Demo 1 – Client API

* Quick demonstration of sample application
  + Show that the delete user method has not been implemented (message will show in model state summary)
* Switch to visual studio
* Remove “Add Service Reference” from Web.Client
* Create AuthenticationClient in Contracts\Authentication
  + public class AuthenticationClient : ServiceAdapter<IAuthenticationService> { }
* Add project reference to contracts project
* Fix Web.Client\Controllers\Home
  + Index Action
  + Login Action

Demo 2 – Service API

* Show existing Web.Host\Authentication.svc
  + Show large AuthenticateUser method and talk about the infrastructural concerns
  + Show small GetAllUsers method, and talk about the properties of ServiceExtension
* Add ServiceExtension attribute to Authenticate method w/ same properties as GetAllUsers, except for the RequestHandler property; make RequestHandler = False
* Remove all infrastructure – try/catch, audits, transactions
* Re-run sample application and demonstrate functionality is still the same
* Dive into the ServiceExtension attribute, showing the decorator pattern
* Show the AuditDecorator as an example
* Show AuthenticateUser method code again
* Extract the code into a new RequestHandler component
* Copy the exception from GetAllUsers and paste where old code used to be in AuthenticeUser method
* Change RequestHandler = True in ServiceExtension attribute
* Mention that all methods now have the same attribute, so the attribute can be moved to the service level; refactor the extension attribute to be only at the service level
* Re-run sample application and demonstrate functionality is still the same

Demo 3 – Portal

* Show existing Web.Host\Portal.svc
  + Already has the ServiceExention attribute, this time with Portal = True
* Show existing Contracts\Portal\PortalClient
* Refactor Web.Client\Controllers\Home actions to use PortalClient instead of AuthenticationClient
* Run application and show everything is still functional
* Implement delete user method
  + Controller action already exists
  + Create new request/response objects, and do not add any WCF attributes (DataContract/DataMember) – don’t mention it unless someone asks
  + DeleteUserRequestHandler already exists, just need to uncomment – commented out because request/response objects did not exist
  + Point out the special case where we are checking for an admin user and throwing an exception – this shows our transactional decorator working
  + Change controller action to call the PortalClient
* Run application and show everything is still functional
* Show delete scenario working
* Show delete admin scenario behaving correctly (transactional)
* Show exception in ELMAH view
* Show new request/response objects without any WCF attributes
* Start screaming “Where’s the beef?!”