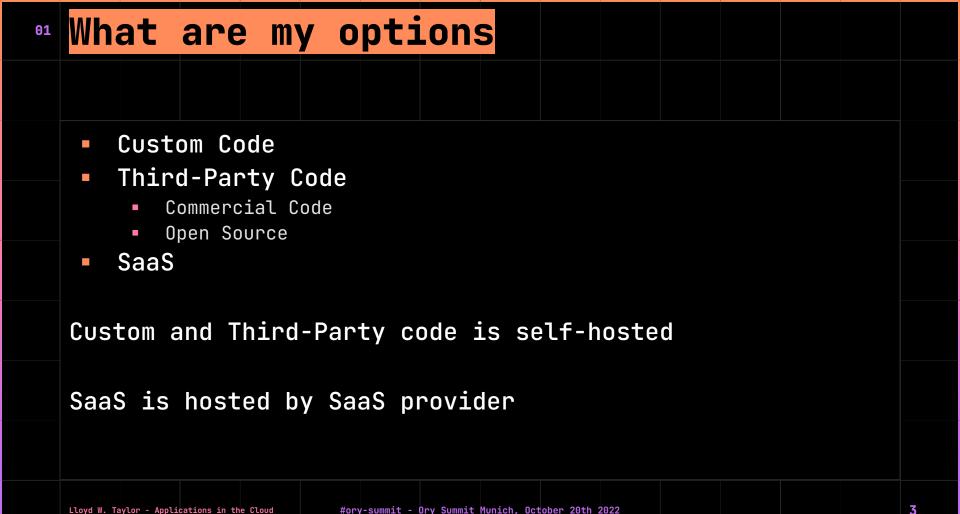


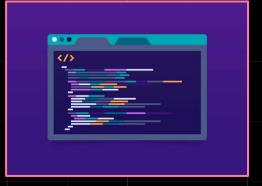
Building Applications in the Cloud

October 20th 2022





- Every line of code is a liability
 - What the code does for you is an asset
- Does the expected financial return from the custom code justify the cost to build and maintain?



- Purchase price and maintenance cost
- Responsiveness of provider to support needs
- In-house staff requirements Training
- Vendor relationship
- Release tracking and integration

code is updated and interfaces change

Refactor in-house code as commercial





- - Rich selection of functions and tools
 - Heavily used and well supported OSS can equal or surpass quality of Commercial Code
 - Pay CLOSE attention to License Terms.
 Avoid GPL3 unless you have good
 (expensive) Attornies!
- Use automated security tools to keep track of versions and CVEs, and update/patch quickly.

Spook

Spook

Spook

Selenium

Spook

Gittlub

Gittlub

Gittlub

Open source initiative

None

Mayor

Jenkins

kubana

Mayor

Jogstash

Red Hat

Re

update/patch quickly.

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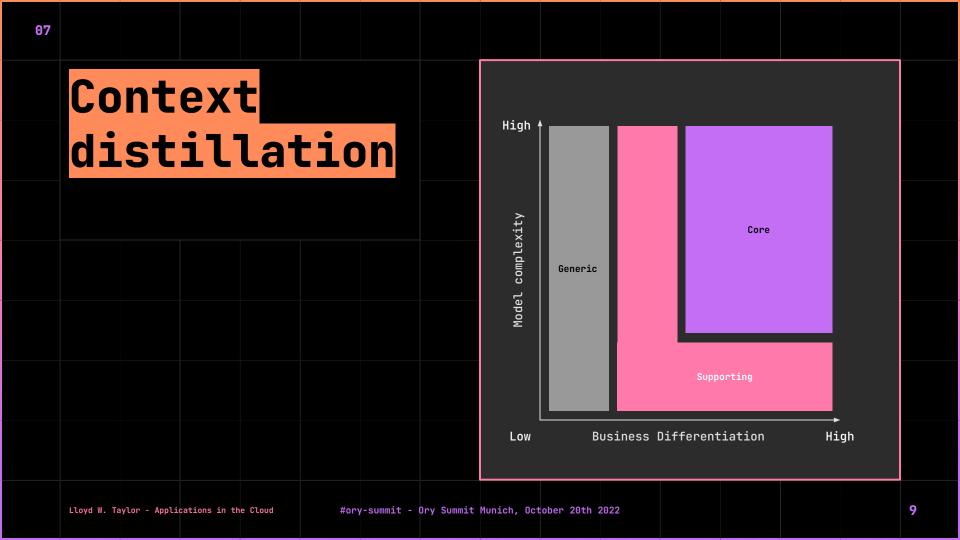
- Outsourced functionality Best-of-breed providers deliver high quality, well-maintained, secure services
- Look for SaaS providers whose corporate reputation is on the line
- Verify compliance certifications!
- Understand pricing and tiering to avoid unpleasant surprises
- Quality of API documentation is a key indicator.





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 Build/CI system must have aggressive security scanning and testing, as there is no outside review of good security practices

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- Software that enables your core software to function well
 - Examples Database (Oracle, CockroachDB, Postgres)

 - Third-Party Code can serve well here, both Open Source and Commercial
 - Managed services also an option (RDS, Aurora, BigTable)
- important

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supporting code, and keeping up with revisions/upgrades/patches Strong relationships with the creators/maintainers of the code is

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Engineering resources must be explicitly allocated to maintaining the

Commercial costs more, but provider is responsible for maintenance OSS costs less up front, but cost for maintenance is problematic

11

- SaaS provider handles patching/updating/securing
 Ensure that the SaaS provider's survival depends on delivering high-quality, secure systems!
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To properly evaluate opportunity costs, the costs and benefits of every option available must be considered and weighed against the others.

Custom

High

High

High

High

Low

High

High

High

Build Time

Customization

Maintenance

Scalability

Cost-Hard

Cost-Soft

Security

Cust Support

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Commercial

Low

Low

Med

Med

High

Med

Med

Med

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0SS

Med

Med

Med

High

Low

Med

High

High

SaaS

Low

Low

Low

Low

Med

Low

Low

Med

15

