

Security cards

Imen Sayar, Mohamed Oukas

Detecting vulnerabilities in an application



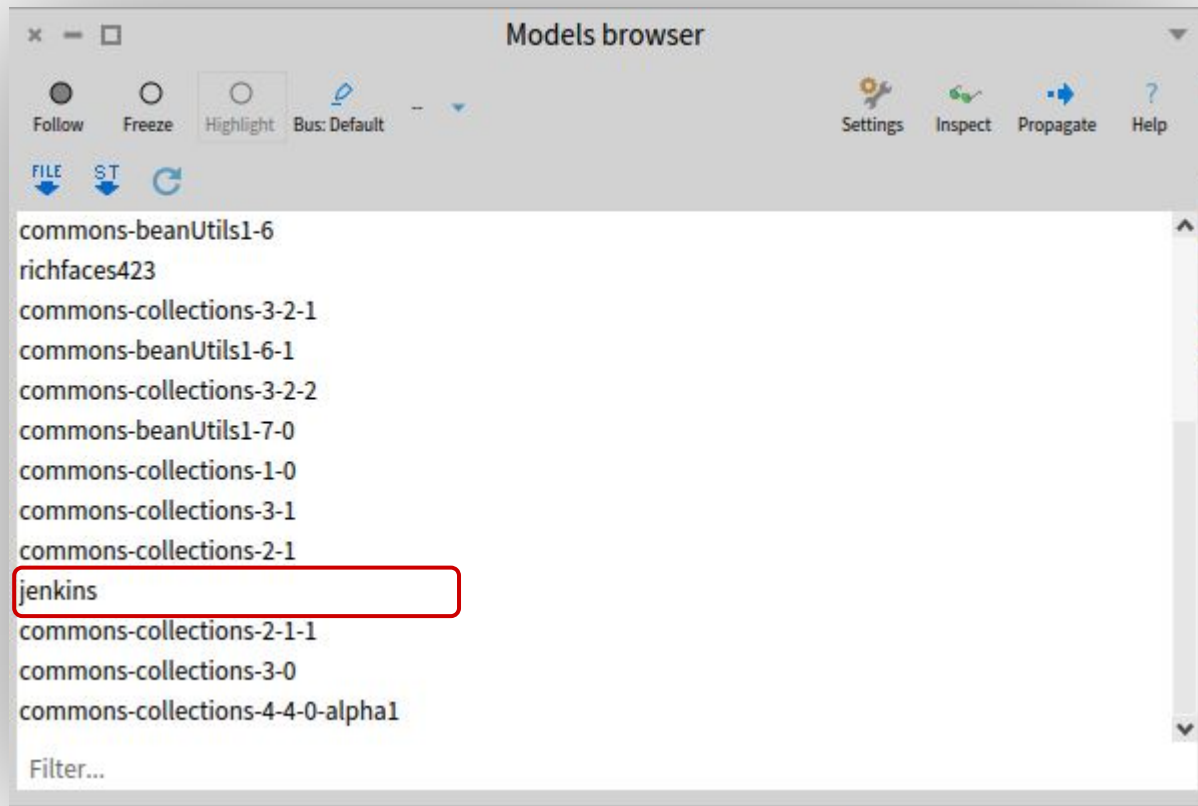
Moose Model



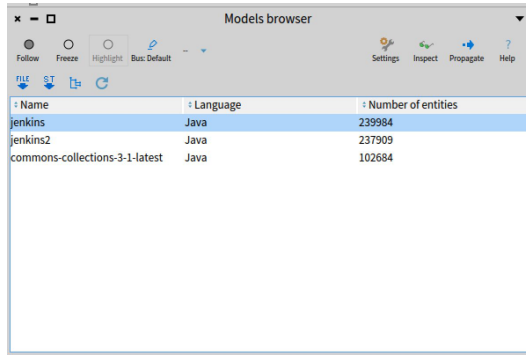
Moose-Security



Vulnerables entities

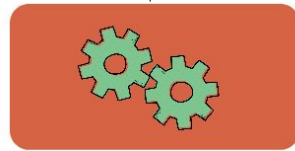


Vulnerabilities detection

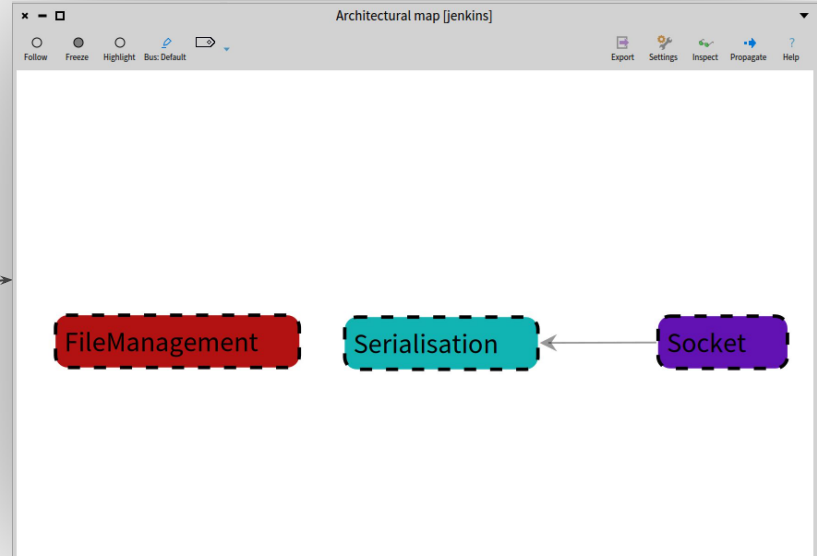


Models browser

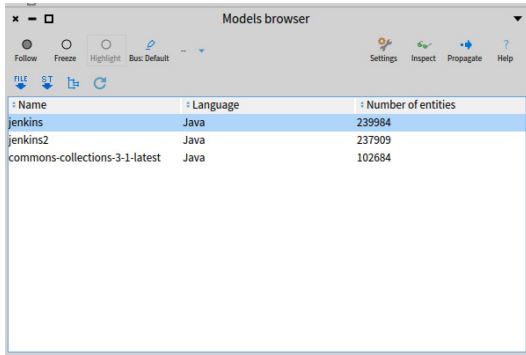
Name	Language	Number of entities
jenkins	Java	239984
jenkins2	Java	237909
commons-collections-3-1-latest	Java	102684



Moose-Security



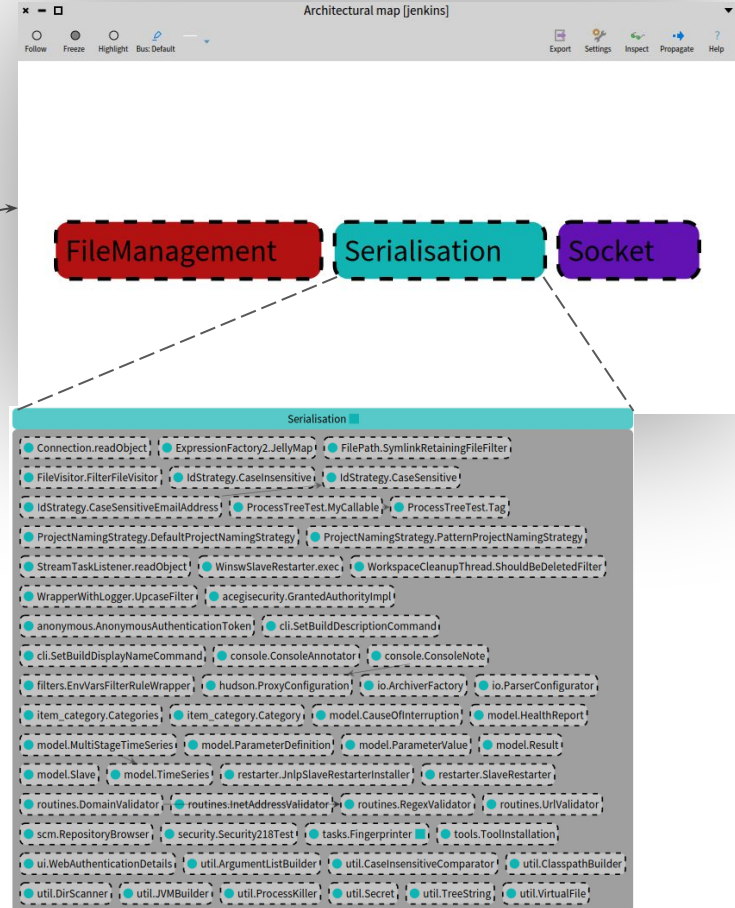
Vulnerabilities detection

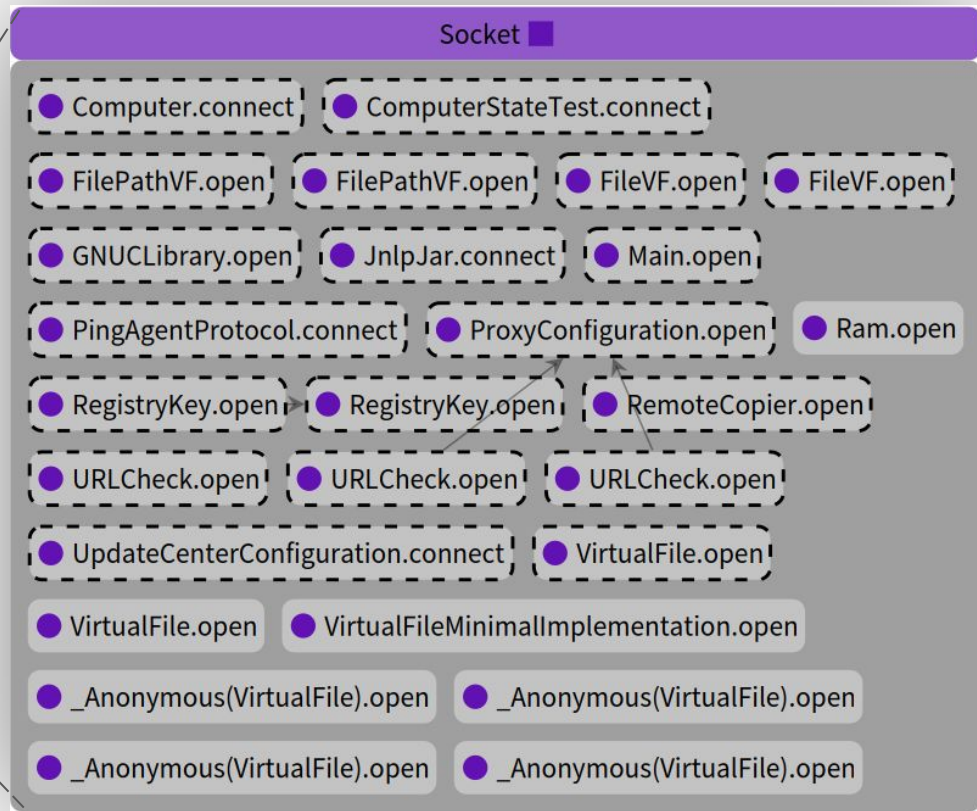
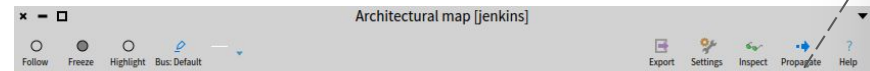


Name	Language	Number of entities
jenkins	Java	239984
jenkins2	Java	237909
commons-collections-3-1-latest	Java	102684

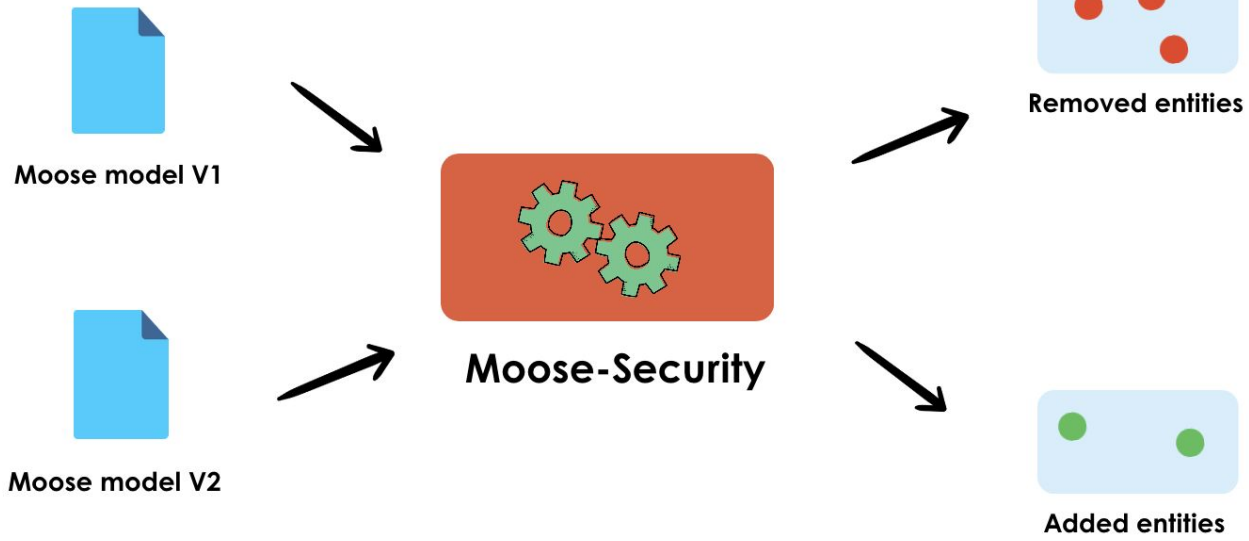


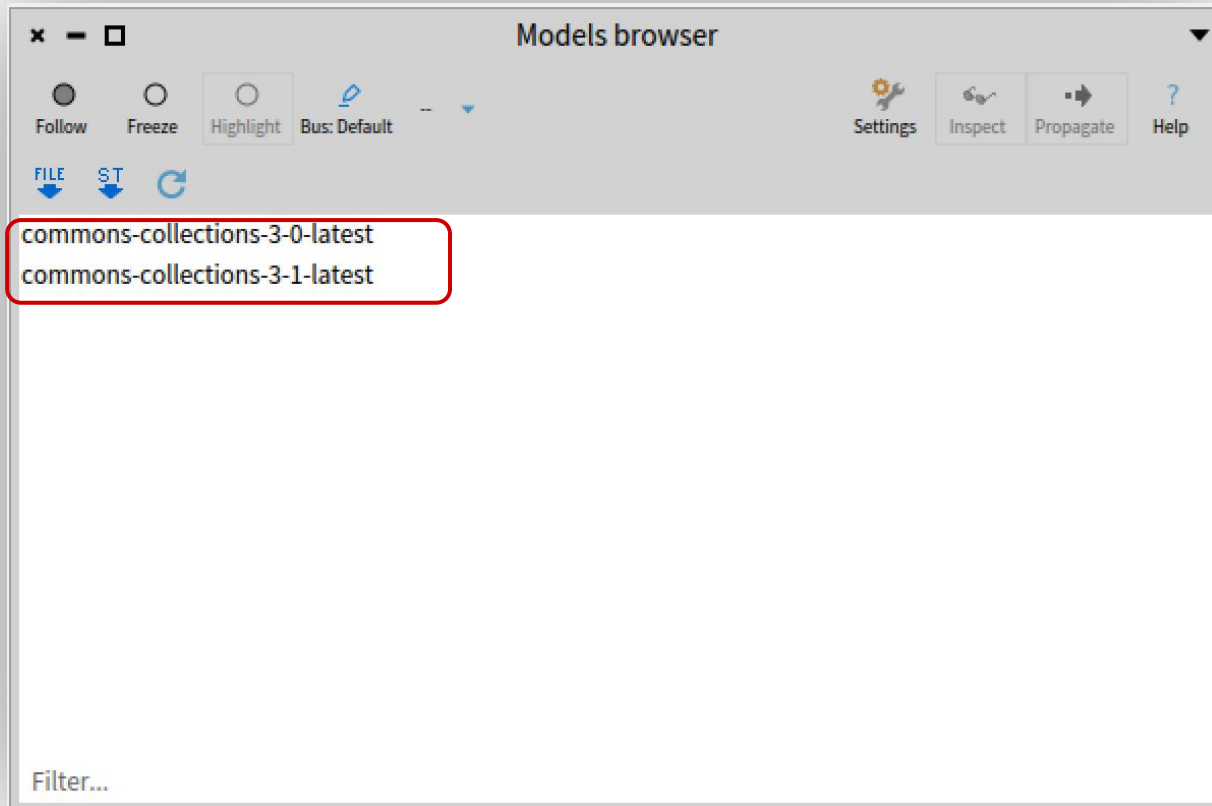
Moose-Security





Now, let's try with two versions!





Moose Playground

Do it Publish Bindings Versions Pages

Inspect in Moose Models

a SEDiffBetweenTwoModels



```
1 commonsCollections1 := MooseModel root at: 1.  
2 commonsCollections2 := MooseModel root at: 2.  
3  
4 diffModels := SEDiffBetweenTwoModels new.  
5  
6 diffModels baseModel: commonsCollections1 targetModel:  
  commonsCollections2.  
7  
8  
9
```

Raw Breakpoints Meta

Variable	Value
self	a SEDiffBetweenTwoModels
diffModel	a FXDiff
removedEntities	Group(35 FamixJavaEntity)
addedEntities	Group(211 FamixJavaEntity)
vulnerableEntities	nil
removedEntitiesTagged	Group(35 FamixRemovalChange)
removedEntitiesTaggedAss	nil
entitiesTagged	nil
res	nil
addedEntitiesTagged	Group(211 FamixAddChange)

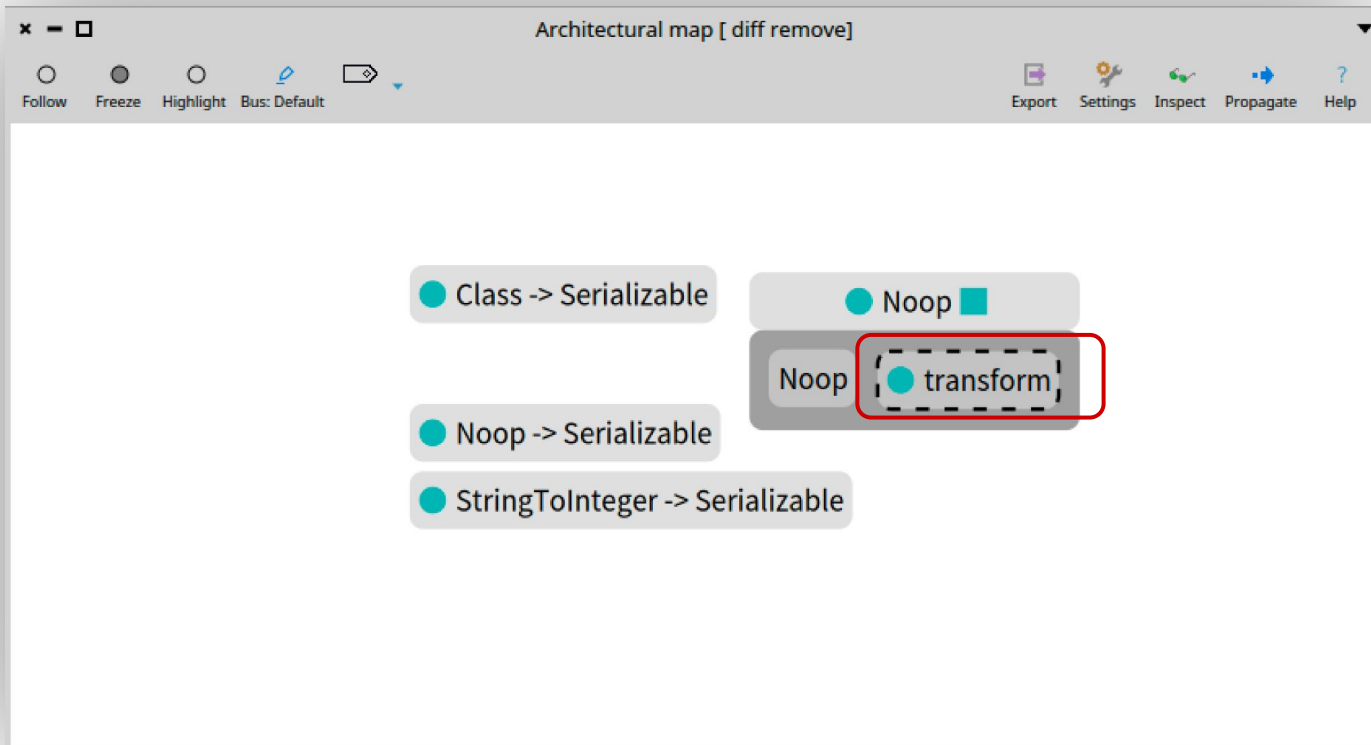
1 self

Line: 9:1

+L







And we have also detected Association changes :-)


Architectural map [diff assosChanges]

Follow Freeze Highlight Bus: Default Export Settings Inspect Propagate Help

- AbstractSerializableCollectionDecorator -> Serializable
- AbstractSerializableListDecorator -> Serializable
- AbstractSerializableSetDecorator -> Serializable
- BoundedFifoBuffer -> Serializable
- Class -> Serializable
- FixedSizeMap -> Serializable
- FixedSizeSortedMap -> Serializable
- Flat3Map -> Serializable
- LazyMap -> Serializable
- ListOrderedMap -> Serializable
- MapBackedSet -> Serializable
- MultiKeyMap -> Serializable
- PredicatedMap -> Serializable
- ReferenceIdentityMap -> Serializable
- ReferenceMap -> Serializable
- SingletonMap -> Serializable
- SingletonValues -> Serializable
- SynchronizedCollection -> Serializable
- TiedMapEntry -> Serializable
- TransformedMap -> Serializable
- TransformedPredicate -> Serializable
- UnboundedFifoBuffer -> Serializable
- UnmodifiableBag -> Serializable
- UnmodifiableBuffer -> Serializable
- UnmodifiableMap -> Serializable
- UnmodifiableOrderedMap -> Serializable
- UnmodifiableSortedBag -> Serializable
- UnmodifiableSortedMap -> Serializable
- UnmodifiableSortedSet -> Serializable
- testSerializeDeserializeCheckComparator -> Serializable
- testSerializeDeserializeThenCompare -> Serializable
- testSerializeDeserializeThenCompare -> Serializable

Architectural map [diff remove]

Follow Freeze Highlight Bus: Default Export Settings Inspect Propagate Help

- Hashtable -> Serializable
- Noop 
- Noop -> Serializable
- StringToInteger -> Serializable

