

OpenVPN Traffic

Exploratory Data Analysis: baseline traffic

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Contents

Experiment description	1
Boxplots	1

Experiment description

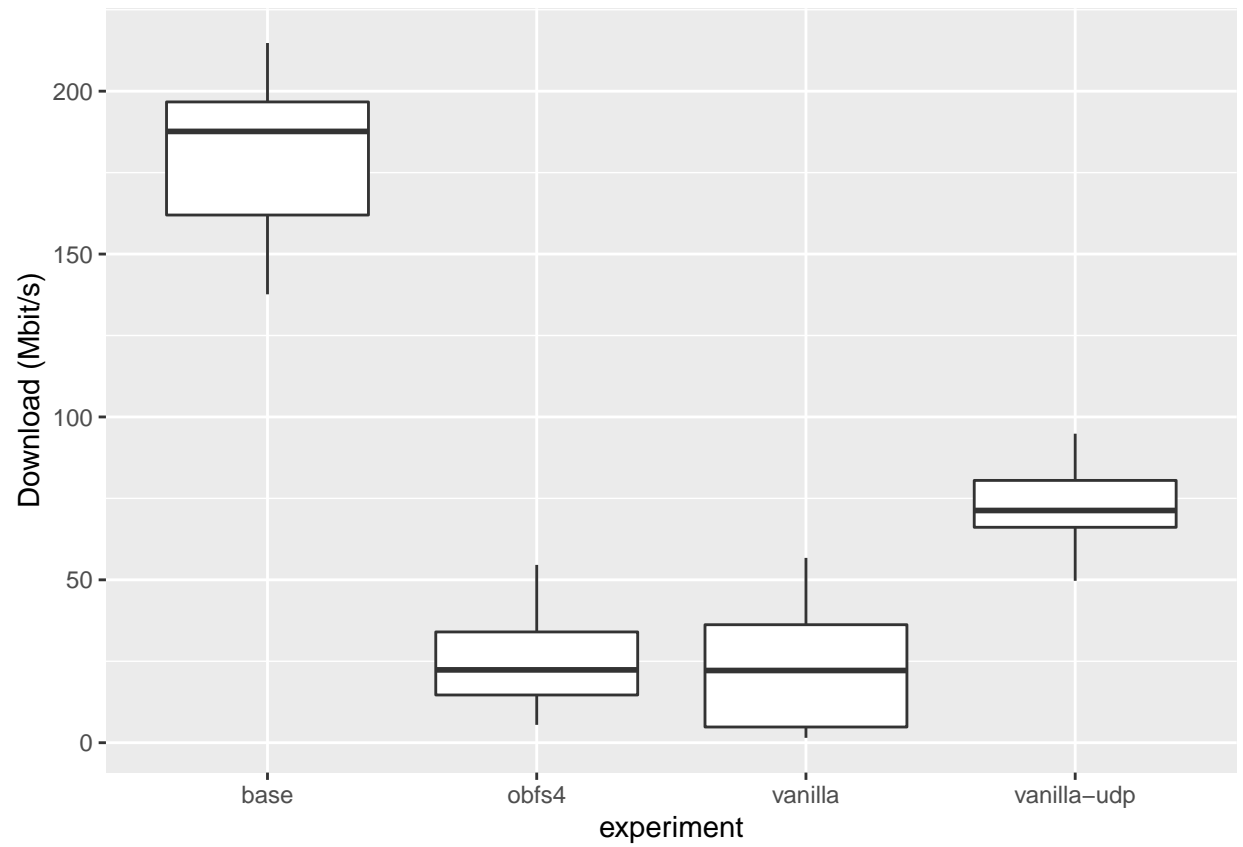
The following measurements were taken against an ndt server (located in amsterdam, oracle cloud).

Chosen OpenVPN gateway: Paris (RiseupVPN).

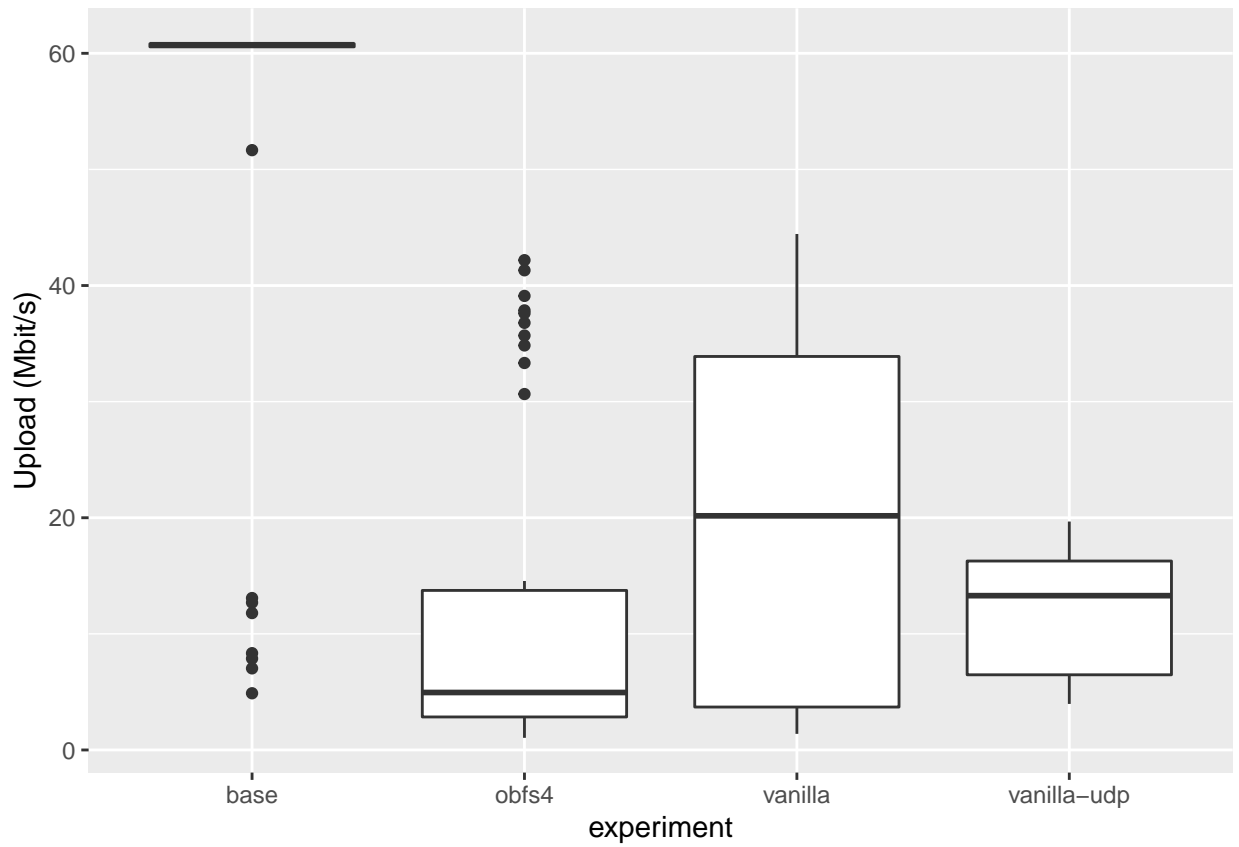
- base: residential connection (fiber)
- vanilla: openvpn (tcp mode).
- vanilla-udp: openvpn (udp mode).
- obfs4: openvpn (tcp) over obfs4 (bridge in amsterdam).

Boxplots

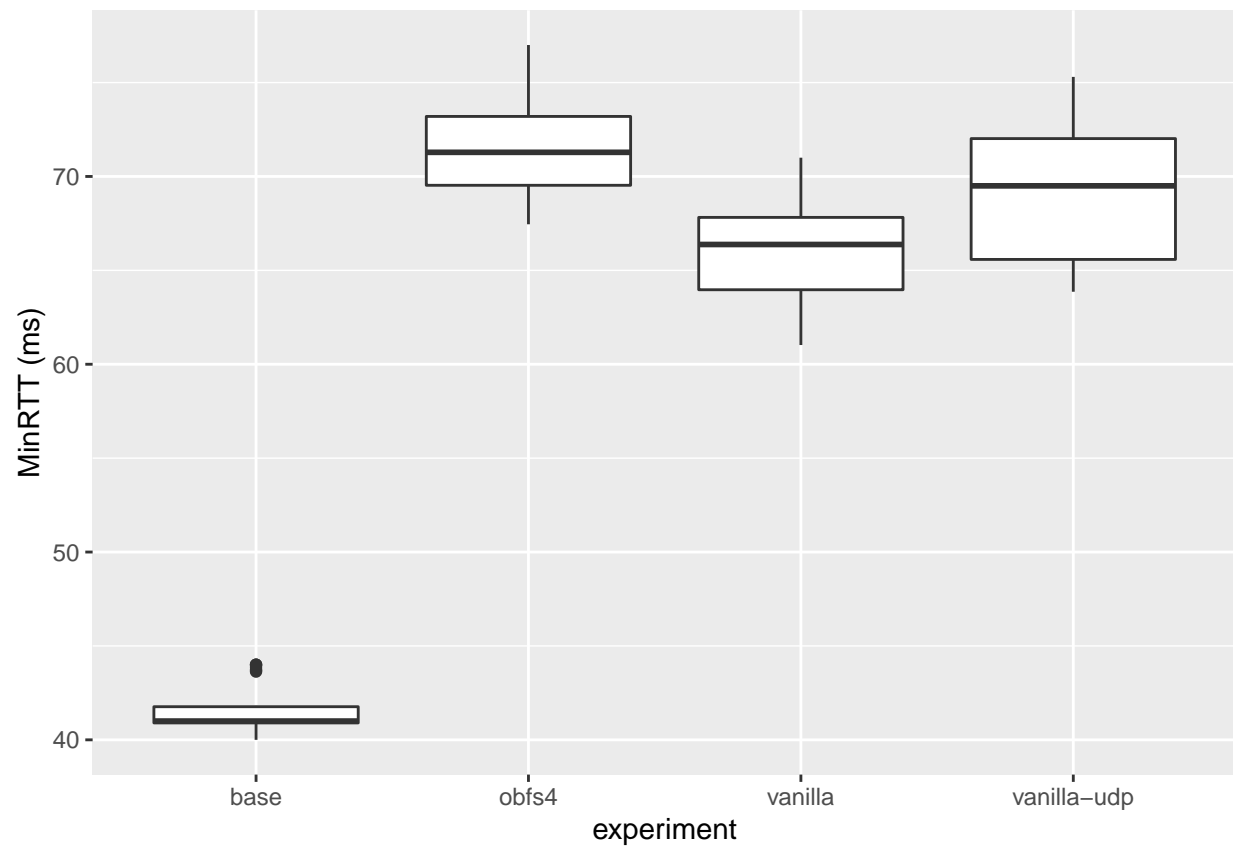
```
library(ggplot2)
d <- read.csv('../data/data.csv')
ggplot(data=d, aes(x=exp, y=down)) + geom_boxplot() +
  xlab("experiment") + ylab("Download (Mbit/s)")
```



```
ggplot(data=d, aes(x=exp, y=up)) + geom_boxplot() +  
  xlab("experiment") + ylab("Upload (Mbit/s)")
```



```
ggplot(data=d, aes(x=exp, y=minrtt)) + geom_boxplot() +  
  xlab("experiment") + ylab("MinRTT (ms)")
```



```
ggplot(data=d, aes(x=exp, y=retr)) + geom_boxplot() +  
  xlab("experiment") + ylab("Download Retransmissions (ms)")
```

