1.

1. For a single computer: 180 \* 24 / (180 \* 24 + 120 / 60) = 0.9995

For all four computers are up: (0.9995)4 = 0.998

The probability that one of the computer is down is: 1 - 0.99816 = 0.002

1. For a single computer: 1 - 0.9995 = 0.0005

For all four are down: (0.0005)4 = 0.0000000000000625

The probability that the service is up and running: 1 - 0.0000000000000625 = 0.9999999999999

2. To test the example, use sbt and then run both server and client.

3. To test the example, use sbt and then run both server and client.