## **Nines Availability**

- With no replication, availability of object = = (1-f)
- With *k* replicas, availability of object =

 $= (1 - f^k)$ 

## **Availability Table**

<i>f</i> =failure probability	No replication	<i>k</i> =3 replicas	<i>k</i> =5 replicas
0.1	90%	99.9%	99.999%
0.05	95%	99.9875%	6 Nines
0.01	99%	99.9999%	10 Nines