



Systems & Technology Group Development

Failure To Change

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Evolution of 'interesting events'



Fault Tolerance → Dependability → Resilience

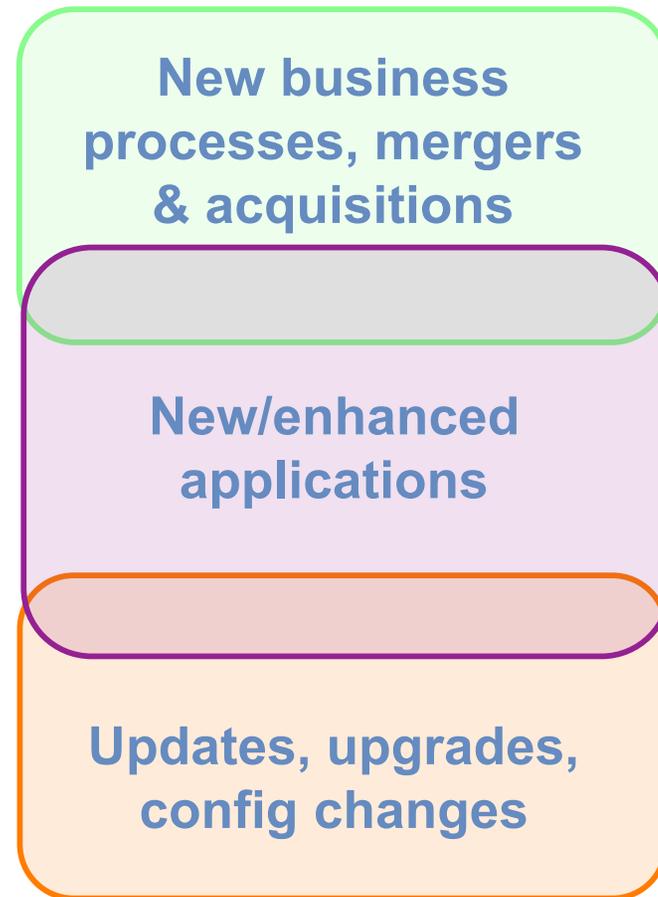
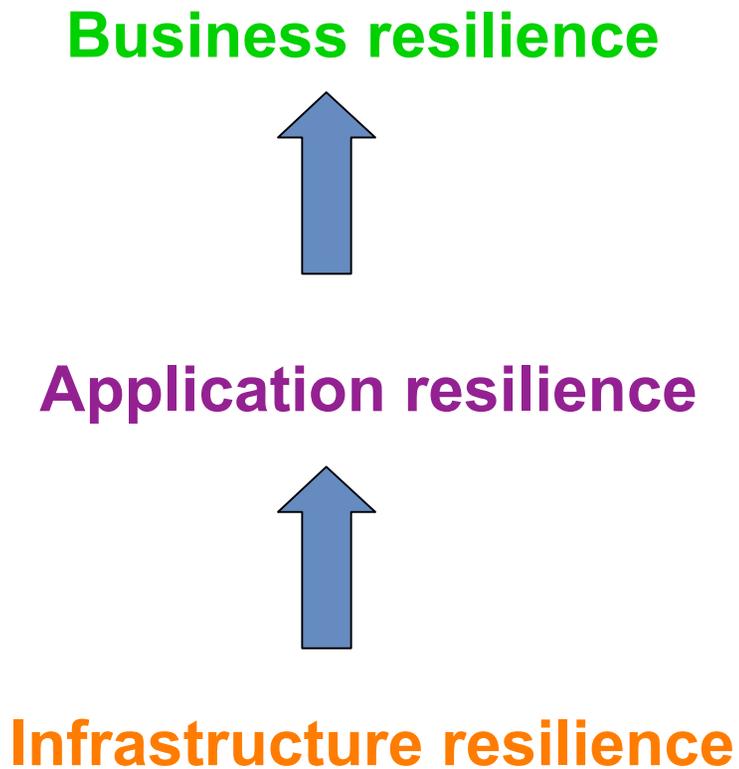
Failures
Flaws
Faults
Errors
Bugs
etc.

Intrusions
Slowdowns
etc.

?

- **CERT resiliency framework:** Operational resiliency is the organization's ability to adapt to risk that affects the core operational capacities.
- **OSU Center for Resilience:** Resilience is the capacity of a system to survive, adapt, and grow in the face of unforeseen changes, even catastrophic incidents. Also, the capacity of a system to tolerate disturbances while retaining its structure and function.
- **IBM Business Resilience Consulting:** Resilience is simply the ability to be ready – to take advantage of good changes and bounce back from bad changes.

Change is both the engine of growth and its inhibitor





Evolution of 'interesting events'



Fault Tolerance → Dependability → Resilience

Failures
Flaws
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Errors
Bugs
etc.

Intrusions
Slowdowns
etc.

Updates
Upgrades
Maintenance
etc.

Tolerate bad change

Keep running during good change

Need to evolve emphasis from **Failure to Change**



- ✓ **Not only are problems different, so are solutions**
e.g., Updating code, altering I/O, adding new CPU while operation continues
- ✓ **Change is the everyday challenge of continuous availability not a rare event**
Business value much clearer, not a ‘fear and dread’ proposition
- ✓ **Failure to Change** dependability/resiliency focus to good change may result in irrelevance
The problems are critical and will be addressed