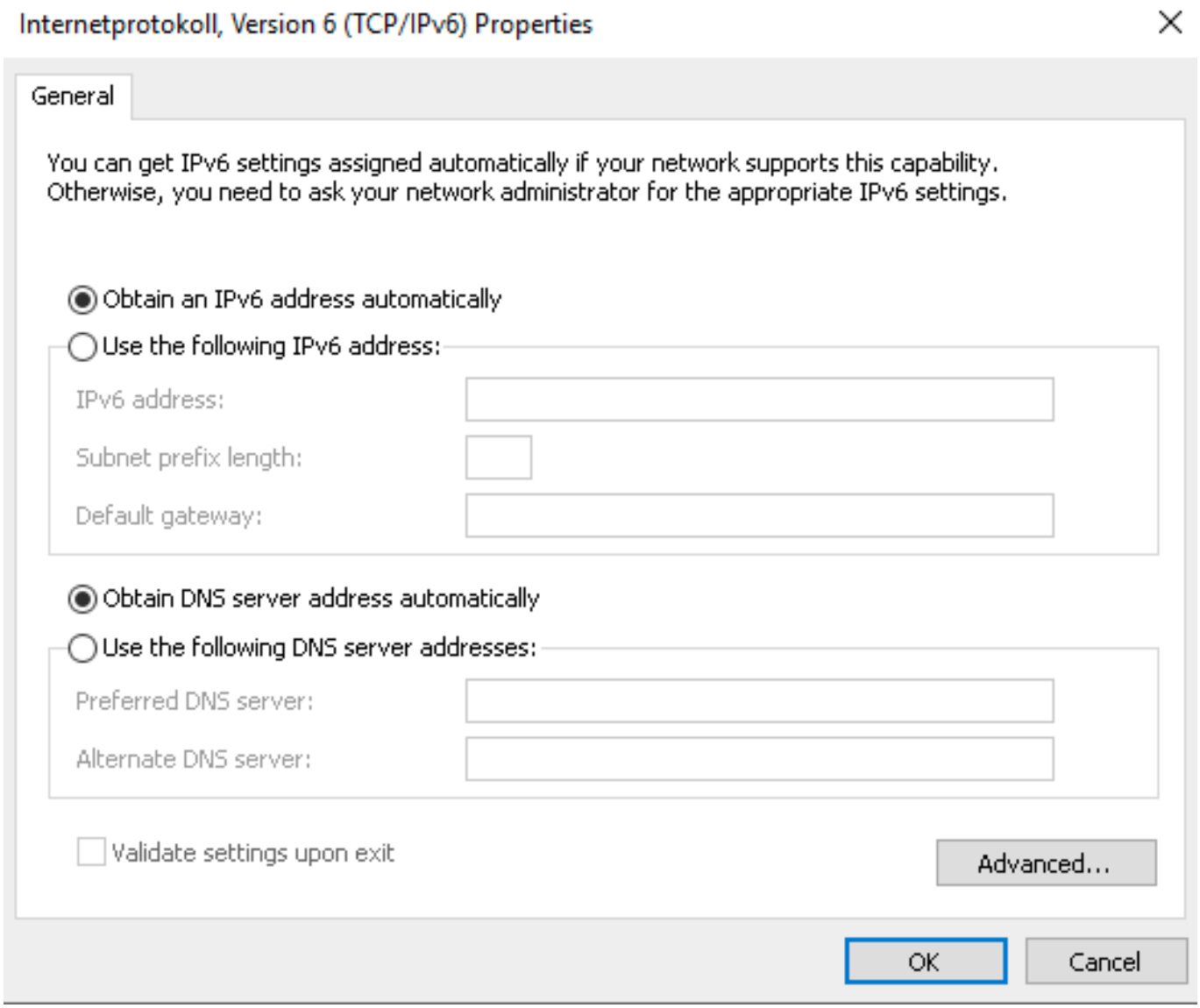

Alternatively, it can also be set via the CMD (Windows key + r and enter "cmd" there):

IPv4:

```
netsh interface ipv4 add address name="Ethernet" <IP-Adresse> <Netmaske> <Gateway>
```

IPv6:

```
netsh interface ipv6 add address "Ethernet" <IPv6 Adresse> store=persistent

netsh interface ipv6 add route ::/0 [IPv6-Gateway] store=persistent
```

*** Note ***
We always recommend restarting the server after changes to the network configuration to make sure that all settings have been changed as desired.
*** Note ***

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Unique solution ID: #1519
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