

Versioning and p2

Are your users running the bits you think they are?

Andrew Niefer

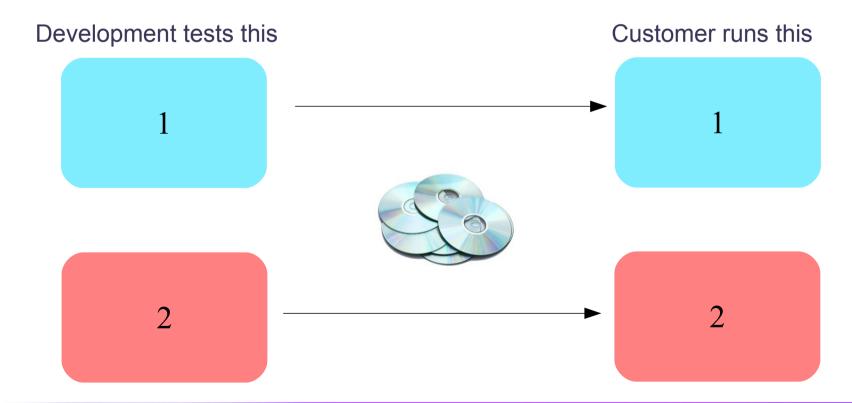
IBM Rational[™] Software Ottawa

Equinox p2 & PDE/Build Committer



Monolithic Development

- Deliver upgrades as whole wads (zips)
- Customer gets what development tested.





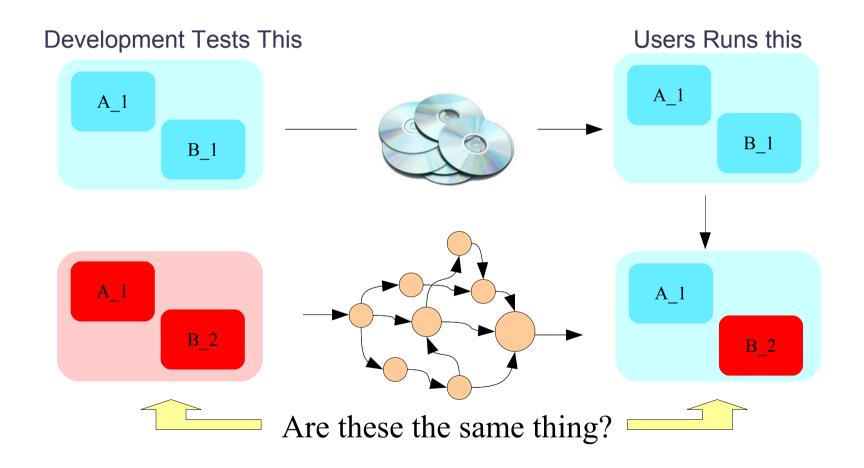
p2 content
ID + Version == 1 set of bytes

VersioningThe final bytes matter

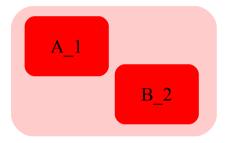


Component Development

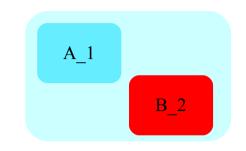
Upgrade only the pieces with a new version number







These aren't the same



What is the difference between



Same

• Source code

Different

- Compiler?
- Build scripts?
- Binary dependencies?
- Phase of the Moon?



A depends on B

```
class B {
   public void foo(Object o);
}

B_1
```

B adds a new overloaded method

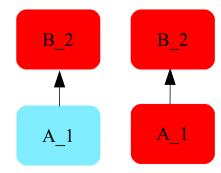
```
class B {
   public void foo(Object o);
   public void foo(String s);
}
```

Recompiling **A** against **B_2** results in different binary

```
import B;

class A {
   public void f() {
      B b = new B();
      b.foo("a string");
   }
}
```

These two setups behave differently at runtime



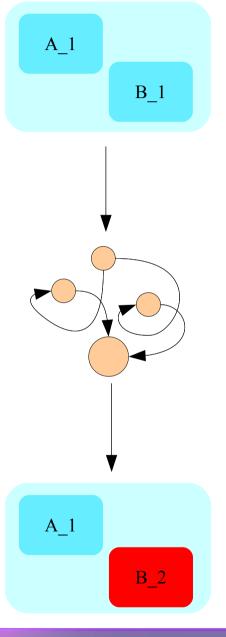




Must ensure we test the same thing the users will be running

Must ensure we create zips that are equivalent to upgrading from the previous version



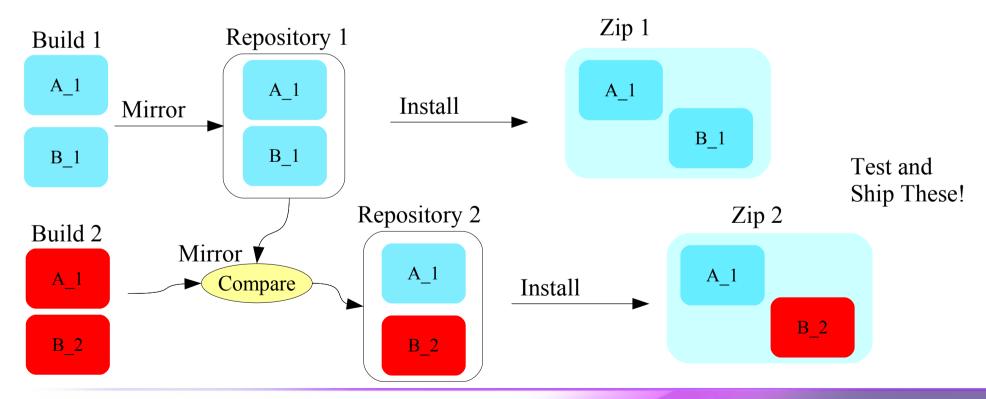




Mirroring with a Baseline

Artifacts with the same version will be taken from the baseline instead of the source.

Compare and warn if artifacts with the same version are different enough to warrant increasing the version.





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