Integration at Scale

Test the integration with a reasonable mix of data volume and transactions.

Bulkify

- Use appropriate API (Bulk v/s Soap)

Best Practices

- Bulkify in Apex code, especially triggers and web services
- API - consolidate multiple API calls if possible
- Bulk - Optimize batch size to avoid time-outs and limit retries

Sharing and Row Locks

- Multiple disparate integrations that modify the same records cause issues

Best Practices

- Do not use an active user for data integration
- Use System.runAs() in Apex to ensure the correct user is used
- Defer Sharing Calculations when appropriate

Governor Limits

- Design keeping Limits in mind.

Best Practices

- Choose the right integration pattern (sync v/s async)
- Consider business SLA and business needs while designing integration pattern
- Decide if data needs to reside inside or outside the platform