To Run samples in our distribution (tuscany-sca-2.0-DU/samples) in your virtual machine, you need to make sure the following things:

1. Setup your environment path

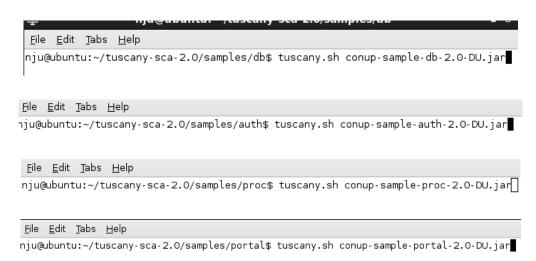
set PATH=%PATH%;/home/nju/tuscany-sca-2.0-DU/bin

- 2. use nat network, and make sure your virtual machine's ip address is 10.0.2.15, because our binding uri is this ip.
- 3. First, start the domain manager in terminal like this:

```
File Edit Tabs Help

nju@ubuntu:~/tuscany-sca-2.0/modules/conup-domain-manager-2.0-DU$ tuscany.sh conup-domain-manager-2.0-DU.jar ■
```

4. Start all other four nodes in your terminals like the following figures.



5. After all nodes are started, we can type installed in terminal to see which nodes we have started

```
nju@ubuntu: ~/deploy/sample/portal
<u>F</u>ile <u>E</u>dit <u>T</u>abs <u>H</u>elp
Mapping
INFO: Added Servlet mapping: http://10.0.2.15:9084/PortalComponentComm/(
ConfService/*
Oct 12, 2012 2:24:55 PM org.apache.tuscany.sca.registry.hazelcast.Hazelc
nRegistry entryAdded
INFO: Remote endpoint added: (@2330238) Endpoint: URI = PortalComponent
vice-binding(ComponentConfService/ComponentConfService)
Oct 12, 2012 2:24:55 PM org.apache.tuscany.sca.registry.hazelcast.Hazelcaststy addEndpoint
INFO: Add endpoint - (@6294242)Endpoint: URI = PortalComponentComm#serv
ing(ComponentConfService/ComponentConfService)
Oct 12, 2012 2:24:55 PM org.apache.tuscany.sca.impl.NodeImpl startComposINFO: startComposite: conup-container/PortalComponentComm.composite
communication.composite ready for big business !!!
default> installed
   conup-sample-db-2.0-DU
   conup-domain-manager-2.0-DU
conup-sample-proc-2.0-DU
   conup-container
   conup-sample-portal-2.0-DU
   conup-sample-auth-2.0-DU
default>
```

6. Invoke services

a. Invoke PortalComponent's PortalService

invoke PortalComponent/PortalService execute nju cs

default> invoke PortalComponent/PortalService execute nju cs

b. OndemandSetup

if you want to set up these dynamic dependencies, you can invoke ondemandSetup service provided by domain manager like this:

 $invoke\ Domain Manager Component/Domain Component Update Service\ on Demand Request$ $Auth Component\ Concurrent Version$

the last two parameter are which component you want to start this onDemandSetup, and which policy you want to achieve freeness. After this invocation, your component status will be changed to valid(normal->valid).

After ondemandSetup, we can check component's status by invoking its
 ComponentConfService getCurrentStatus method to get its status(it should be valid)

default> invoke AuthComponentComm/ComponentConfService getCurrentStatus Valid

d. Update your component, in paper example, we update AuthComponent, we put our new serviceImpl in one folder like following figure:



And we invoke Auth's update service to invoke update.

invoke AuthComponentComm/ComponentUpdateService update /home/nju/deploy/sample/update cn.edu.nju.moon.conup.sample.auth.services.AuthServiceImpl conup-sample-auth-2.0-DU auth.composite

when you finish updating, you can invoke Portal service to test whether your update is right.

Note:

Because we use tools to analyze our source code and insert some information to help us implement our algorithm in this platform, so you need to use the jars in clean folder to replace the old jar.

