

Livespace Deployment Exercise

Summary

- Customise configuration of a Livespace
 - Distribution of services
 - Configuration of services
- Build and run Livespace client

Preamble

- Ensure the Elvin daemon is running
 - Windows 'Services' Utility
- Open Eclipse IDE
- Expand 'livespace.osgi' project

Create Custom Configuration

- Create a copy of the '*install_template*' configuration directory, name the copy '*test*'

- Start Cygwin and change to the *livespace.osgi/config* directory

- Execute the following commands

```
cp -rp install_template test
```

```
rm -rf `find test -name .svn`
```

- In Eclipse, right-click on the *livespace.osgi* project, and select Refresh

- *N.B. This would normally be done automatically by the Livespace installer*

Configure Deployment of Bundles/Services

- Expand '*deploy*' directory within your custom configuration directory (i.e. '*test*')
 - Files within this directory define:
 - How hostnames are mapped to categories
hosts.category_map
 - How deployment configurations are mapped to categories/hosts
services.deploy_map
 - Which bundles/services to run within deployment configurations
**.deploy*

Customise Category Map

- Edit '*hosts.category_map*'
- Define default category to be 'client' (this isn't actually necessary as already defined in default config)

```
default = client
```

- Make your computer be a 'server'

```
host.your_host_name = server
```

- To find your hostname run the following in cygwin (or command prompt)

```
ipconfig /all
```

Customise Deployment Map

- Edit '*services.deploy_map*'
- Assign 'client', 'display' and 'server' deployment configurations to 'server' category

```
category.server = client + display + server
```

- Note: The default client, display and server deployment configs are defined in 'default' config directory. You may want to view them to see what bundles are installed/started by default

Customise 'client' deployment config

- Edit '*client.deploy*'
- Include default 'client' deploy config

```
include default/client
```

- Remove screen sharing and livepoint from 'client' config

```
uninstall livespace.services.screen_sharing.peer
```

```
uninstall livespace.services.livepoint-${platform}
```

- Note: `${platform}` can be used for operating system specific bundles
- Install Teamscope UI bundle at level 6

```
initlevel 6
```

```
install livespace.ui.teamscope
```


Create custom 'server' deployment config

- Create file named '*server.deploy*'
- Include default 'server' deploy config

```
include default/server
```

- Remove screen sharing server bundle

```
uninstall livespace.services.screen_sharing.server
```

Configure Services

- Expand 'services' directory within your custom configuration directory (i.e. 'test')
- Files within this directory define:
 - Properties/variables that apply globally to multiple services
 - *globals.properties*
 - Properties for particular services
 - Global: *<service>.properties*
 - Category-specific: *<service>-category.properties*
 - Host-specific: *<service>@hostname.properties*

Global Properties

- Edit '*globals.properties*'
- Modify the room name for your custom configuration

```
room_name = Your Room Name
```

```
room_name_short = Your Room Name
```

- Modify the hostname of the main server for your Livespace

```
main_server = your_hostname
```

- Add a property to define where services should store data

```
data_dir = file:/development/livespaces/livespace.osgi/data
```

- Ignore the rest of this file for now, the remaining properties are used by Livepoint

Customise Room Service Properties

- Create a file named *'livespace.room.properties'*
- Add a property to this file named 'datastore' that references the 'data_dir' variable specified in 'globals.properties'

```
datastore = ${data_dir}
```

- This specifies that services should store any persisted data into the location specified by `${data_dir}`

Build bundles

- Run '*livespace_core_bundles*' and '*livespace_standard_bundles*' targets of the *livespace.osgi* Ant build file
 - From Eclipse's *Window* menu go to *Show View > Ant*
 - Drag the *build.xml* file from the *livespace.osgi* project into the Ant panel
 - Expand the *livespace.osgi* listing in the Ant panel
 - Double click the respective targets (wait for the first target to finish before running the second)

Configure Environment Variables

- Start Cygwin (if not running already)
- Change directory to */development/livespaces/livespace.osgi*

```
cd /development/livespaces/livespace.osgi
```

- Set the *LIVESPACE_OSGI_PATH* environment variable to point to current directory (in URI format)

```
export LIVESPACE_OSGI_PATH=file:/development/livespaces/livespace.osgi
```

- Set the *LIVESPACE_CONFIG* variable to “test” (the name of your custom config directory)

```
export LIVESPACE_CONFIG=test
```

Run 'Test' Livespace

- Run the Livespace 'client'
 - Go to *livespace.osgi* directory in Cygwin
 - Run the start_livespace.sh script

```
bin/start_livespace.sh
```