

①

\$ 365 = 8760 \text{ Hour}\$



$$A = \frac{MTBF}{MTBF + MTTR}$$

$$\left. \begin{aligned} A_{web} &= \frac{8751.23}{8751.23 + 8.77} = 0.999 = 99.9\% \\ A_{App} &= \frac{8716.08}{8716.08 + 43.92} = 0.995 = 99.5\% \\ A_{Data} &= \frac{8672.40}{8672.40 + 87.60} = 0.99 = 99\% \end{aligned} \right\} 98.4\%$$

$$\therefore \text{Availability} = 98.4 \approx 8619.84 \text{ H/year}$$

$$\text{Downtime} = 1.6 \approx 140.16 \text{ H/year}$$