## Ant Installation

<https://appirio.com/tech-blog/quick-guide-to-using-apache-ant-for-salesforce-deployments>

Change Set Details

<https://help.salesforce.com/articleView?id=changesets_about_connection.htm&type=0>

<https://help.salesforce.com/articleView?id=t_changesets_deployment_connection.htm&type=0>

<https://help.salesforce.com/articleView?id=changesets_admin_connection_details.htm&type=0>

## Link to app dev sessions

## Best practices of ANT:

Recorded Session:

<https://drive.google.com/open?id=0B3yyLfbq-2FMMmxuTzdMa1VUWDA>

Link to Presentation:

<https://docs.google.com/a/appirio.com/presentation/d/1hUuxMuVw4RFVfnJUZAHJWYXBVde-FXHRRrsIShlwYCk/edit?usp=sharing>

2) Advanced Release Management Processes:

Recorded Session:

<https://drive.google.com/a/appirio.com/file/d/0B3yyLfbq-2FMZVBibDR6SUdZOFk/view>

Link to Presentation:

<https://docs.google.com/a/appirio.com/presentation/d/14JKRzLi9C1uQuiM6nPhXnaJv7WHdeJcNItBDOUMjoWY/edit?usp=sharing>

3) Bitbucket Pipelines:

Recorded Session:

<https://drive.google.com/file/d/0B0CxhpPBEQ7DTlJJYjcxeVdDcEU/view>

Link to Presentation:

<https://docs.google.com/a/appirio.com/presentation/d/1_4JFa5kWFmxccDrbWZkvuUXr7kItms6teAEuNfwgl3c/edit?usp=sharing>

Installing git :

<https://git-scm.com/downloads>

Installing SourceTree:

<https://www.sourcetreeapp.com/>

## List of Metadata that can be retrieved using ANT

ActionLinkGroupTemplate

AnalyticSnapshot

ApexClass

ApexComponent

ApexPage

ApexTestSuite

ApexTrigger

AppMenu

ApprovalProcess

AssignmentRule

AssignmentRules

AuraDefinition

AuraDefinitionBundle

AuthProvider

AutoResponseRule

AutoResponseRules

BusinessProcess

CallCenter

Certificate

ChannelLayout

CleanDataService

Community

CommunityTemplateDefinition

CommunityThemeDefinition

CompactLayout

ConnectedApp

ContentAsset

CorsWhitelistOrigin

CustomApplication

CustomApplicationComponent

CustomFeedFilter

CustomField

CustomLabel

CustomLabels

CustomMetadata

CustomObject

CustomObjectTranslation

CustomPageWebLink

CustomPermission

CustomSite

CustomTab

Dashboard

DataCategoryGroup

DelegateGroup

Document

DuplicateRule

EmailTemplate

EmbeddedServiceConfig

EscalationRule

EscalationRules

ExternalDataSource

ExternalServiceRegistration

FieldSet

FlexiPage

Flow

FlowDefinition

GlobalValueSet

GlobalValueSetTranslation

Group

HomePageComponent

HomePageLayout

InstalledPackage

KeywordList

Layout

LeadConvertSettings

Letterhead

ListView

ManagedTopic

ManagedTopics

Manual Post-Deployment Step

Manual Pre-Deployment Step

MatchingRule

MatchingRules

ModerationRule

NamedCredential

Network

PathAssistant

PermissionSet

PlatformCachePartition

Portal

PostTemplate

Profile

Queue

QuickAction

RecordType

RemoteSiteSetting

Report

ReportType

Role

Scontrol

Settings

SharingCriteriaRule

SharingOwnerRule

SharingReason

SharingRules

SiteDotCom

StandardValueSet

StandardValueSetTranslation

StaticResource

SynonymDictionary

Translations

ValidationRule

WebLink

Workflow

WorkflowAlert

WorkflowFieldUpdate

WorkflowFlowAction

WorkflowKnowledgePublish

WorkflowOutboundMessage

WorkflowRule

WorkflowSend

WorkflowTask

## Day 1

* Overview of Release management process.
* Moving components from DEV to QA, QA to UAT and UAT to Production.
* Maintaining documentation with all manual steps and master package throughout the deployments.
* Keeping DEV, QA, UAT orgs in sync. at any given point of time.
* ANT installation
* ANT commands :
  + Ant retrieve
  + Ant validate
  + Ant deploy
* Build properties : Stores credentials of source and target orgs.
* Build xml : Contains definition of ant commands and their attributes such as running specific tests at time of validation/deploy.
* Package xml : XML markup file that lists down all the components that need to be retrieved from source org.
* A brief demo of retrieving, validation and deployment using ANT.
* Examples of manual Pre and Post deployment steps.

## Day 2 & 3

* Short Demo on deploying a story (in CMC) from Dev org to QA org.
* Understanding the “**retrievedPackage**”
  + CustomField
  + CustomObject
  + Layout
  + Profile
  + RecordType
  + ValidationRule
  + ApexClass
  + ApexComponent
  + ApexPage
  + ApexTrigger
  + PermissionSet
  + Document
  + Letterhead
  + StaticResource
  + Workflow
  + WorkflowAlert
  + WorkflowFieldUpdate
  + WorkflowFlowAction
  + WorkflowOutboundMessage
  + WorkflowRule
  + WorkflowTask
* Best practices in deployment :
  + <https://docs.google.com/a/appirio.com/presentation/d/1hUuxMuVw4RFVfnJUZAHJWYXBVde-FXHRRrsIShlwYCk/edit?usp=sharing>
* Build.xml : Contains definition of ant commands and their attributes such as running specific tests at time of validation/deploy.
* Difference Between “Run All tests” “Run local tests” and ‘’Run specific tests’’.
* Run Specific Tests will run only specific test classes whether its prod or sandbox.

## Day 4

* Run Specific Tests will run only specific test classes whether its prod or sandbox.
* Resolving Validation Errors based on Metadata types.
  + Adding missing components in package xml
  + Sequence of resolving errors
  + Checking source and target orgs for inconsistencies
* Assignment :
  + <https://docs.google.com/a/appirio.com/document/d/1Hrh6ndlUNE5ZnFP11mUuHDQDLH4O7WgcZnGXGRh00JE/edit?usp=sharing>

## Day 5

Assignment Check

## Day 6

Assignment Demo with understanding

Question/ Answers

## Day 7

Smartsheet and RM Toolbox for keeping proper documentation during deployments.

Smartsheet :

1) Basic playing around smartsheet.  
2) Creating new smartsheet.  
3) Creating web forms for smartsheet.  
4) Color and naming conventions.  
5) Working in existing smartsheet, adding deployment steps.  
6) Criterias for creating supplementary packages.  
7) Uploading new version for master package.

RM toolbox :

1) Basic user and project setup   
2) Understanding of functionalities in RM toolbox  
3) Logging in using CMC, Retrieving issues and stories by number.  
4) Maintaining naming convention for versions.  
5) Deploying stories and issues to target orgs.  
6) Updating master xml and noting manual steps in smartsheet.

RM Toolbox Install Guide:

<https://docs.google.com/document/d/1RFJ2zUnnO8YnS27hU51fDq1i72aUbCjtBFry-Frh5Mc/edit>

## Day 8

Code conflicts

Items that we need before UAT preparation :

* Deployment plan that contains Master Package xml and manual steps
* 0 Retrieval errors
* Test coverage and no test failures
* Code freeze
* Backup of UAT org
* Code conflict resolution from UAT and QA orgs
* Pre manual steps to be done in advance

Demo of an issue deployment with proper documentation maintenance (given by participants)

Question/ Answers

## Day 9

* Introduction to Service Max
* SFMs, SFWs and setup of service max
* Migration tool
* Errors in service max deployments
* Demo of Issue deployments

## Day 10

1. Version Control with Git and Bitbucket.
2. Installations :
   1. <https://git-scm.com/downloads>
   2. <https://www.sourcetreeapp.com/>
3. Retrieving Story/Issue
4. Taking Clone of master
5. Switching to local branch
6. Make changes in local clone copy
7. Push changes to master
8. Merge into master upon validation