

Environment Management

Veeva Professional Services

Module Objectives

- **Define environment management**
- Describe the options for migrating custom metadata
- Demonstrate how to perform migration with Eclipse and Change Sets

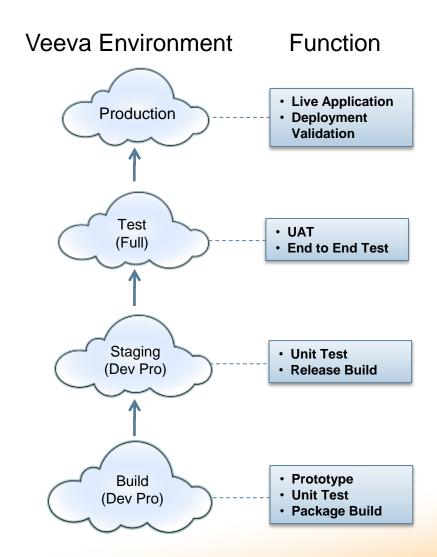


Environment Management

- **Environment Management is the strategy, process and tools** used to manage a Veeva instance (metadata) so that it remains current
 - This includes the management of multiple environments (development, QA, staging, training, production, etc.) such that the correct updates are deployed to the correct environment at the correct time
- **Environment Management is crucial to every deployment**
 - Requires careful planning and finding a strategy that fits the organization's needs

Single Prod Org Implementations

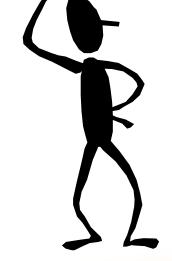
Typical single org path works for small companies with few business units who share similar business rules



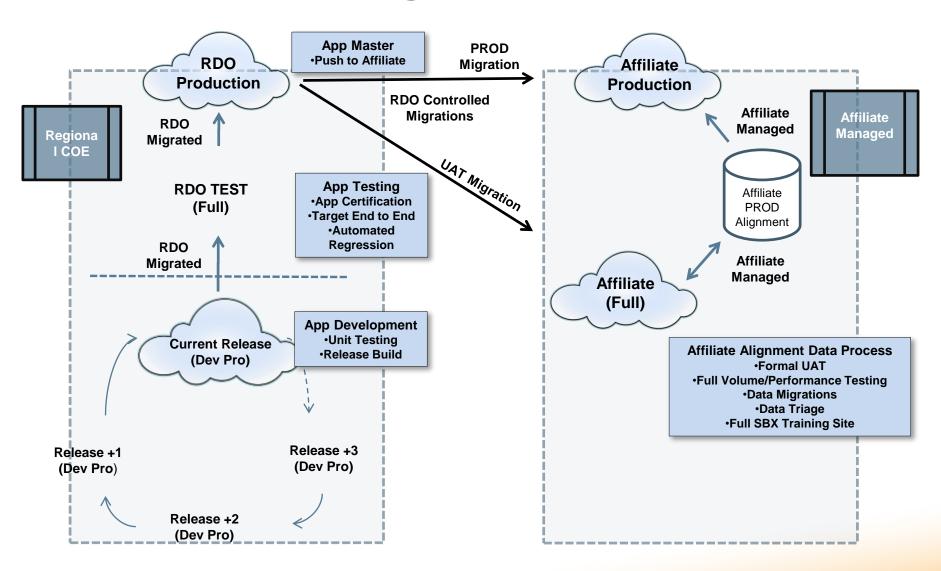
One Size Does Not Fit All

But...what happens when the company grows and business rules and processes become more unique amongst business units?

Or...what about large companies that span multiple countries and regions?



Multiple Prod Org Implementations





Sandbox – Configuration Migration

What are the tools to migrate metadata between environments?

Eclipse with Force.com IDE plug-in

- Migrates metadata between environments
- Fields, page layouts, record types, etc.
- http://wiki.developerf orce.com/index.php/ Force.com_IDE_Inst allation

Change Sets in SFDC

- Migrates metadata from one organization to another
- Fields, page layouts, record types, etc.
- Can only be migrated between "related" orgs

Workbench

- Migrates metadata between environments
- Fields, page layouts, record types, etc.
- Web-based tool <u>https://workbench.d</u> <u>eveloperforce.com/l</u> <u>ogin.php</u>

Eclipse with Force.com IDE

Force.com IDE Migrates Metadata

- Fields, page layouts, record types, user profiles, reports, email template, triggers, Visualforce pages, translations, etc.
- There are some Metadata items that Force.com IDE does not manage
 - Org password policies, IP settings, Network settings

Force.com IDE Does Not Migrate Data

- User Roles, Territories, Users, User to Territories, Sharing Rules, Groups
 - Even though this is treated as Metadata by SFDC refresh processes
- Does not manage Veeva Data
 - Veeva Messages, Product Catalog, Views, etc.
- Does not manage Customer Data
 - Accounts, Calls, Product Plans



Force.com IDE

Eclipse Migration Steps

Steps for creating and deploying custom metadata with Eclipse:

1. Download and install Force.com IDE

3. Deploy
Force.com Project
containing custom
metadata to target
orgs







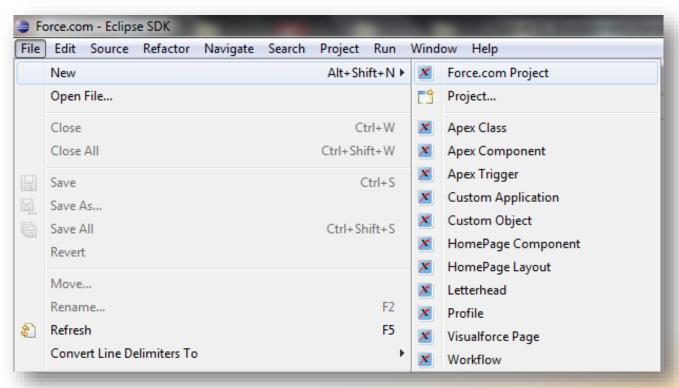
2. Create Force.com Project(s) containing custom metadata

1. Install Force.com IDE

- Go to <u>http://wiki.developerforce.com/page/Force.com_IDE_Installation</u>
 - Follow instructions to download Eclipse and install the Force.com plugin
- Once installed and configured, you can start using Eclipse to connect to Salesforce.com (Veeva) orgs and perform environment management tasks

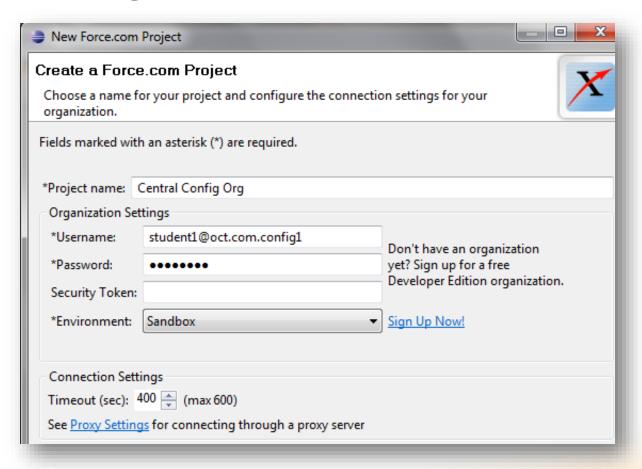
2. Create Force.com Projects

- Launch Eclipse and go to File → Force.com Project
- Create Force.com Projects to pull down custom metadata from source org(s)



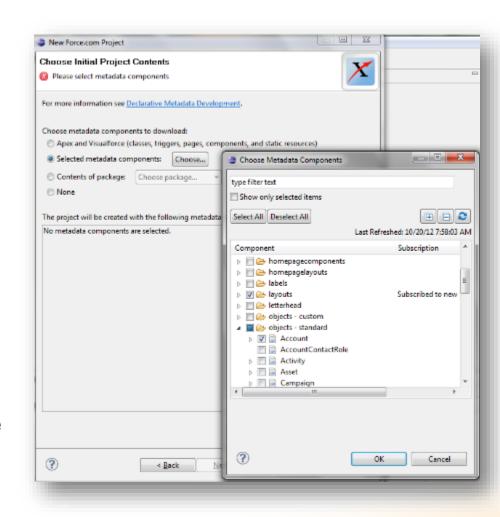
2. Create Force.com Projects

Login to the org that contains the custom metadata

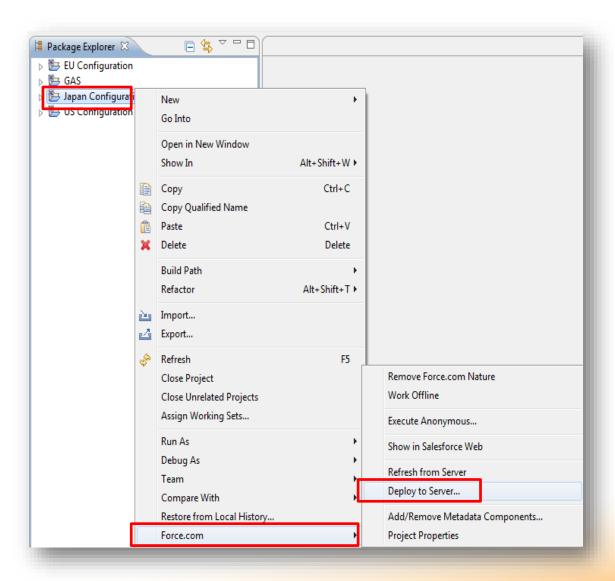


2. Create Force.com Projects

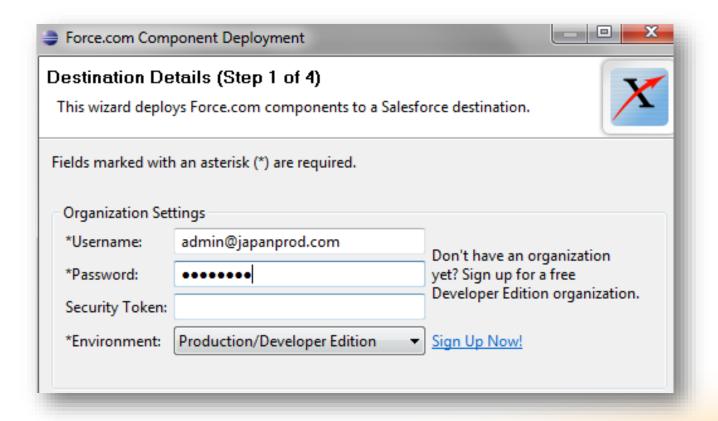
- Fetch custom metadata to be part of the project(s):
 - Fetch all metadata or only the needed custom metadata
 - For example, you may need to create projects containing the custom metadata specific to a region or country
- Include all dependent metadata:
 - For example, if custom fields are on a page layout you must also fetch the custom fields



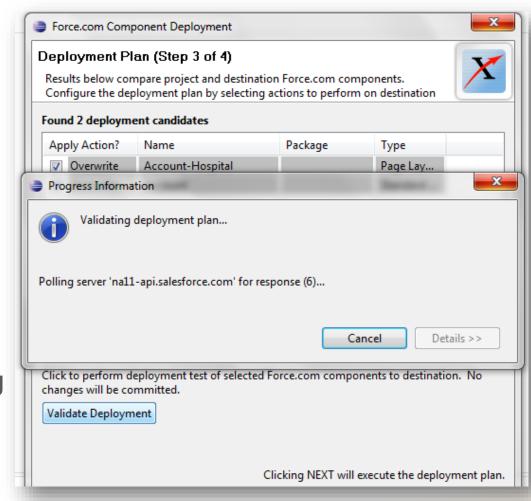
- To deploy a project, right-click on it and:
 - Select Force.com → Deploy to Server...



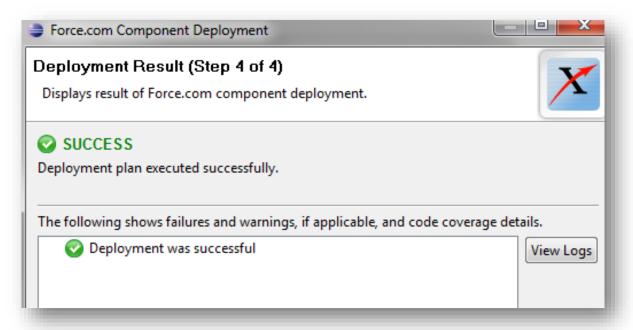
- Login to the target org
 - For example, Japanese production or full sandbox org



- Click the Validate Deployment button
- Validate the project prior to deployment to make sure there are no problems with the package
- If problems are detected, fix them before deploying the project



 If validation completes successfully, click Next to proceed with deployment



Change Sets

Change Sets in SFDC

Outbound and inbound change sets can also be used to migrate configuration created or modified through the Setup menu between orgs

Deployment Connections

Ensure a connection is created between orgs

Outbound Change Sets

• Create a change set from a source org (production or sandbox) and select components to migrate

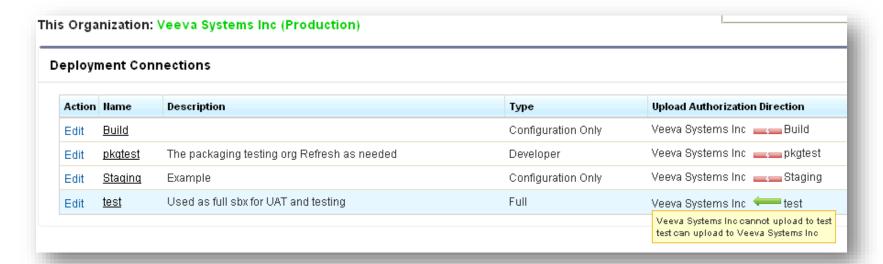
Inbound Change Sets

 Once you have created an Outbound Change Set in an org and selected the org to which you want to migrate it, you would: (a) select the org to send the Change Set, (b) login to the target org and find the Change Set in the Inbound Change Set setup area, and (c) select the Change Set and deploy it

Deployment Connections

Establishes connections between orgs

- A deployment connection is automatically created between all related organizations whenever a sandbox is created
- Each organization must be authorized to send and receive change sets



Outbound Change Sets

- Created in the org you are logged into to send to another org
- Packager is used to:
 - Collect all desired components
 - View/add all dependencies
 - Add user profile settings

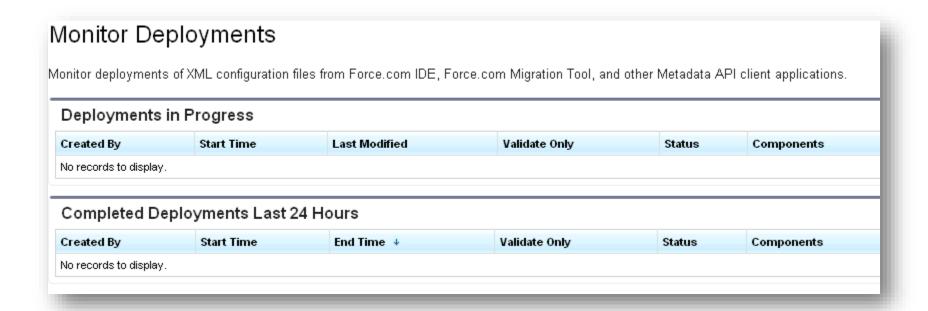
Inbound Change Sets

- Sent to the org you are logged from another org
- Installer:
 - Validates package before install
 - Installs package
 - Tracks installation history
- Installations cannot be rolled-back
 - Testing "Packaging Org" is important
 - Make changes in source org and redeploy
 - Manual changes to restore or refresh



Monitor Deployments

Supports tracking of Installations



Migrating Profiles Caveats

- Profiles have many dependencies and can be troublesome to migrate
- Reference integrity is difficult to verify:
 - Application
 - Field Level Security
 - Page Layouts
 - Record Types
 - VisualForce Pages
- Ensure referenced components are migrated first
- May be quicker to create new profiles in the target org and manually configure new profile settings



Module Summary

- Defined environment management
- Described the options for migrating custom metadata
- Demonstrated how to perform migration with Eclipse and Change Sets



Lab – Migrate Custom Metadata

Create a custom object in a sandbox

Retrieve and Deploy Custom Metadata

 Use Change Sets to Migrate the custom object components