

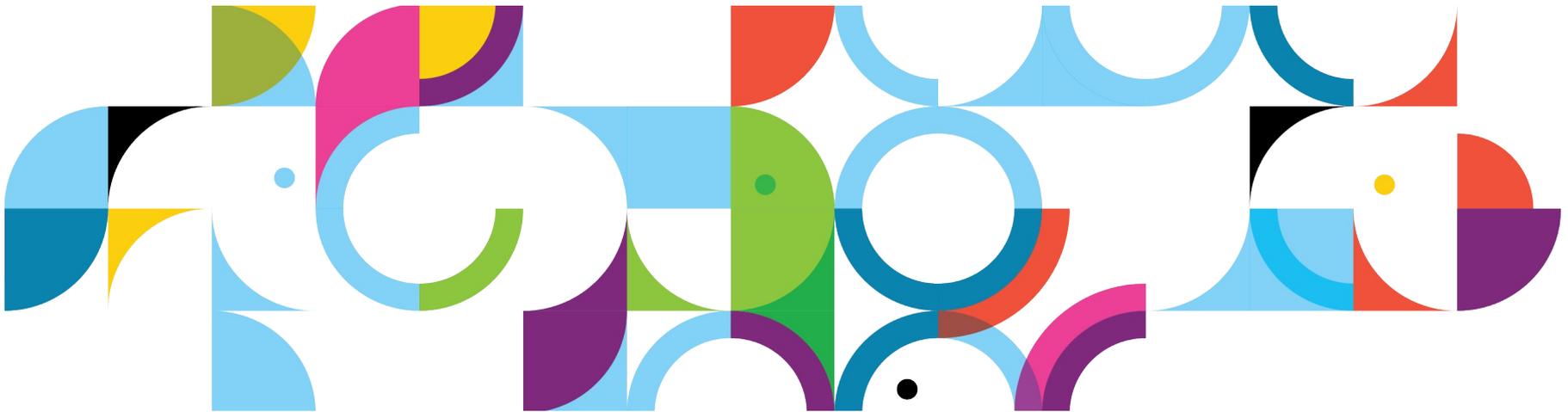
# WebSphere Portal Migration: Best Practices

## Open Mic

13 March 2013

[Joseph John](#) | Portal Migration Development Lead

IBM Collaboration Solutions





## Agenda

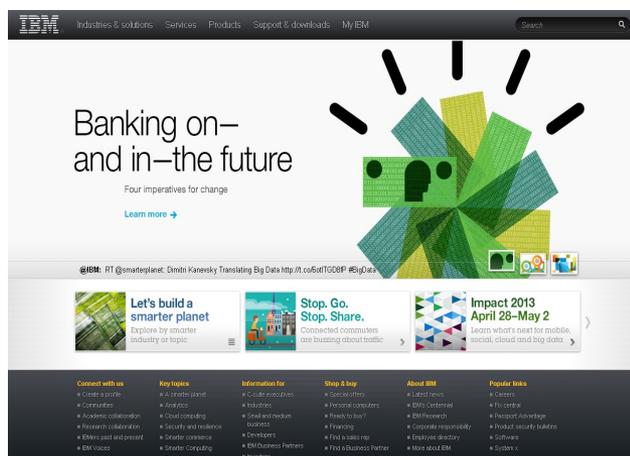
- WebSphere Portal Migration
- Migration Walkthrough
- Migration Strategies
- Managed Pages
- Portal 8 Static Pages
- Resource Links
- Q&A



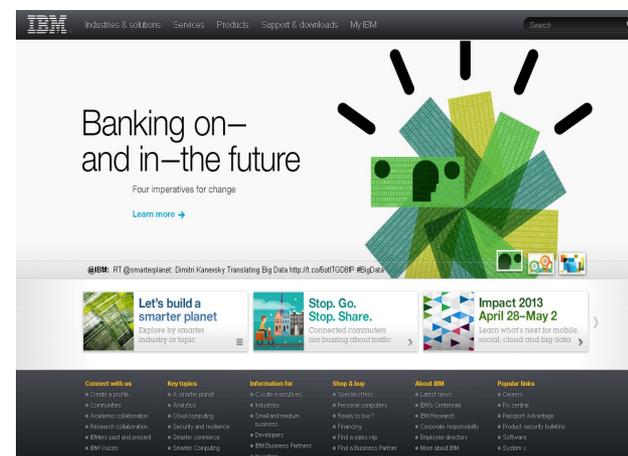
# WebSphere Portal Migration

- The goal of Portal Migration is to move all content, applications, and pages from the source to target environment while maintaining the same look and feel of the original website.
  - To the end user, the website should look and be functionally the same.
  - New Portal features are installed, but not enabled.
  - Some applications and content may need to be manually updated to meet new specifications.

Before



After





# WebSphere Portal Migration

- Migration can be performed locally or remote.
- Migration can be non-destructive and allow both the source and target to run simultaneously.
- WCM Support can be added to a Portal Server during migration.
- Migration is only supported from the two previous main versions.
  - v6.1 → v8 is supported
  - v7 → v8 is supported
  - v6 → v8 is not supported
- Migration is not cross platform.
  - v7 on Linux → v8 on Linux is supported
  - v7 on Windows → v8 on Linux is not supported
  - Platform changes should be done as a separate task before or after migration.
- Migration does not allow changing cell or node names.
  - Cell and node name changes should be done as a separate task before or after migration.



# Before Starting

- Plan
  - Define complete for each environment
  - Create an iterative migration plan
  - Device a rollback plan
- Prepare
  - Scope required resources and time
  - Obtain necessary software and hardware
  - Determine which applications need to be updated and begin updating them
- Practice
  - Practice and become familiar with the process
  - Stage a migration practice run using an environment that mimics the production environment as closely as possible



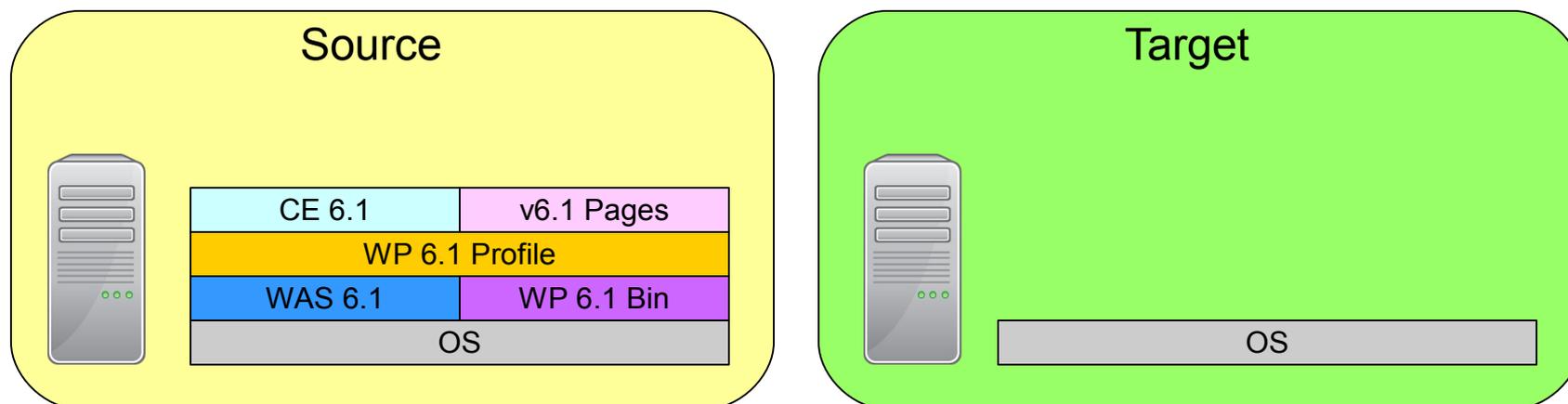
## Migration Walkthrough

- Part 1: Prepare source and target environment
- Part 2: Import source Portal Profile to target environment
- Part 3: Connect target environment to copies of the Databases
- Part 4: Upgrade the target Portal Profile
- Part 5: Post migration steps



# Prepare Source and Target Environment

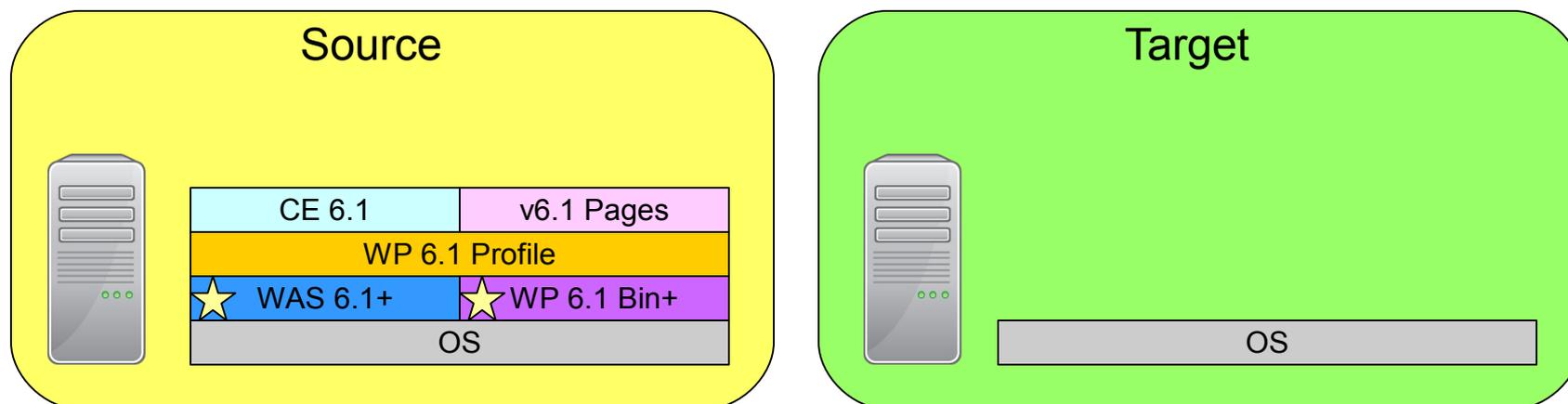
- S: Apply latest fix pack
- T: Binary-only install
- T: Apply latest fix pack
- T: Create remote migration package
- S: Copy remote migration package
- S: Disable Automatic synchronization
- S: Prevent changes





## Prepare Source and Target Environment

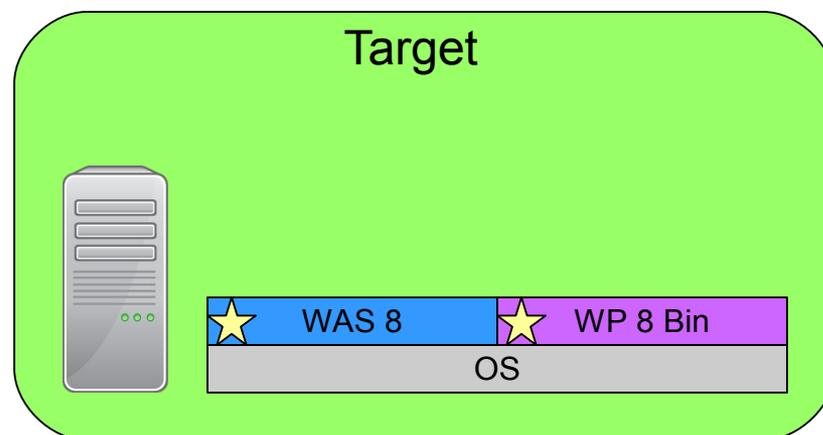
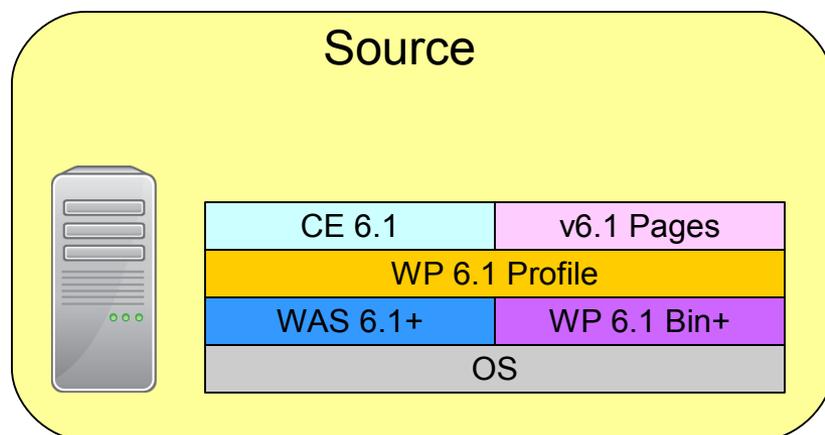
- S: Apply latest fix pack
- T: Binary-only install
- T: Apply latest fix pack
- T: Create remote migration package
- S: Copy remote migration package
- S: Disable Automatic synchronization
- S: Prevent changes





# Prepare Source and Target Environment

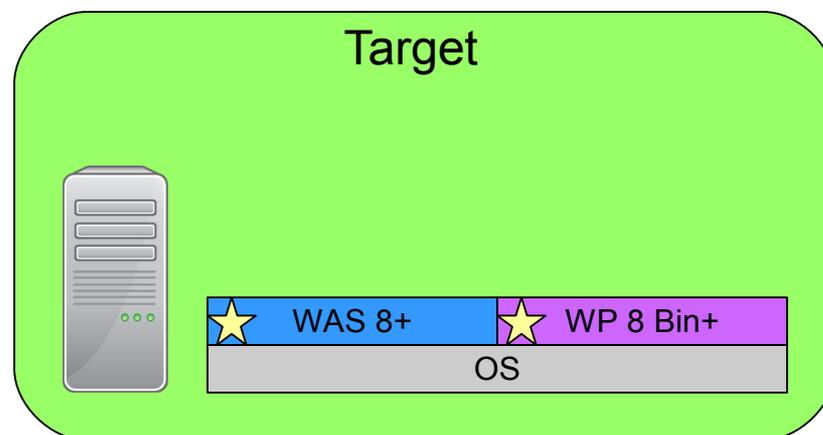
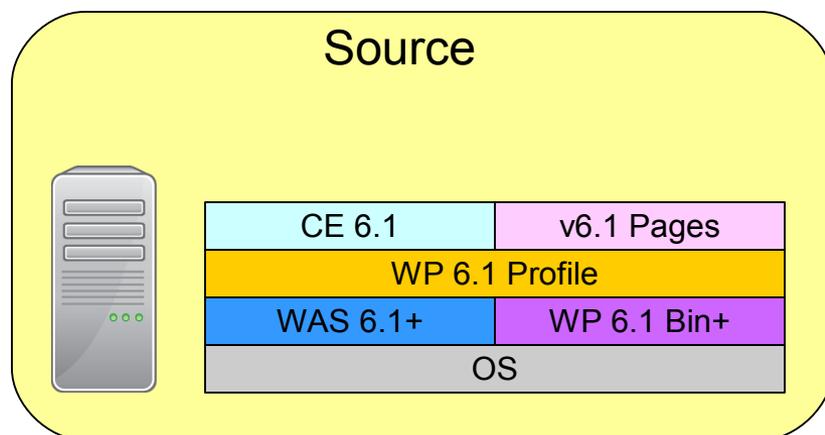
- S: Apply latest fix pack
- **T: Binary-only install**
- T: Apply latest fix pack
- T: Create remote migration package
- S: Copy remote migration package
- S: Disable Automatic synchronization
- S: Prevent changes





## Prepare Source and Target Environment

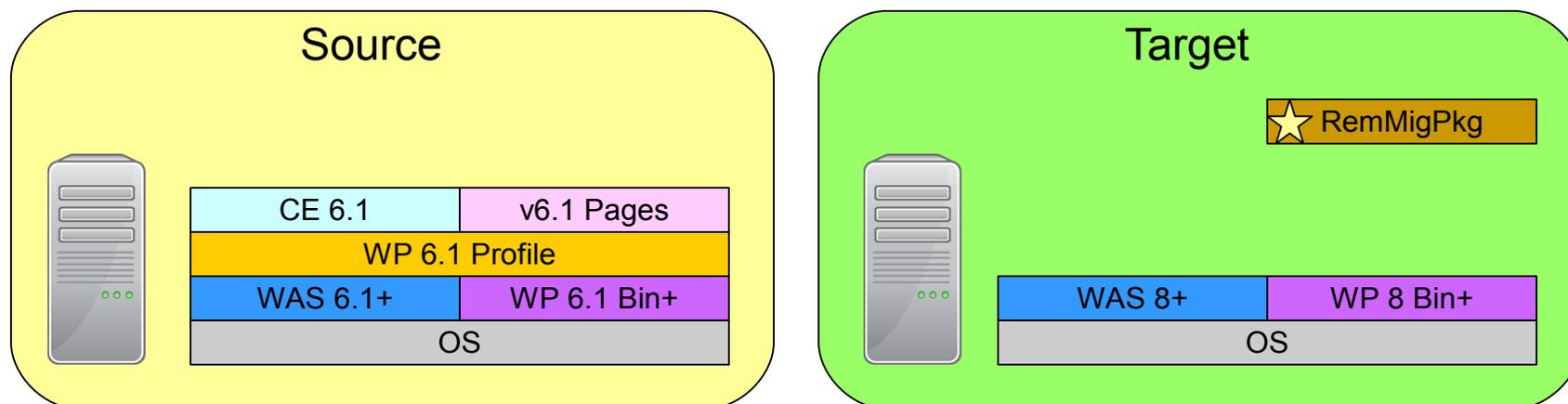
- S: Apply latest fix pack
- T: Binary-only install
- T: Apply latest fix pack
- T: Create remote migration package
- S: Copy remote migration package
- S: Disable Automatic synchronization
- S: Prevent changes





# Prepare Source and Target Environment

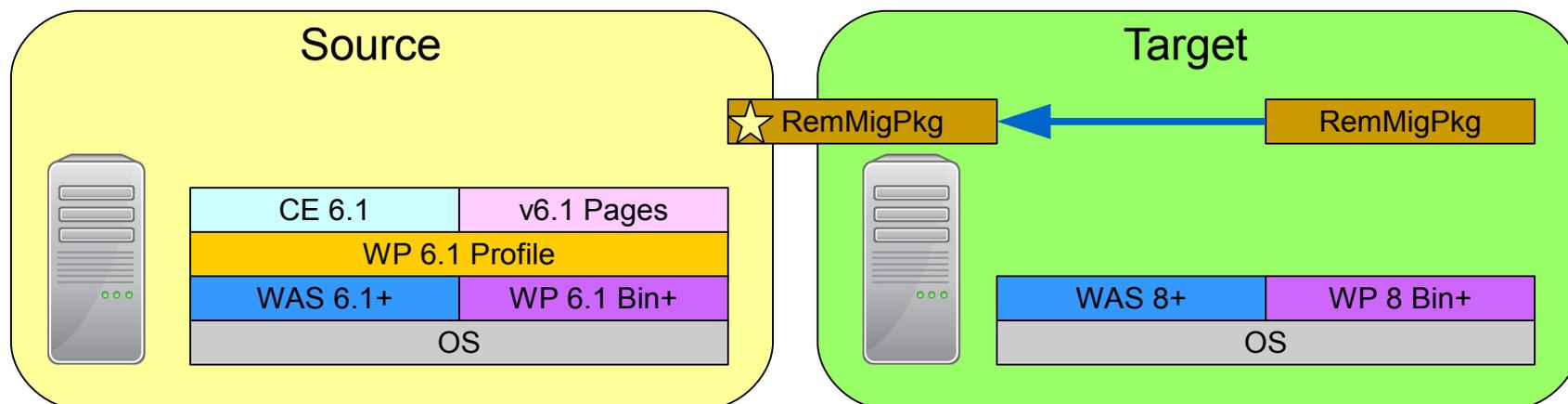
- S: Apply latest fix pack
- T: Binary-only install
- T: Apply latest fix pack
- **T: Create remote migration package**
- S: Copy remote migration package
- S: Disable Automatic synchronization
- S: Prevent changes





# Prepare Source and Target Environment

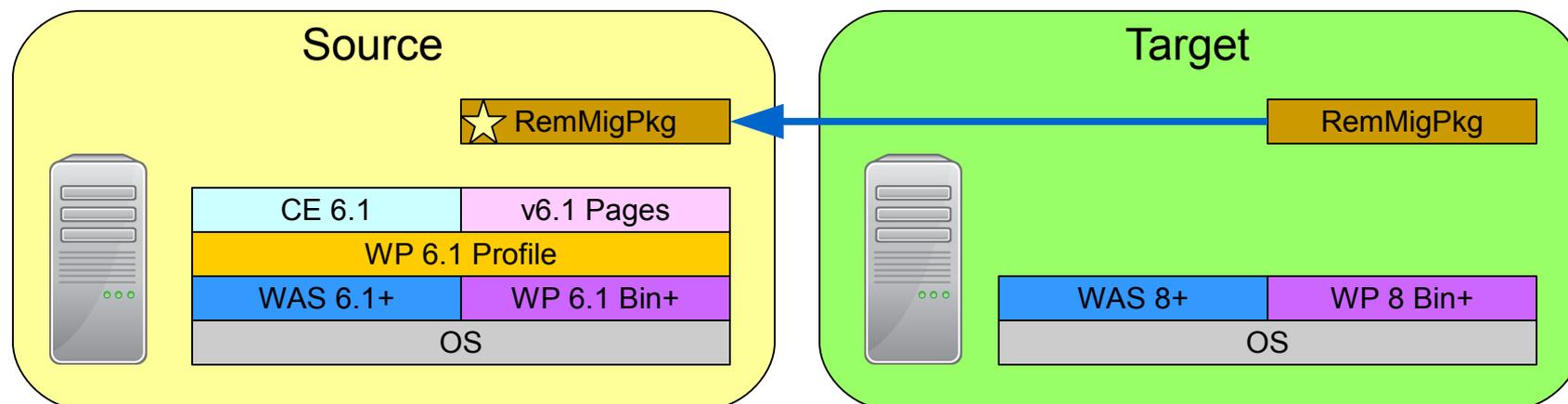
- S: Apply latest fix pack
- T: Binary-only install
- T: Apply latest fix pack
- T: Create remote migration package
- S: Copy remote migration package
- S: Disable Automatic synchronization
- S: Prevent changes





## Prepare Source and Target Environment

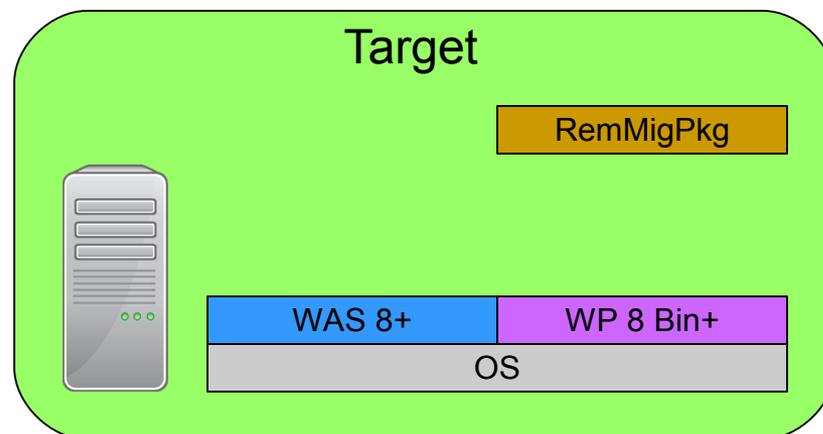
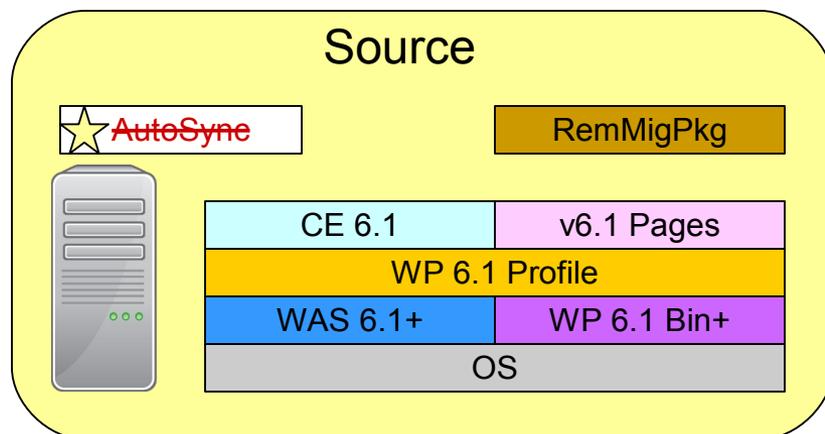
- S: Apply latest fix pack
- T: Binary-only install
- T: Apply latest fix pack
- T: Create remote migration package
- S: Copy remote migration package
- S: Disable Automatic synchronization
- S: Prevent changes





# Prepare Source and Target Environment

- S: Apply latest fix pack
- T: Binary-only install
- T: Apply latest fix pack
- T: Create remote migration package
- S: Copy remote migration package
- **S: Disable Automatic synchronization**
- S: Prevent changes

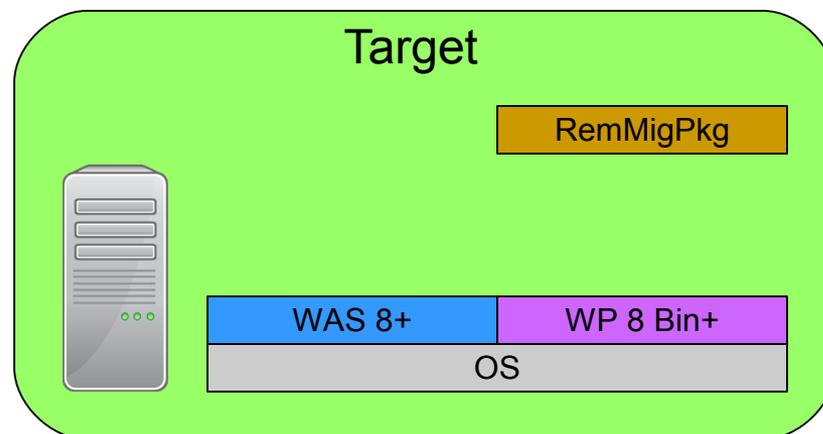
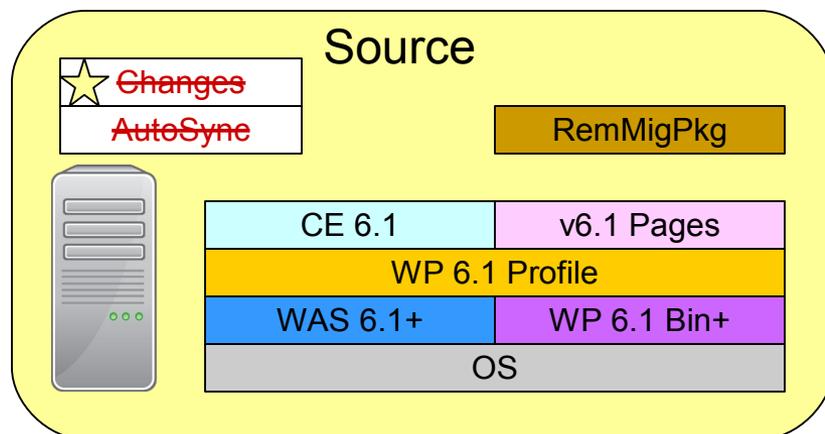




# Prepare Source and Target Environment

- S: Apply latest fix pack
- T: Binary-only install
- T: Apply latest fix pack
- T: Create remote migration package
- S: Copy remote migration package
- S: Disable Automatic synchronization
- S: Prevent changes

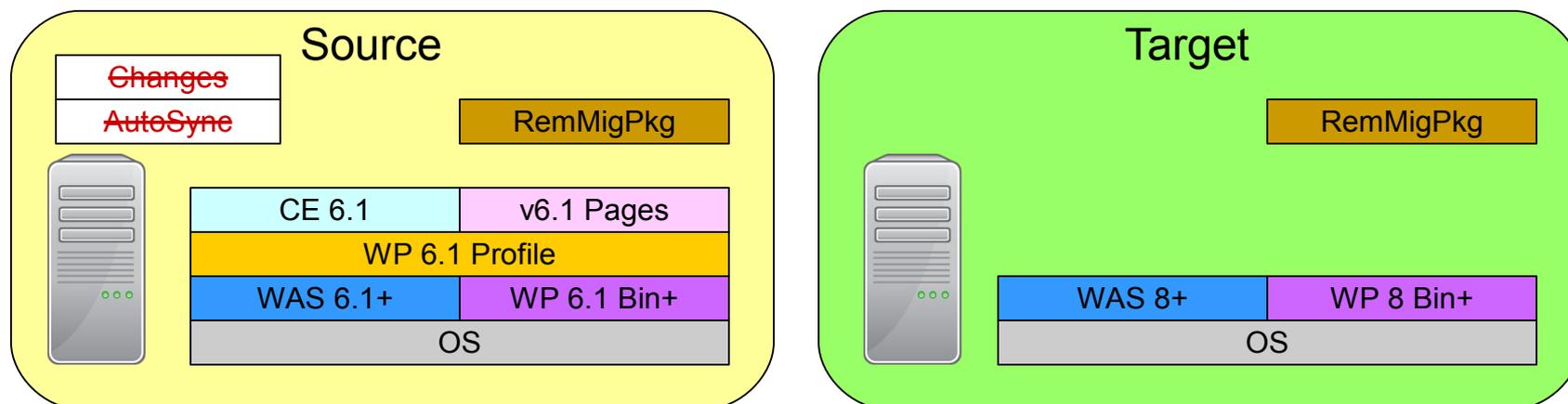
Refer to the wiki for additional preparation steps such as making backups, updating database statistics, and ensuring there is no locked content.





## Best Practices

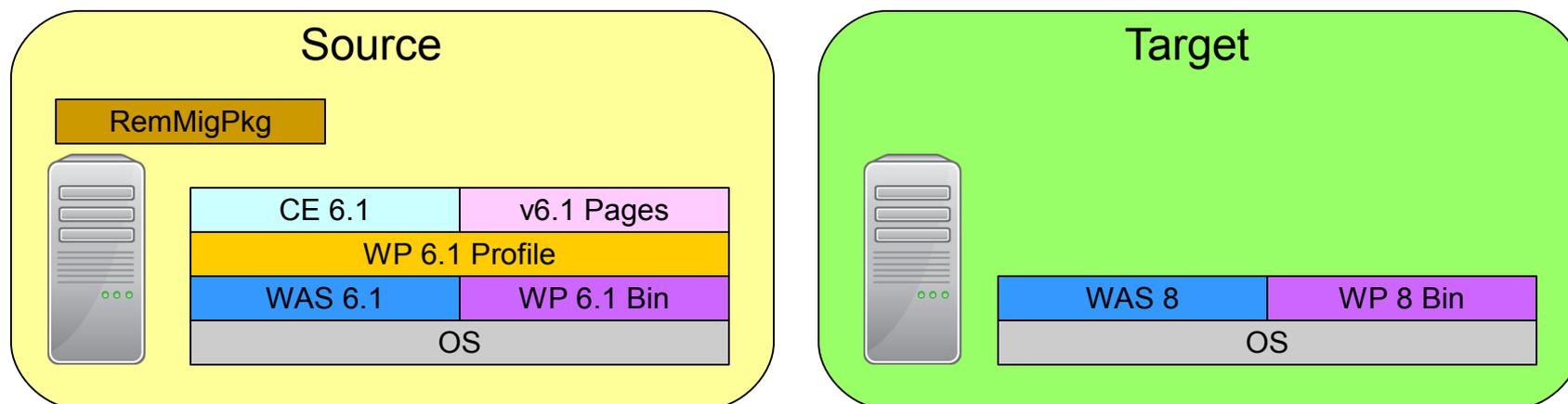
- Make sure to apply latest fix packs to source and target
- Disable AutoSync
- Limit changes in source environment





# Import Source Portal Profile to Target Environment

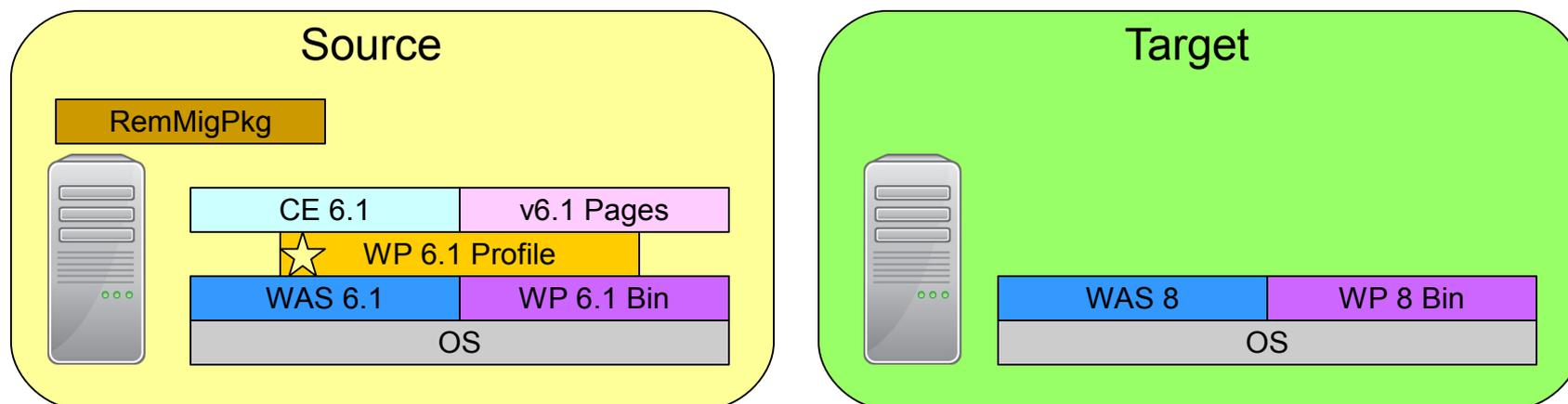
- S: Export profile using `WASPreUpgrade`
- T: Copy exported backup profile
- T: Create a default profile using `manageprofiles`
- T: Import profile using `WASPostUpgrade`
- T: Upgrade ConfigEngine using `upgradeConfigEngine`





# Import Source Portal Profile to Target Environment

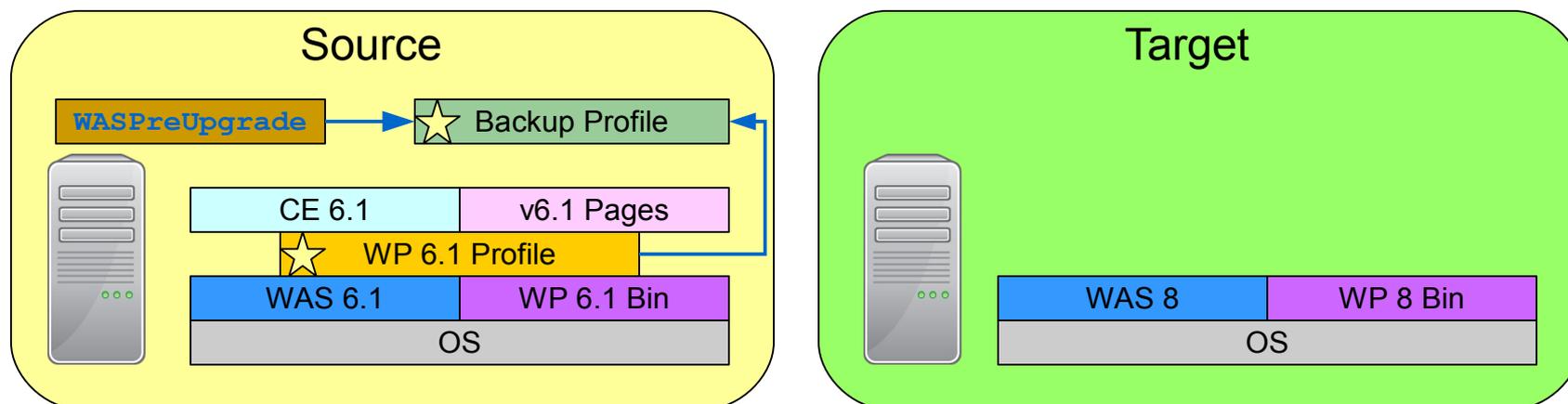
- S: Export profile using **WASPreUpgrade**
  - Clean profile prior to exporting
  - Specify 2GB heap size with `-javaoption -Xmx2048m`
- T: Copy exported backup profile
- T: Create a default profile using `manageprofiles`
- T: Import profile using **WASPostUpgrade**
- T: Upgrade ConfigEngine using `upgradeConfigEngine`





# Import Source Portal Profile to Target Environment

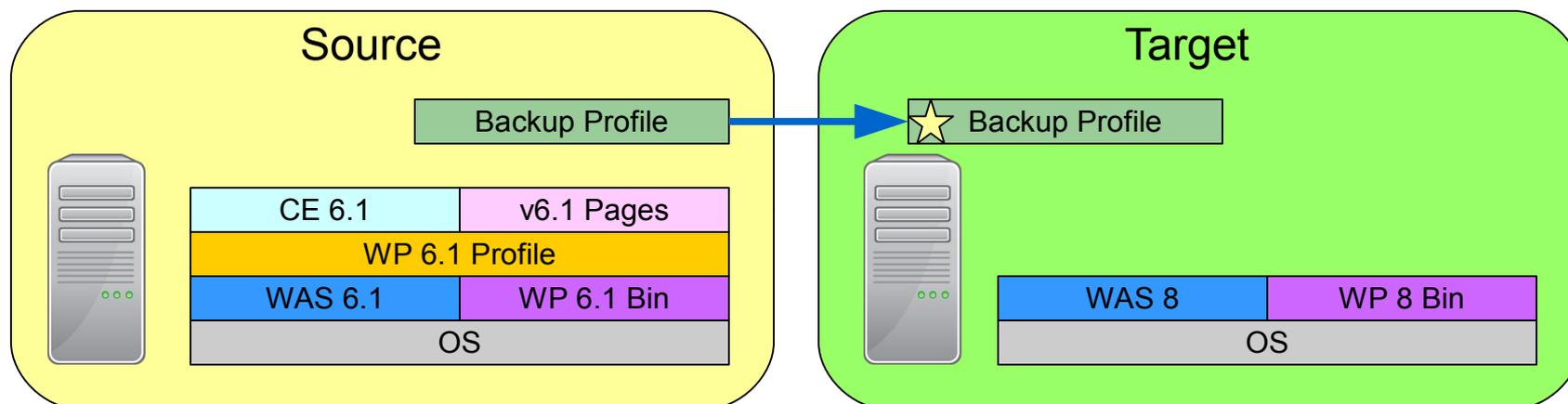
- S: Export profile using **WASPreUpgrade**
  - Clean profile prior to exporting
  - Specify 2GB heap size with `-javaoption -Xmx2048m`
- T: Copy exported backup profile
- T: Create a default profile using `manageprofiles`
- T: Import profile using **WASPostUpgrade**
- T: Upgrade ConfigEngine using `upgradeConfigEngine`





# Import Source Portal Profile to Target Environment

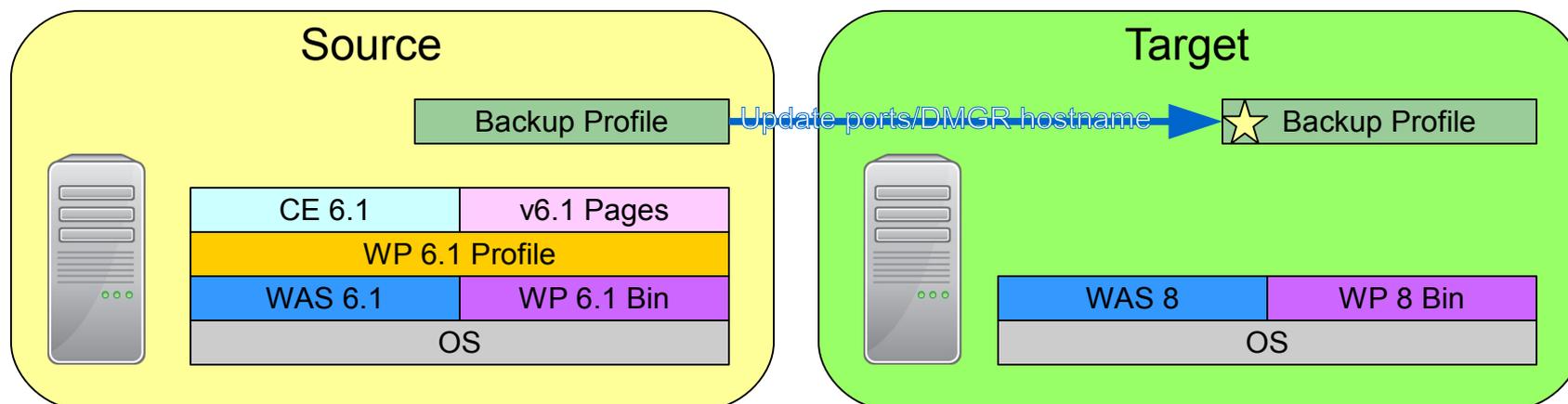
- S: Export profile using `WASPreUpgrade`
- T: Copy exported backup profile
  - Update `wkplc*.properties` files
  - Clean backup profile
- T: Create a default profile using `manageprofiles`
- T: Import profile using `WASPostUpgrade`
- T: Upgrade ConfigEngine using `upgradeConfigEngine`





# Import Source Portal Profile to Target Environment

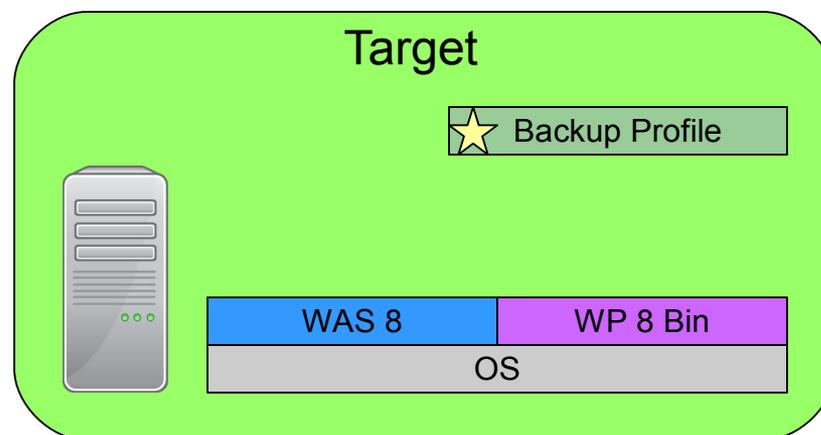
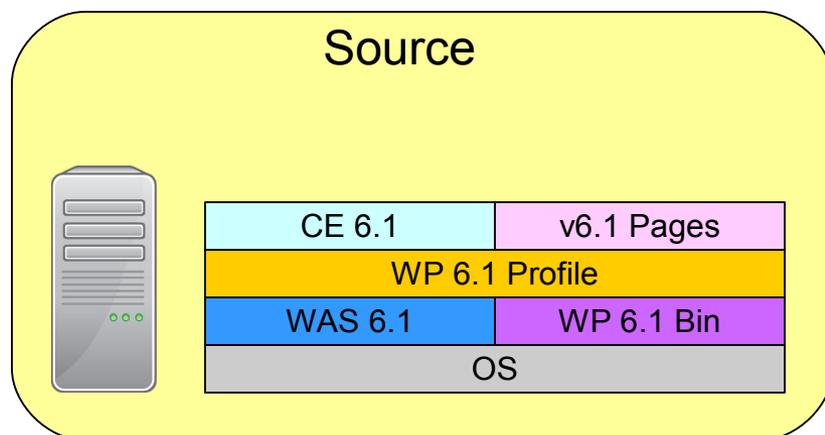
- S: Export profile using `WASPreUpgrade`
- T: Copy exported backup profile
  - Update `wkplc*.properties` files
  - Clean backup profile
- T: Create a default profile using `manageprofiles`
- T: Import profile using `WASPostUpgrade`
- T: Upgrade ConfigEngine using `upgradeConfigEngine`





# Import Source Portal Profile to Target Environment

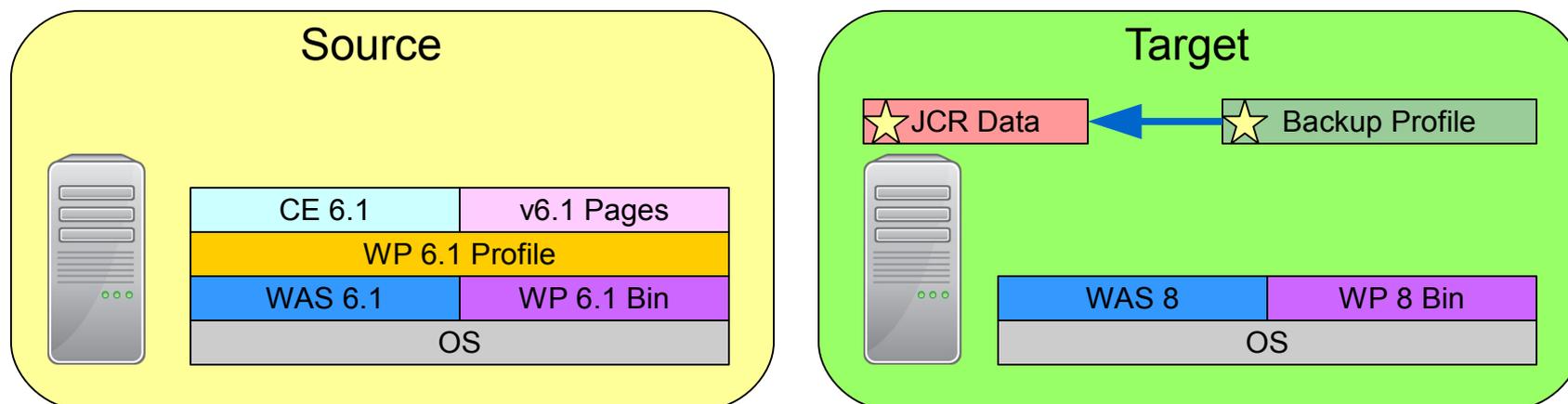
- S: Export profile using `WASPreUpgrade`
- T: Copy exported backup profile
  - Update `wkplc*.properties` files
  - Clean backup profile
- T: Create a default profile using `manageprofiles`
- T: Import profile using `WASPostUpgrade`
- T: Upgrade ConfigEngine using `upgradeConfigEngine`





# Import Source Portal Profile to Target Environment

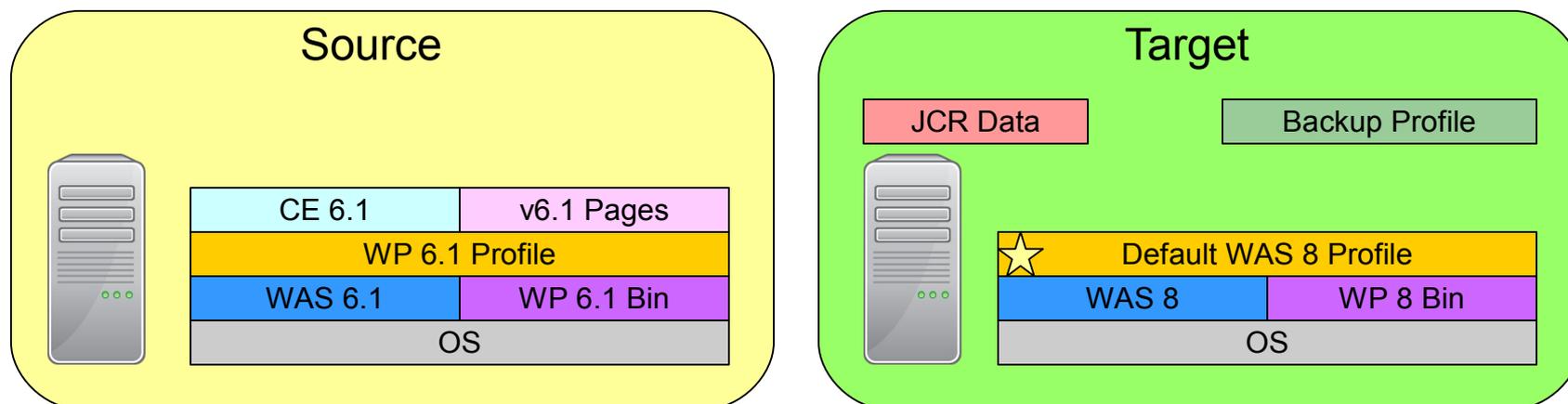
- S: Export profile using `WASPreUpgrade`
- T: Copy exported backup profile
  - Update `wkplc*.properties` files
  - Clean backup profile
- T: Create a default profile using `manageprofiles`
- T: Import profile using `WASPostUpgrade`
- T: Upgrade ConfigEngine using `upgradeConfigEngine`





# Import Source Portal Profile to Target Environment

- S: Export profile using `WASPreUpgrade`
- T: Copy exported backup profile
- T: Create a default profile using `manageprofiles`
- T: Import profile using `WASPostUpgrade`
- T: Upgrade ConfigEngine using `upgradeConfigEngine`

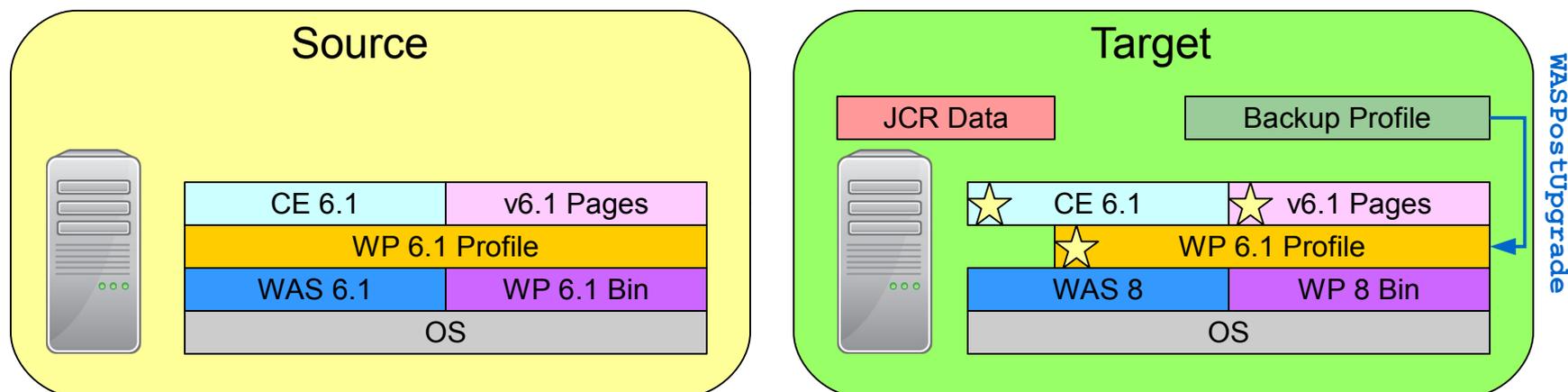




# Import Source Portal Profile to Target Environment

- S: Export profile using `WASPreUpgrade`
- T: Copy exported backup profile
- T: Create a default profile using `manageprofiles`
- T: Import profile using `WASPostUpgrade`
  - Specify 2GB heap size with `-javaoption -Xmx2048m`
  - Restore JCR data to backup profile
- T: Upgrade ConfigEngine using `upgradeConfigEngine`

Make sure to bring over any dependencies for any custom code.

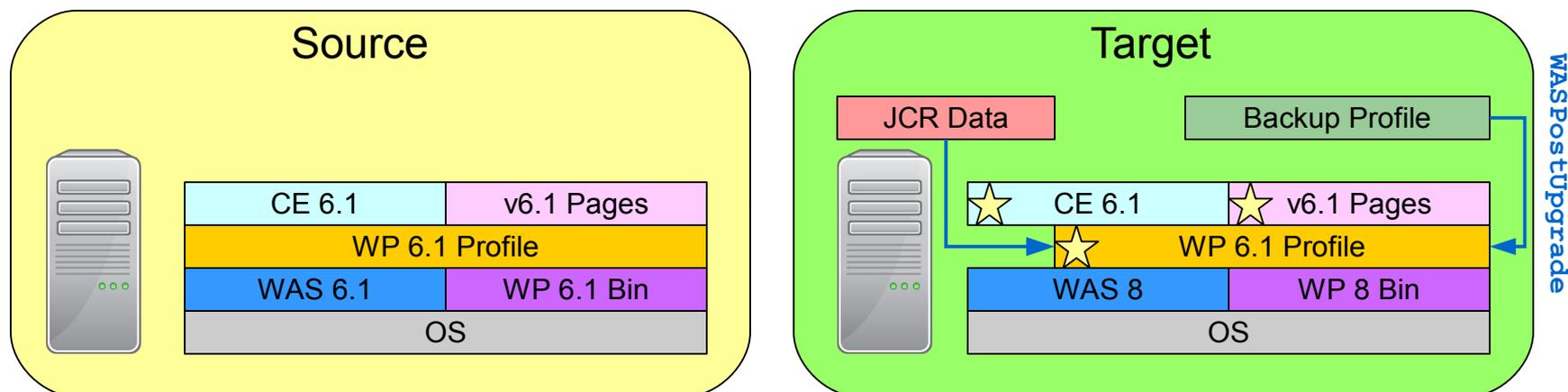




# Import Source Portal Profile to Target Environment

- S: Export profile using `WASPreUpgrade`
- T: Copy exported backup profile
- T: Create a default profile using `manageprofiles`
- T: Import profile using `WASPostUpgrade`
  - Specify 2GB heap size with `-javaoption -Xmx2048m`
  - Restore JCR data to backup profile
- T: Upgrade ConfigEngine using `upgradeConfigEngine`

Make sure to bring over any dependencies for any custom code.

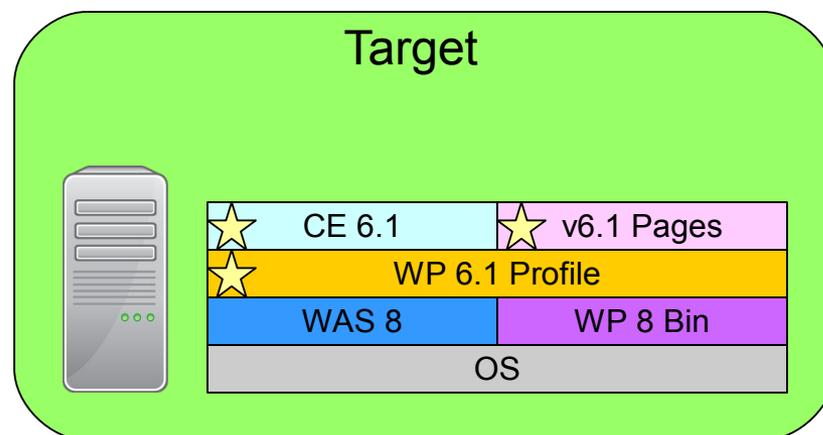
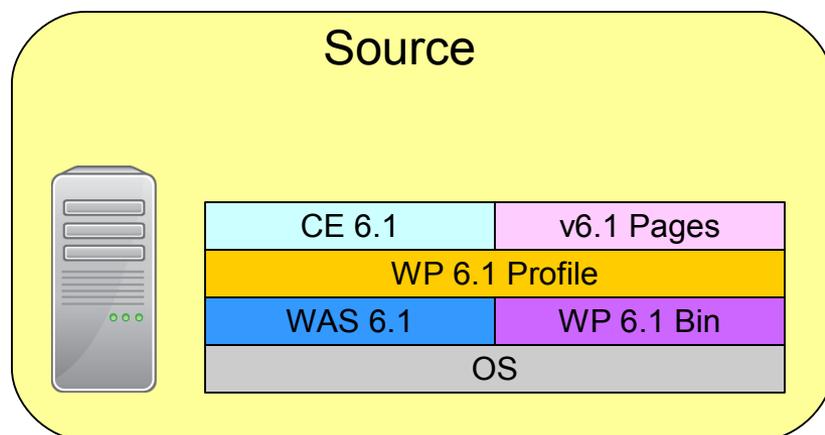




# Import Source Portal Profile to Target Environment

- S: Export profile using `WASPreUpgrade`
- T: Copy exported backup profile
- T: Create a default profile using `manageprofiles`
- T: Import profile using `WASPostUpgrade`
  - Specify 2GB heap size with `-javaoption -Xmx2048m`
  - Restore JCR data to backup profile
- T: Upgrade ConfigEngine using `upgradeConfigEngine`

Make sure to bring over any dependencies for any custom code.

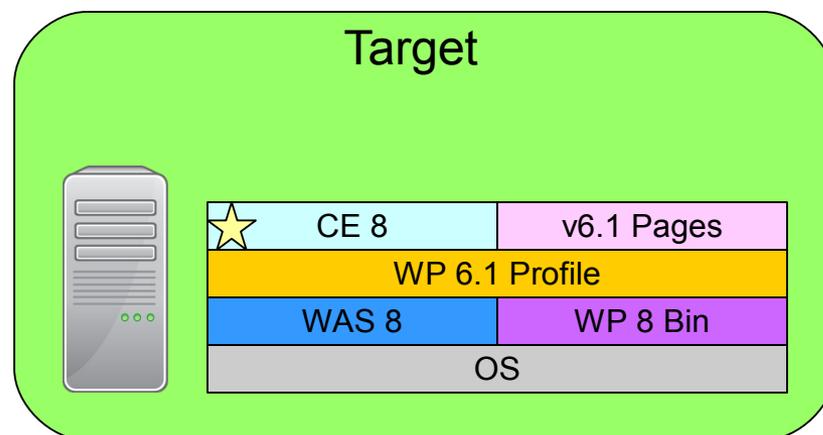
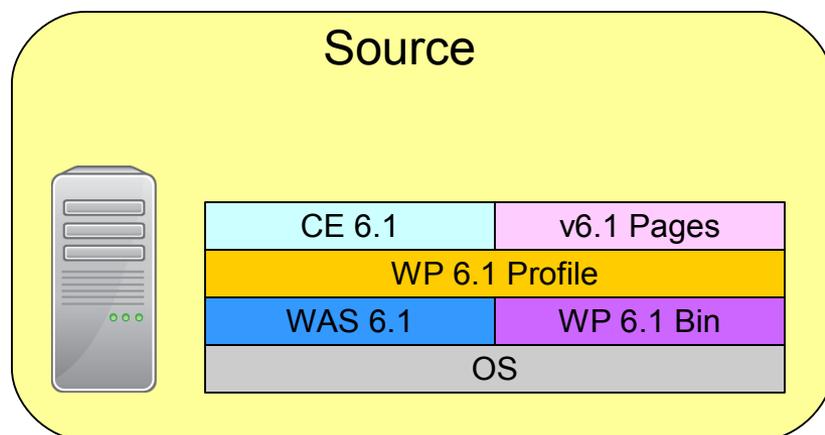




# Import Source Portal Profile to Target Environment

- S: Export profile using **WASPreUpgrade**
- T: Copy exported backup profile
- T: Create a default profile using **manageprofiles**
- T: Import profile using **WASPostUpgrade**
- T: Upgrade ConfigEngine using **upgradeConfigEngine**

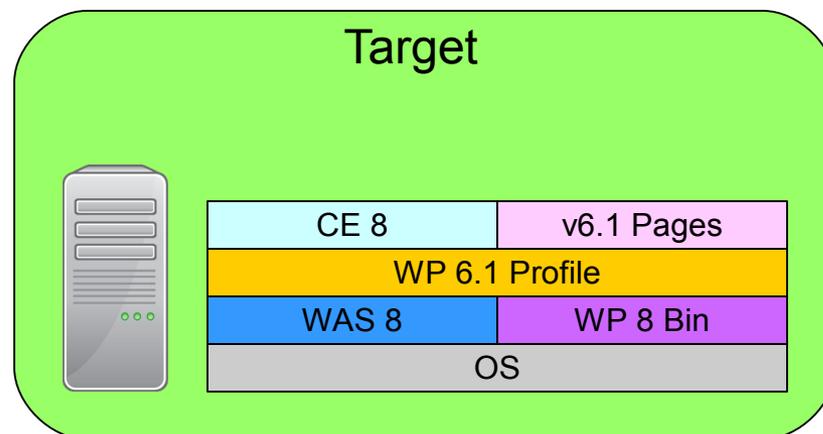
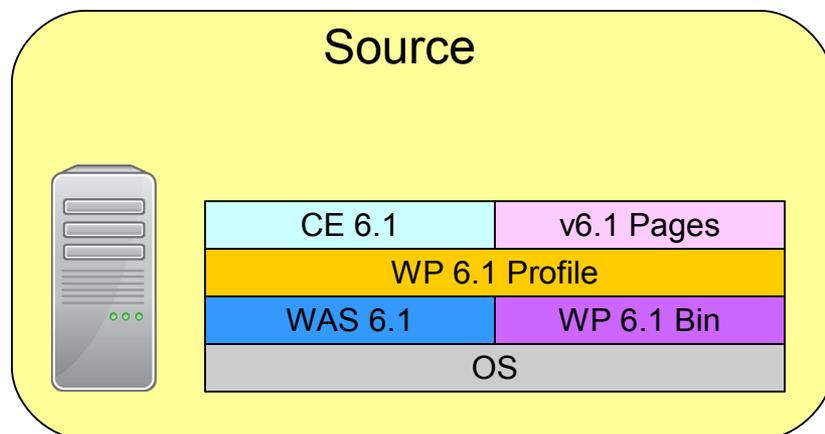
At this point you can start the Portal Server for a sanity check. It should start and serve web pages, but expect to see many errors in the log files.





# Best Practices

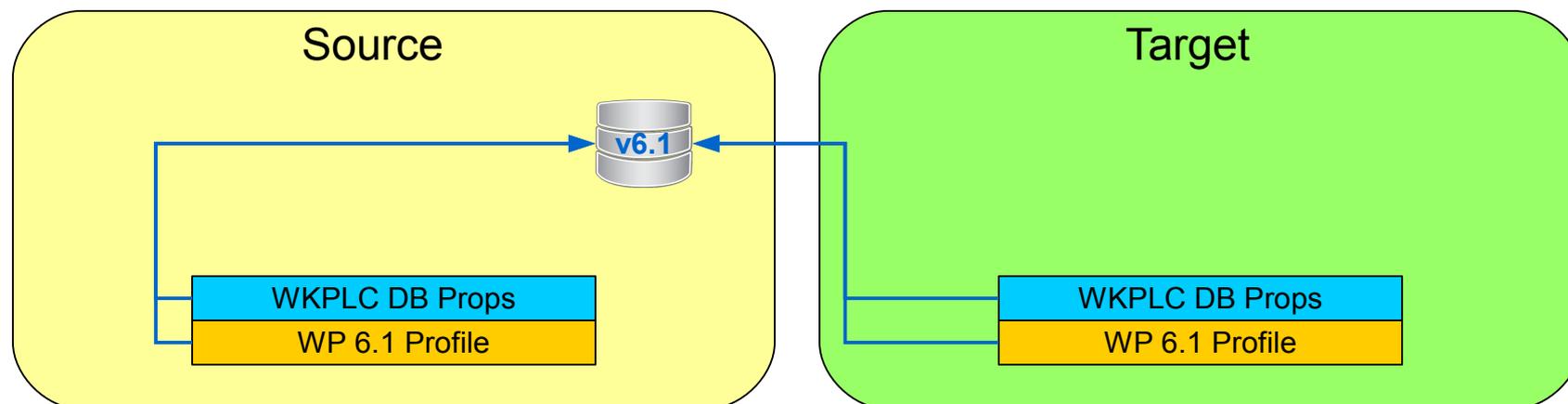
- Clean up **source** profile and **backup** profile to prevent OOM
  - **wp\_profile** should be less than 2GB
  - Temporarily remove JCR Data if needed
- Use appropriate heap size for **WASPreUpgrade** and **WASPostUpgrade**
  - Usually 2GB is sufficient, but larger can be used if enough physical memory
- If a local standalone migration, update **serverindex.xml** ports in backup profile to prevent port collisions
- Copy any custom jars or files that will be needed by your target environment





## Connect Target Environment to Database Copies

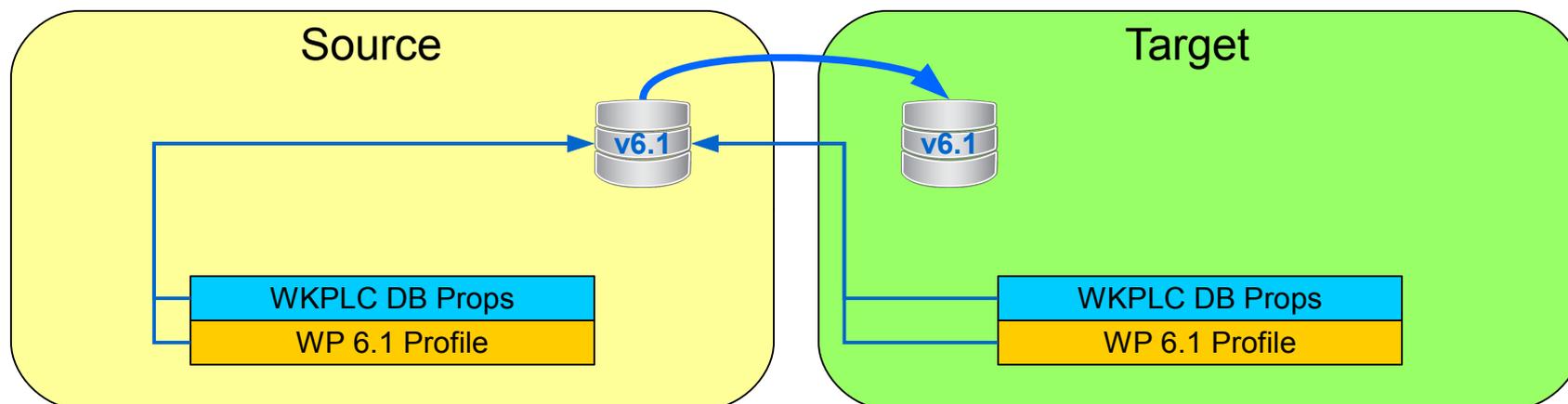
- S: Make copies of the databases
- T: Update the `db_type` and `db_domain` properties files
- T: Run `ConfigEngine validate-database` task
- T: Run `ConfigEngine connect-database` task
- T: **For z/OS only**, update the database with `ConfigEngine upgrade-database`





## Connect Target Environment to Database Copies

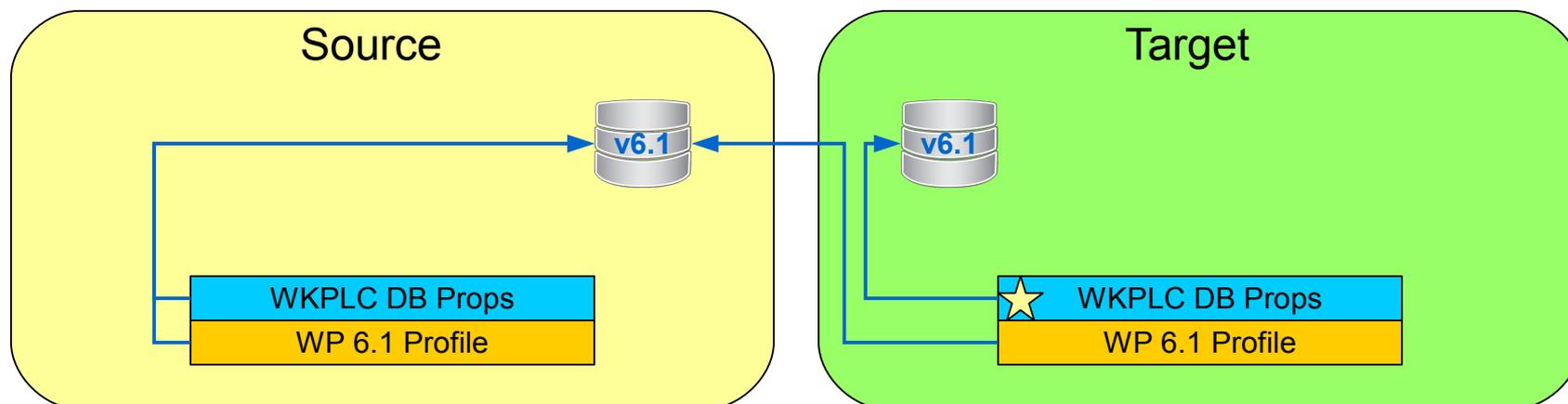
- S: Make copies of the databases
- T: Update the `db_type` and `db_domain` properties files
- T: Run `ConfigEngine validate-database` task
- T: Run `ConfigEngine connect-database` task
- T: **For z/OS only**, update the database with `ConfigEngine upgrade-database`





# Connect Target Environment to Database Copies

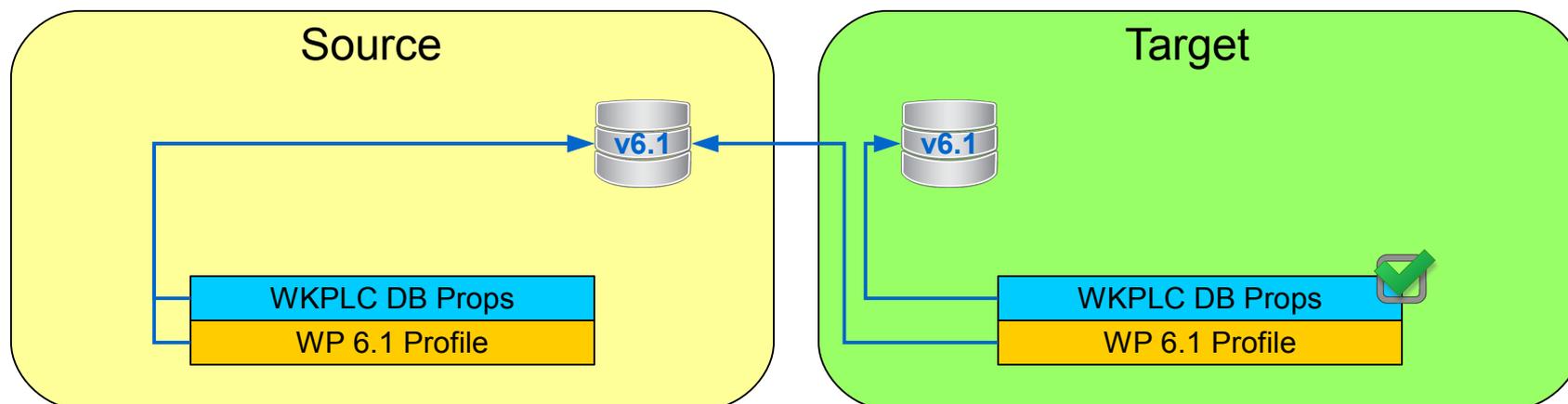
- S: Make copies of the databases
- T: Update the **db\_type** and **db\_domain** properties files
  - JDBC 4 drivers are required
- T: Run ConfigEngine `validate-database` task
- T: Run ConfigEngine `connect-database` task
- T: For z/OS only, update the database with ConfigEngine `upgrade-database`





# Connect Target Environment to Database Copies

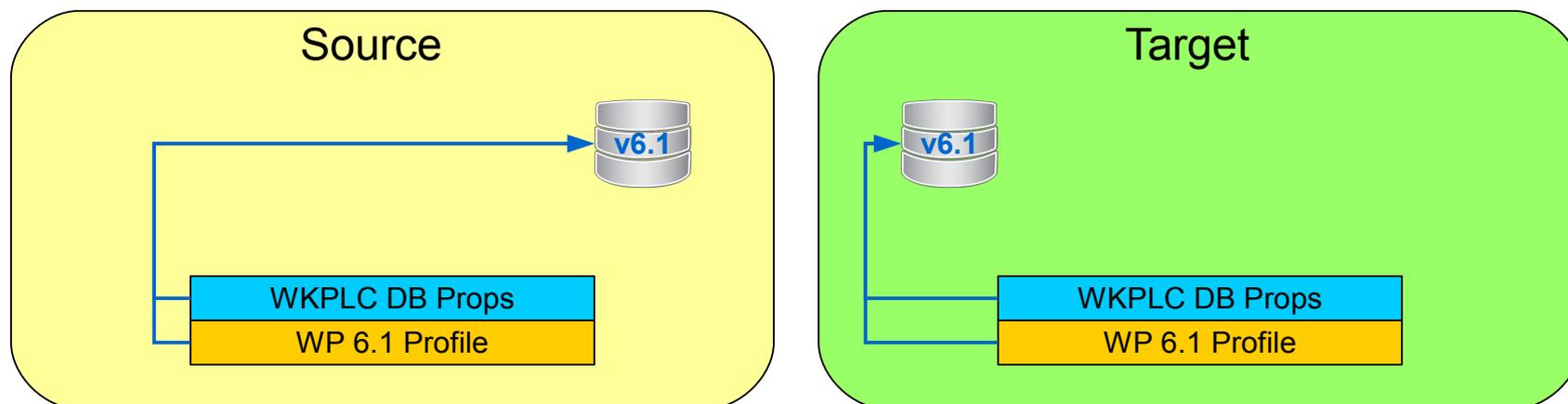
- S: Make copies of the databases
- T: Update the `db_type` and `db_domain` properties files
- T: Run **ConfigEngine validate-database** task
- T: Run **ConfigEngine connect-database** task
- T: **For z/OS only**, update the database with **ConfigEngine upgrade-database**





# Connect Target Environment to Database Copies

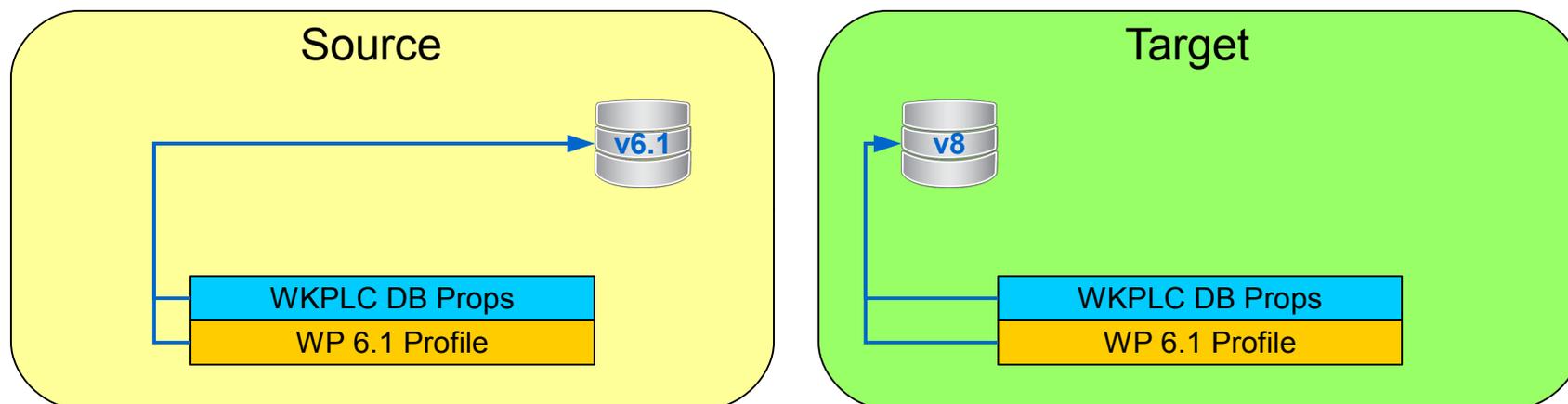
- S: Make copies of the databases
- T: Update the `db_type` and `db_domain` properties files
- T: Run `ConfigEngine validate-database` task
- T: Run **ConfigEngine connect-database** task
- T: For z/OS only, update the database with `ConfigEngine upgrade-database`





# Connect Target Environment to Database Copies

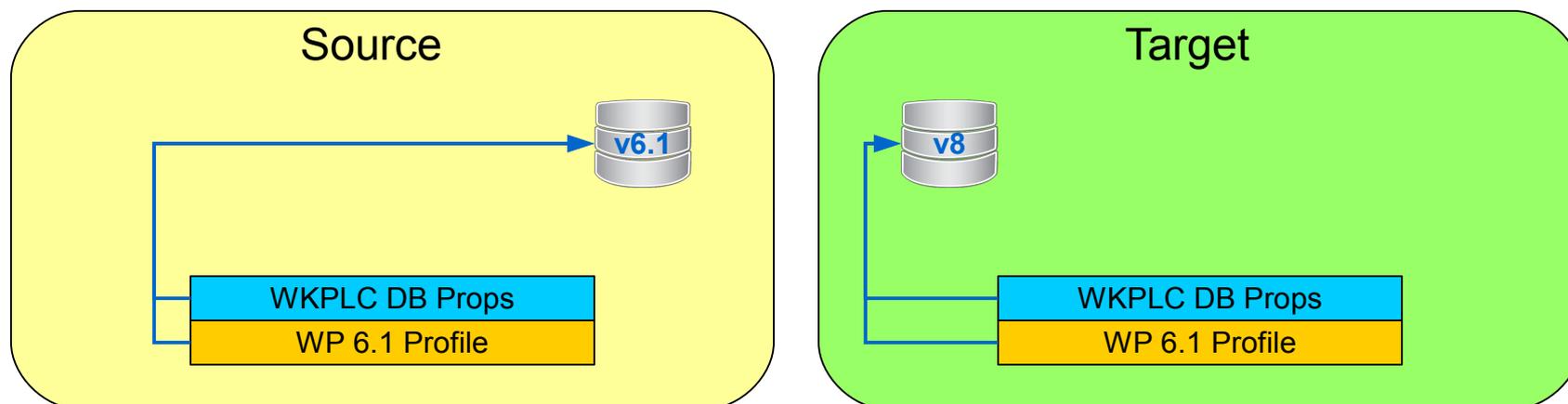
- S: Make copies of the databases
- T: Update the `db_type` and `db_domain` properties files
- T: Run `ConfigEngine validate-database` task
- T: Run `ConfigEngine connect-database` task
- T: **For z/OS only**, update the database with `ConfigEngine upgrade-database`





## Best Practices

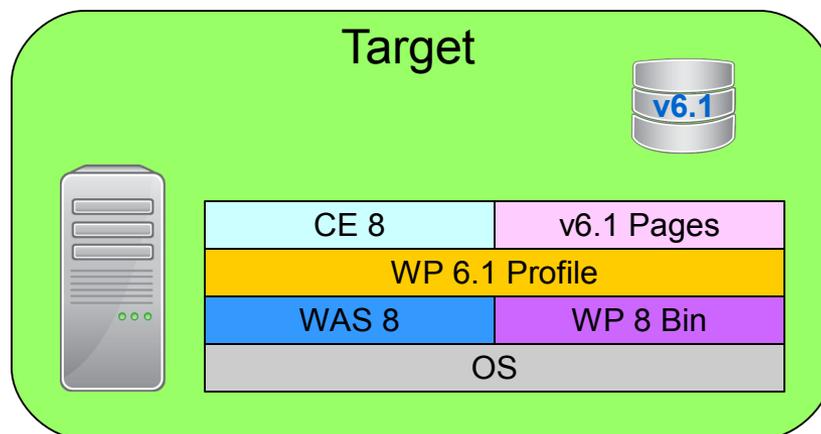
- Use copies of the Databases
- Make sure to update database properties in target environment and specify JDBC 4 drivers
- There are many database updates and the database conversion will generally take the majority of the time
- Invalid or corrupt data may exist in the DB from previous versions or test code so make sure to use latest fix pack





# Upgrade the target Portal Profile

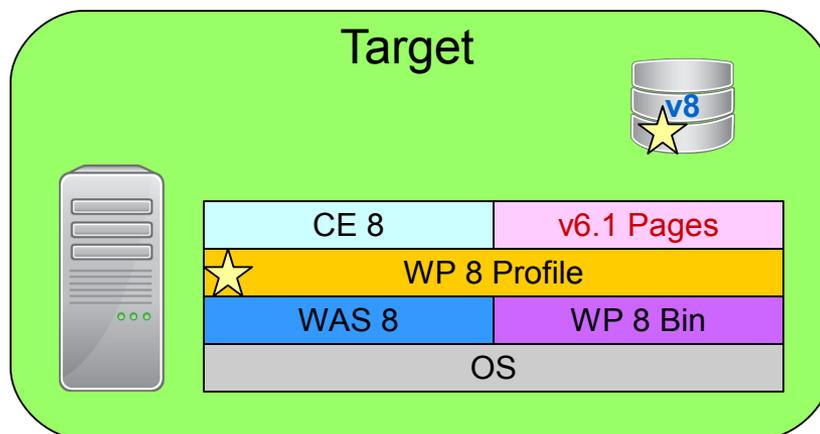
- Run `ConfigEngine upgrade-profile`





# Upgrade the target Portal Profile

- Run **ConfigEngine upgrade-profile**
  - Upgrades profile to v8
  - Upgrades Databases
  - Pages are not modified



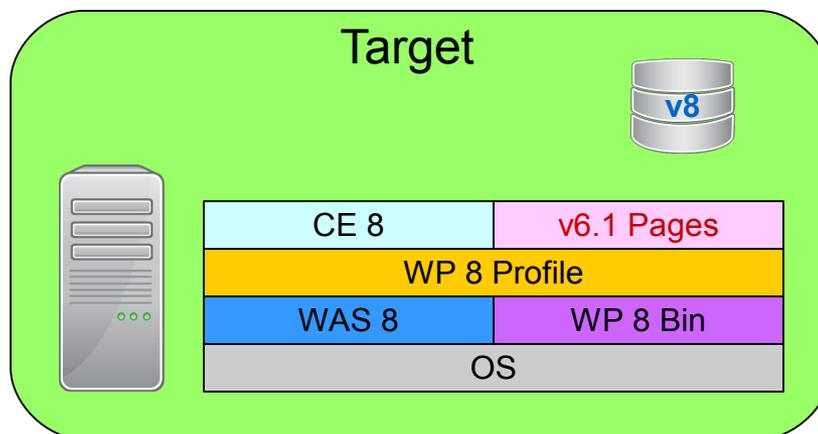


## Best Practices

- Restart migration from where it left off with  
`-Dwp.migration.framework.resume=<resume point>`

Example: `-Dwp.migration.framework.resume=deploy-apps`

- For troubleshooting, use `-DskipCleanup="true"` to preserve work folder
- If using both parameters, make sure to clean the contents of `wp_profile/ConfigEngine/config/work`
- Content-Only Migration is not supported in Portal 8**





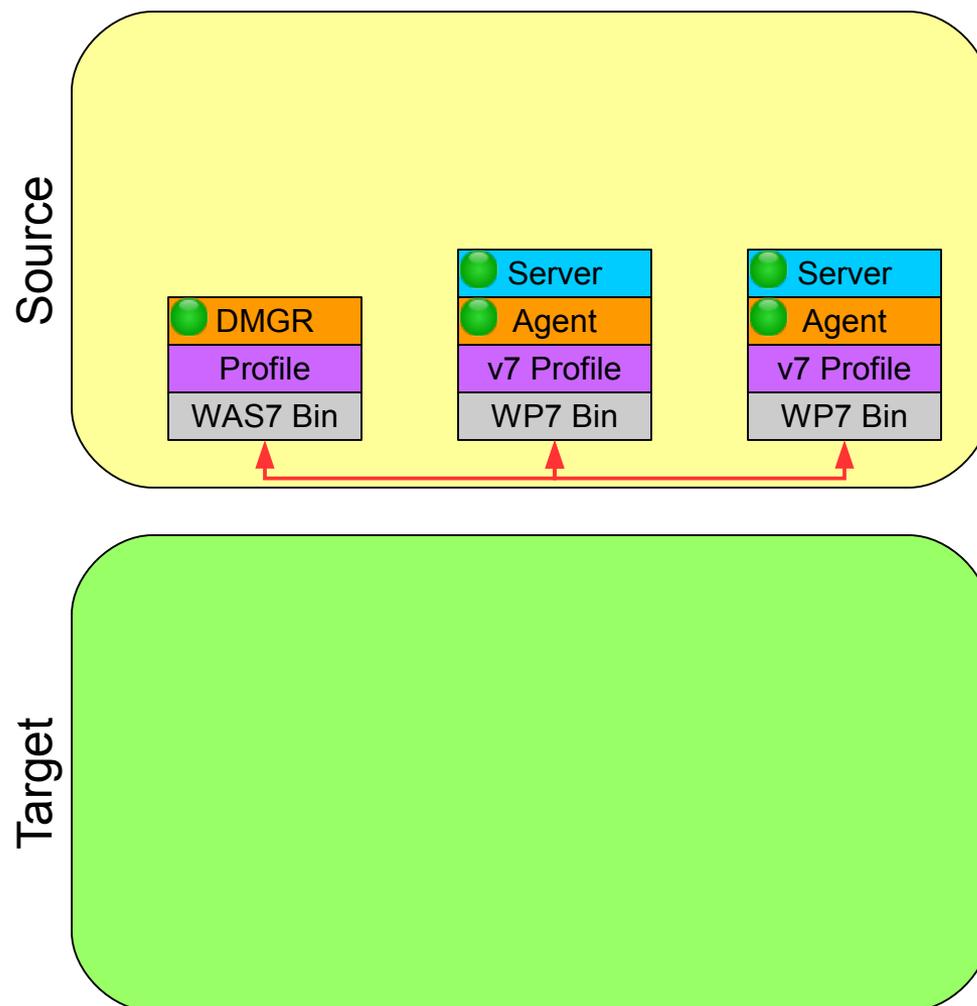
## Post Migration Tasks

- Always complete post migration tasks before enabling new features
- Update hard-coded paths of Custom Themes
  - Custom themes in v6.1 wps.ear are placed in Migrated\_Themes.ear retain original context root (default: `wps`)
  - New wps.ear is bound to `<org>_migrated` (default: `wps_migrated`)
  - Context-root for Migrated\_Themes.ear must be updated before wps.ear
- Update Default Portal 8 Themes
  - `ConfigEngine action-upgrade-theme-admin-oob`
  - `ConfigEngine action-upgrade-wcm-theme-admin-oob`
- Regression and Performance Testing
- Develop and deploy updated themes
- Re-Enable Automatic Synchronization
- Update data using `wcm-post-migration-data-update`
  - **Must be done before enabling managed pages and migrating virtual portals**
- Refer to the wiki for many other Post Migration Tasks



# Cluster Migration

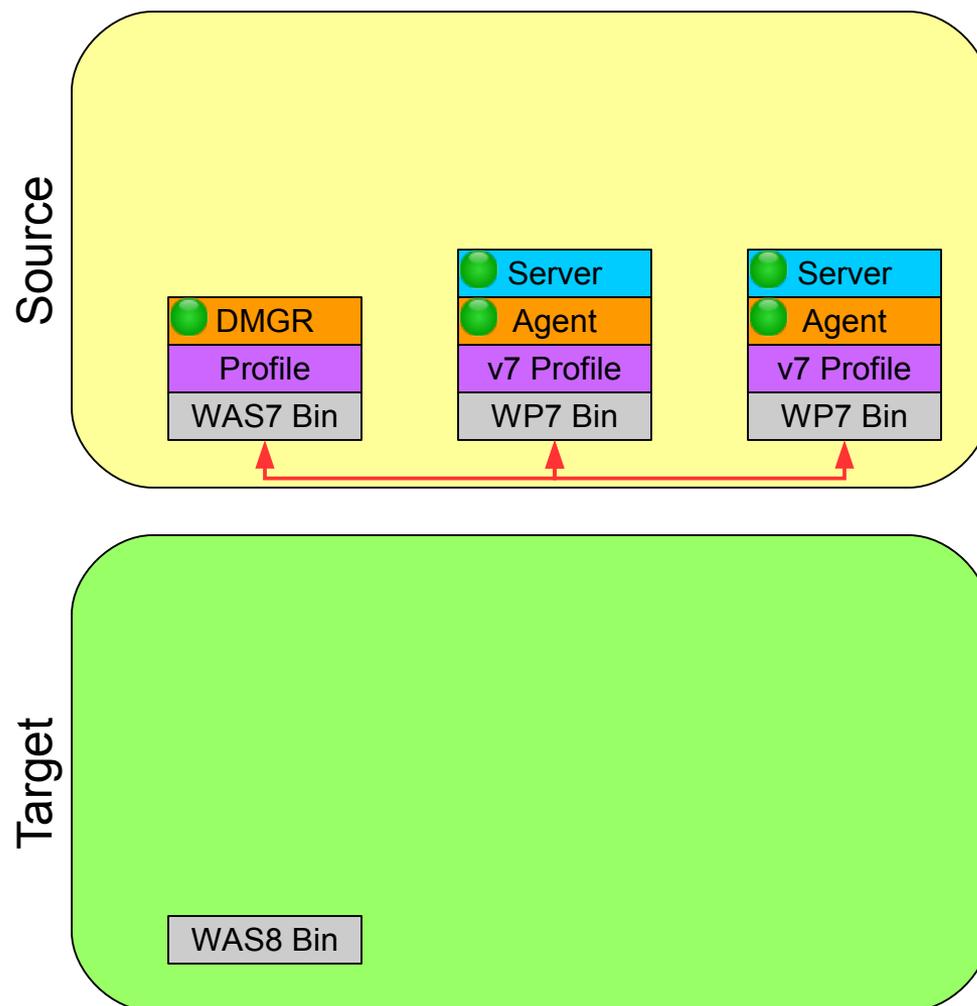
- Migrate DMGR profile
- Stop source DMGR and node agents
- Migrate node profiles
- Set up unique ports
- Complete node migrations





# Cluster Migration

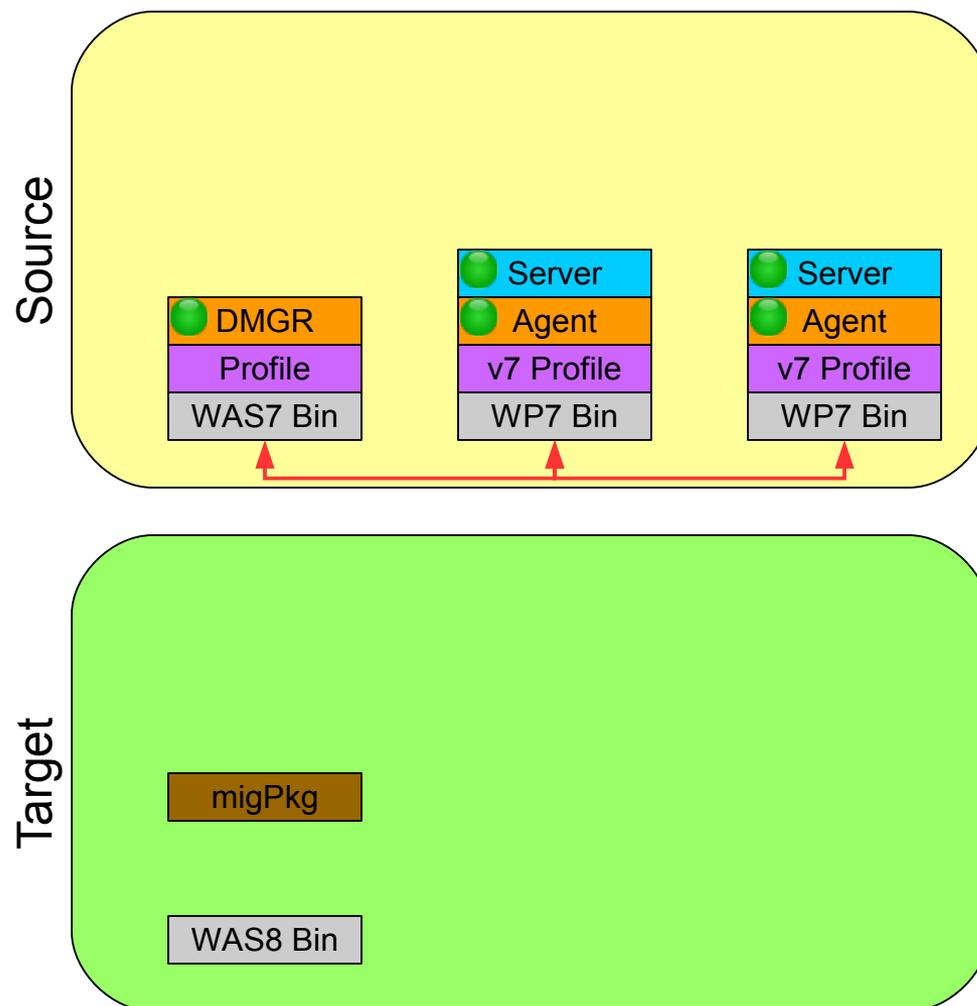
- Migrate DMGR profile
  - S: Disable AutoSync
  - **T: Install binaries**
  - T: Create fileForDmgr.zip
  - S: Copy fileForDmgr.zip
  - S: WASPreUpgrade
  - T: Copy backup profile
  - T: WASPostUpgrade
- Stop source DMGR and node agents
- Migrate node profiles
- Set up unique ports
- Complete node migrations





# Cluster Migration

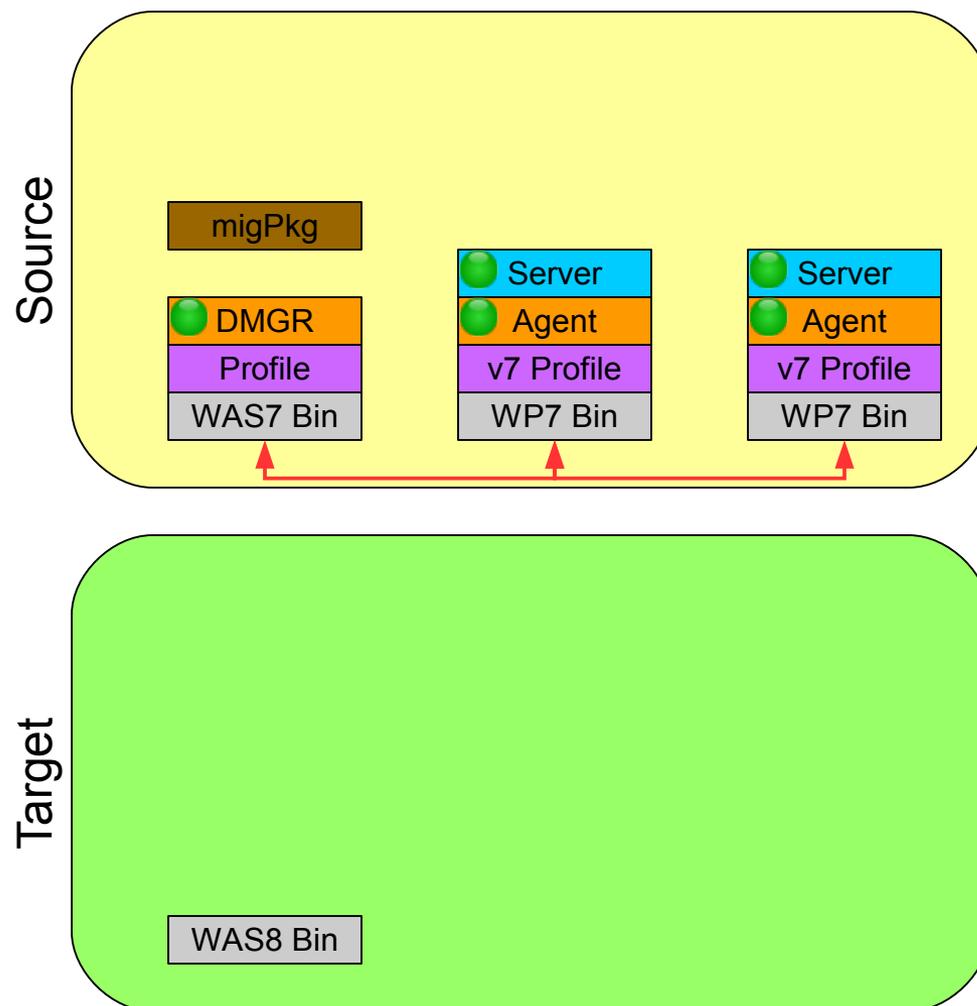
- Migrate DMGR profile
  - S: Disable AutoSync
  - T: Install binaries
  - **T: Create fileForDmgr.zip**
  - S: Copy fileForDmgr.zip
  - S: WASPreUpgrade
  - T: Copy backup profile
  - T: WASPostUpgrade
- Stop source DMGR and node agents
- Migrate node profiles
- Set up unique ports
- Complete node migrations





# Cluster Migration

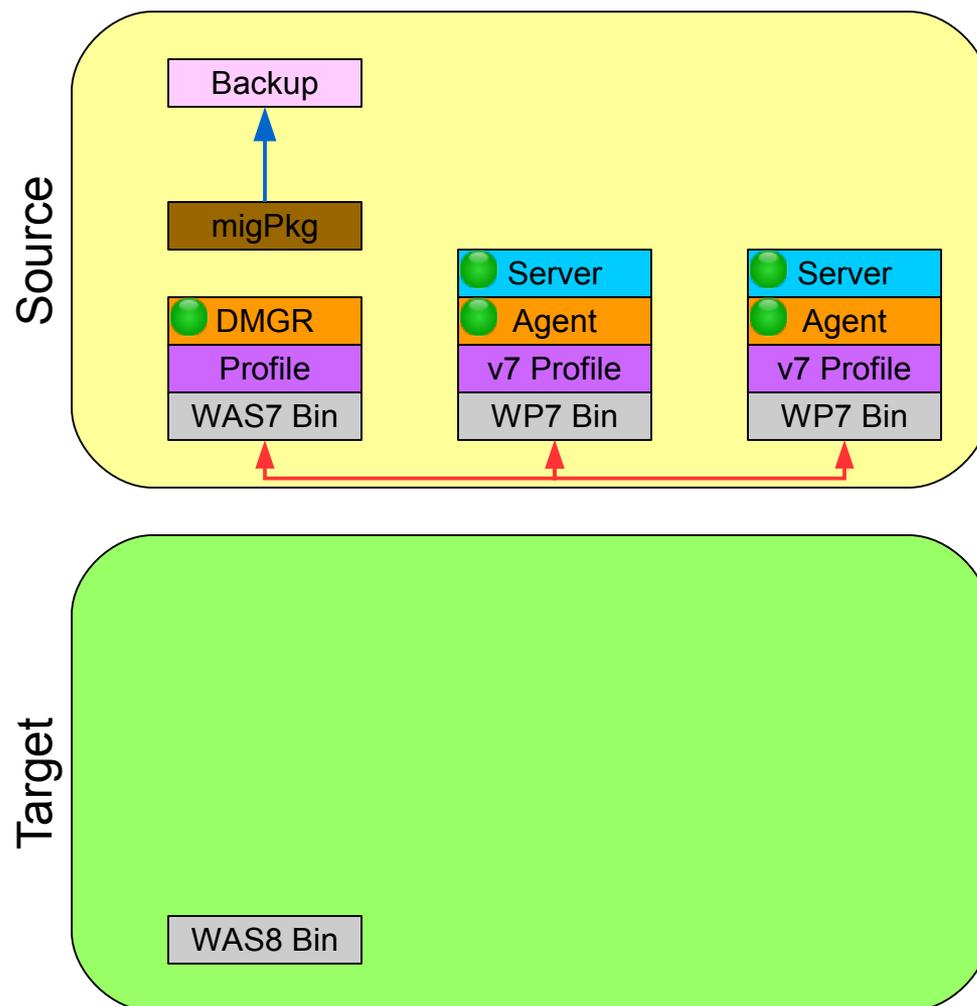
- Migrate DMGR profile
  - S: Disable AutoSync
  - T: Install binaries
  - T: Create fileForDmgr.zip
  - **S: Copy fileForDmgr.zip**
  - S: WASPreUpgrade
  - T: Copy backup profile
  - T: WASPostUpgrade
- Stop source DMGR and node agents
- Migrate node profiles
- Set up unique ports
- Complete node migrations





# Cluster Migration

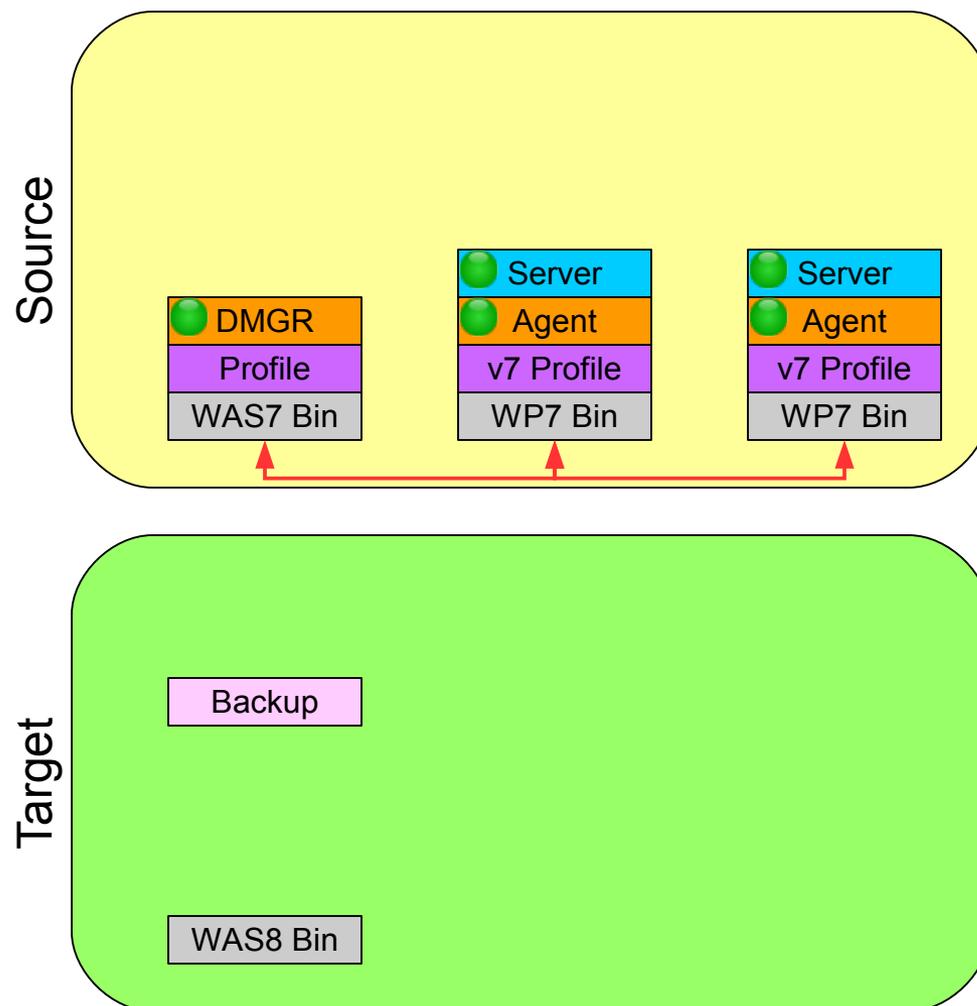
- Migrate DMGR profile
  - S: Disable AutoSync
  - T: Install binaries
  - T: Create fileForDmgr.zip
  - S: Copy fileForDmgr.zip
  - **S: WASPreUpgrade**
  - T: Copy backup profile
  - T: WASPostUpgrade
- Stop source DMGR and node agents
- Migrate node profiles
- Set up unique ports
- Complete node migrations





# Cluster Migration

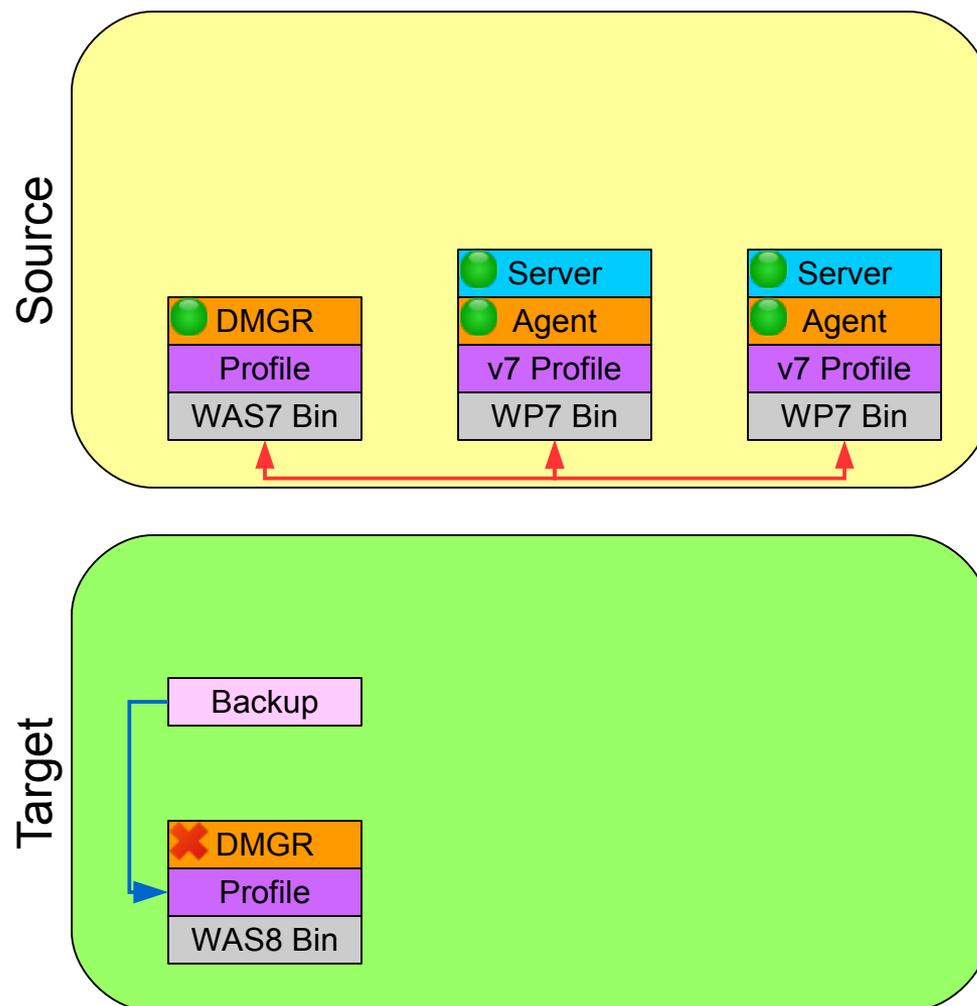
- Migrate DMGR profile
  - S: Disable AutoSync
  - T: Install binaries
  - T: Create fileForDmgr.zip
  - S: Copy fileForDmgr.zip
  - S: WASPreUpgrade
  - **T: Copy backup profile**
  - T: WASPostUpgrade
- Stop source DMGR and node agents
- Migrate node profiles
- Set up unique ports
- Complete node migrations





# Cluster Migration

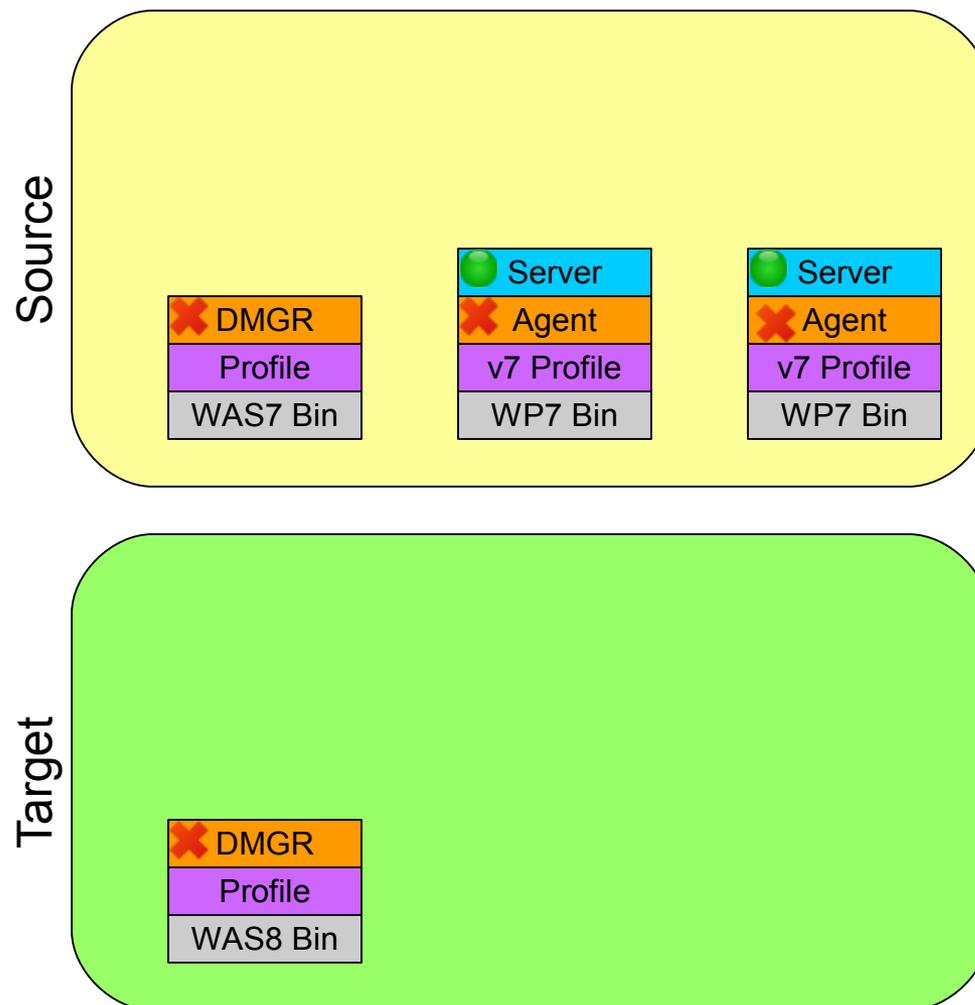
- Migrate DMGR profile
  - S: Disable AutoSync
  - T: Install binaries
  - T: Create fileForDmgr.zip
  - S: Copy fileForDmgr.zip
  - S: WASPreUpgrade
  - T: Copy backup profile
  - **T: WASPostUpgrade**
- Stop source DMGR and node agents
- Migrate node profiles
- Set up unique ports
- Complete node migrations





# Cluster Migration

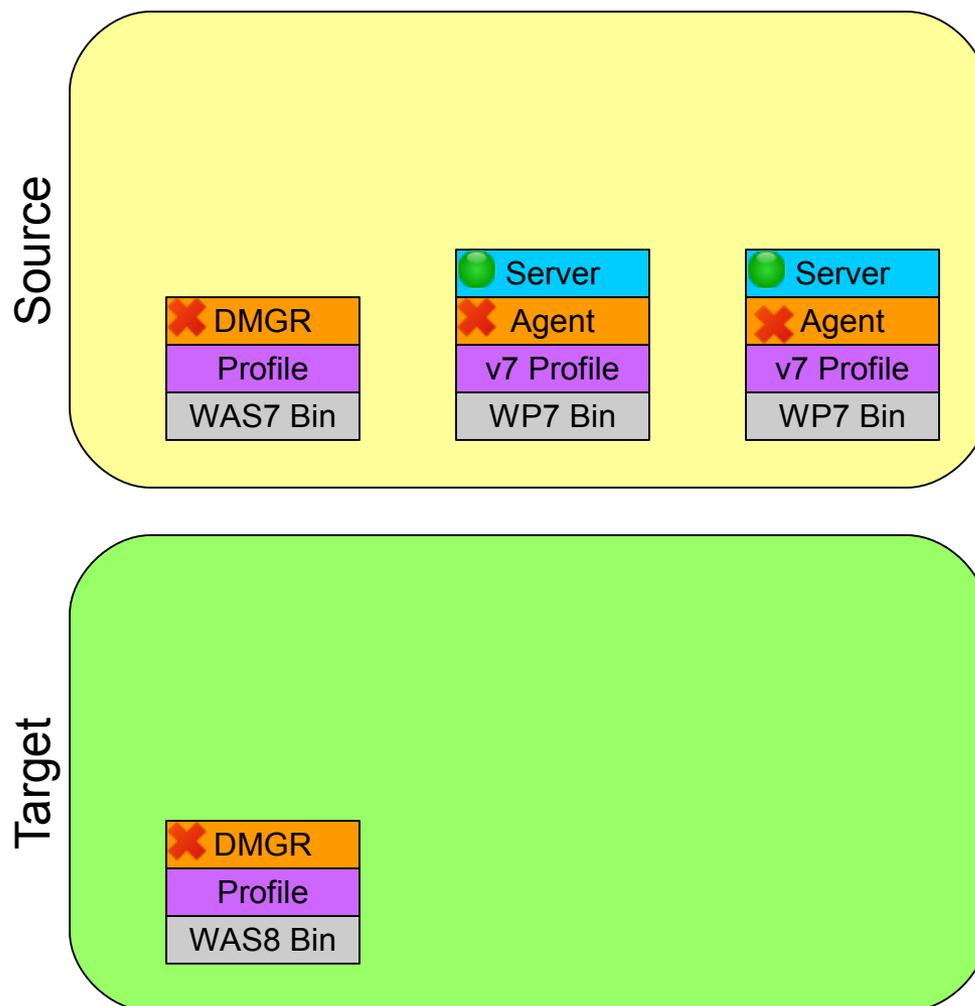
- Migrate DMGR profile
- Stop source DMGR and node agents
- Migrate node profiles
- Set up unique ports
- Complete node migrations





# Cluster Migration

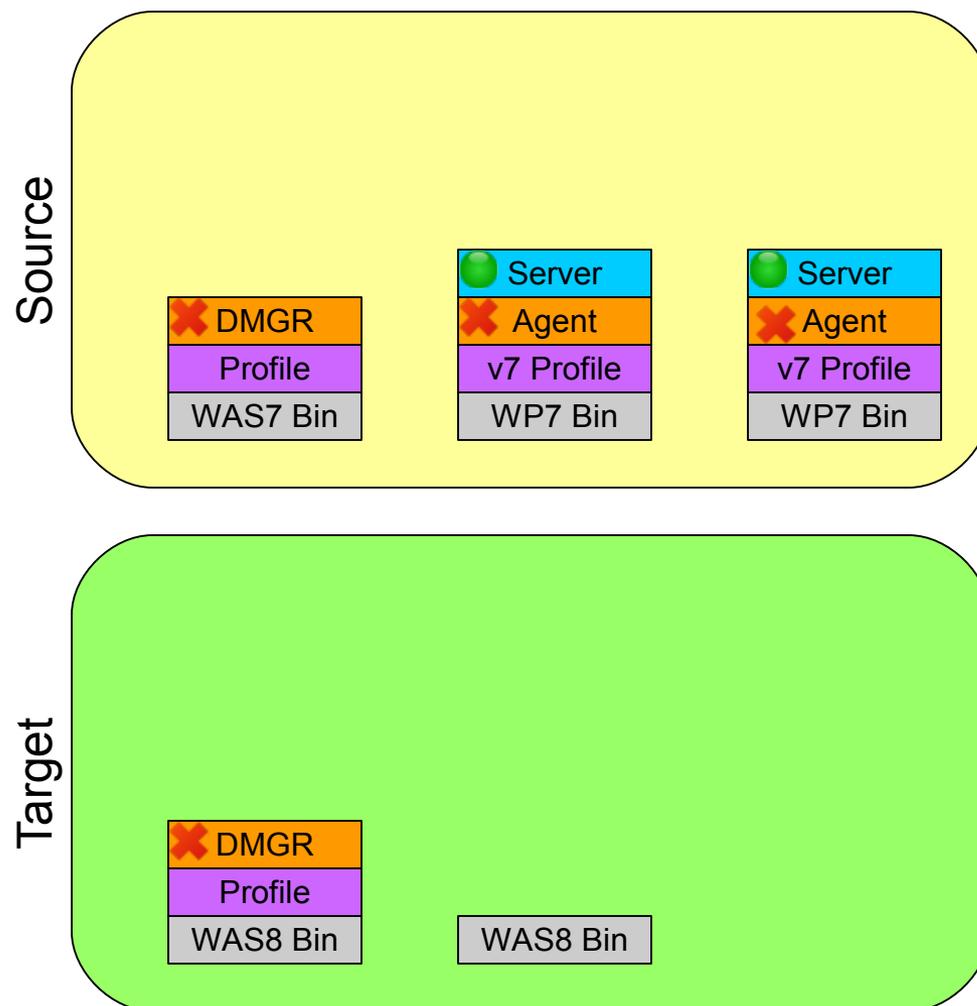
- Migrate DMGR profile
- Stop source DMGR and node agents
- Migrate node profiles
  - Install binaries
  - Create MigRemPkg
  - WASPreUpgrade
  - WASPostUpgrade
- Set up unique ports
- Complete node migrations





# Cluster Migration

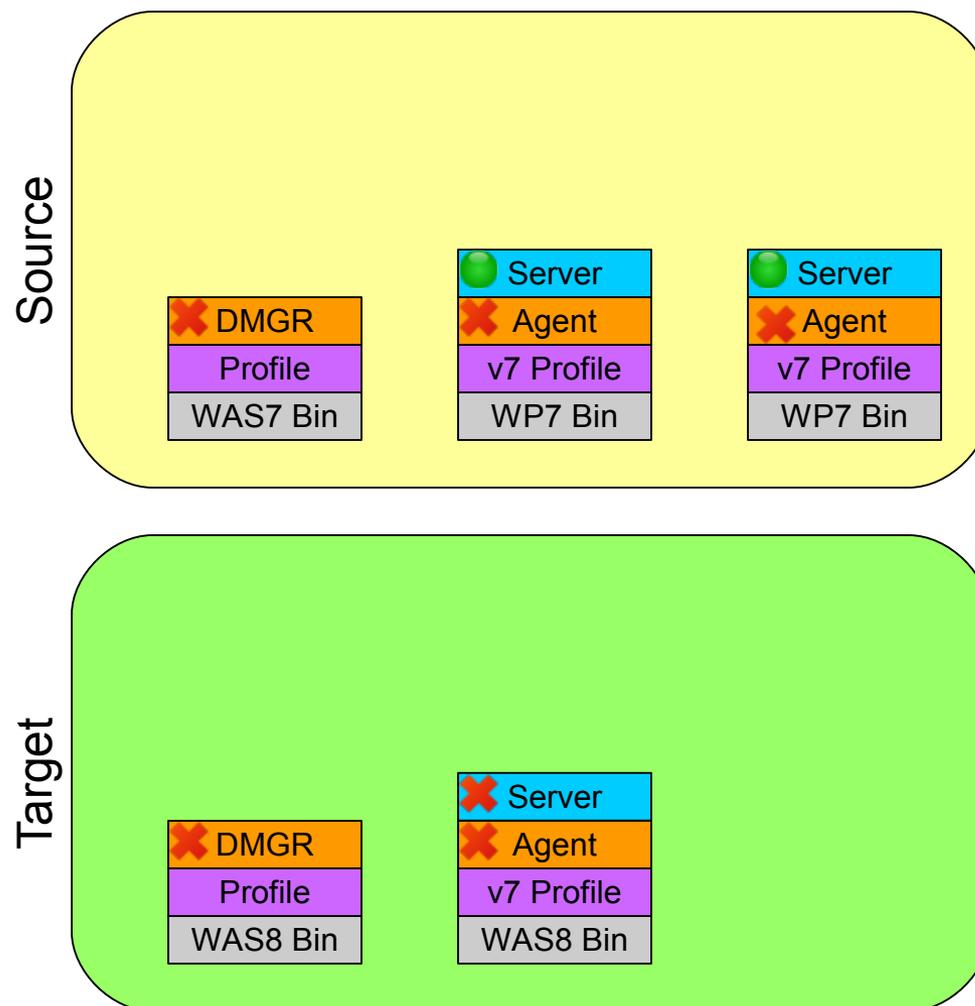
- Migrate DMGR profile
- Stop source DMGR and node agents
- Migrate node profiles
  - Install binaries
  - Create MigRemPkg
  - WASPreUpgrade
  - WASPostUpgrade
- Set up unique ports
- Complete node migrations





# Cluster Migration

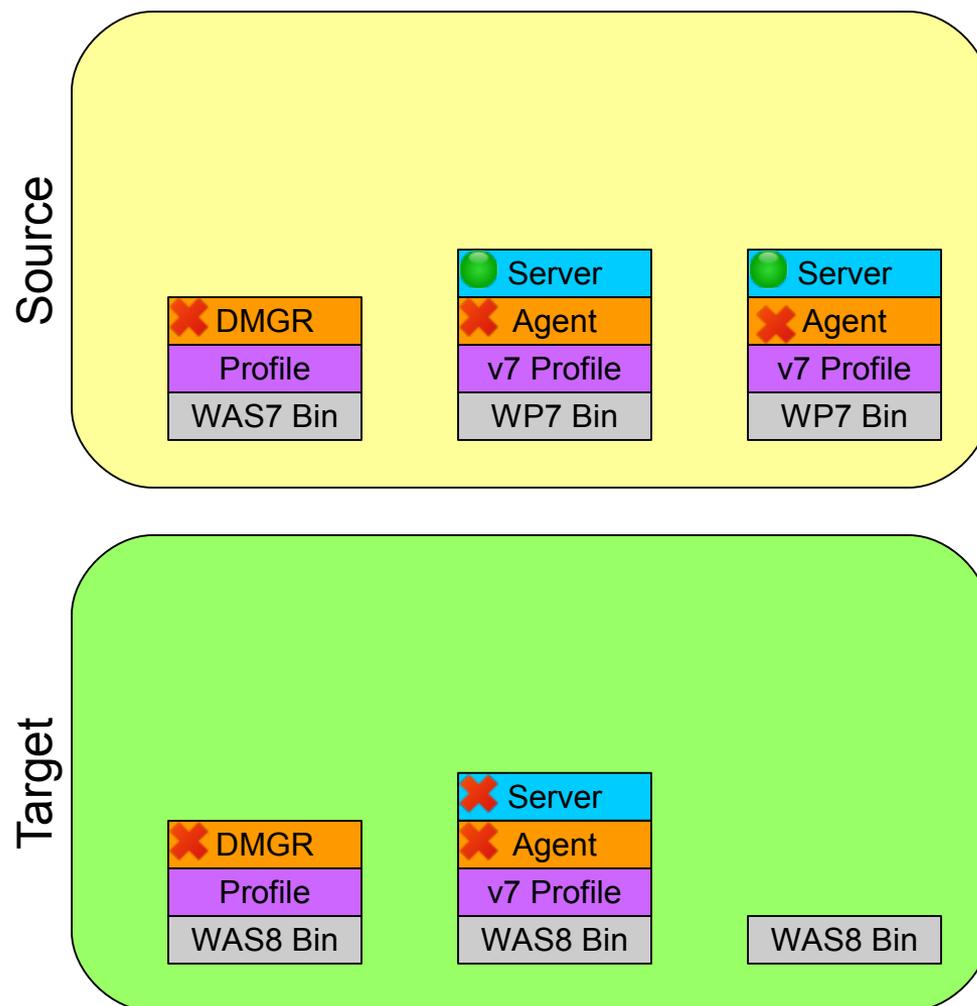
- Migrate DMGR profile
- Stop source DMGR and node agents
- Migrate node profiles
  - Install binaries
  - Create MigRemPkg
  - WASPreUpgrade
  - WASPostUpgrade
- Set up unique ports
- Complete node migrations





# Cluster Migration

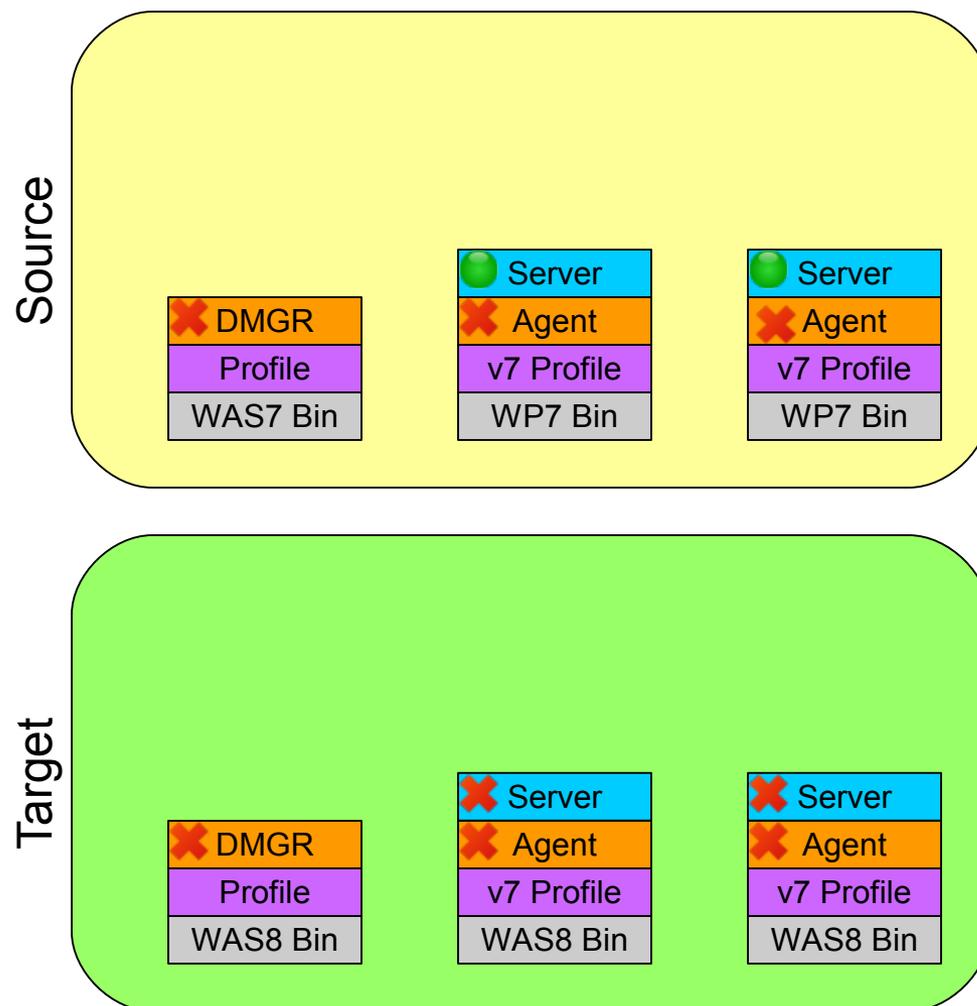
- Migrate DMGR profile
- Stop source DMGR and node agents
- Migrate node profiles
  - Install binaries
  - Create MigRemPkg
  - WASPreUpgrade
  - WASPostUpgrade
- Set up unique ports
- Complete node migrations





# Cluster Migration

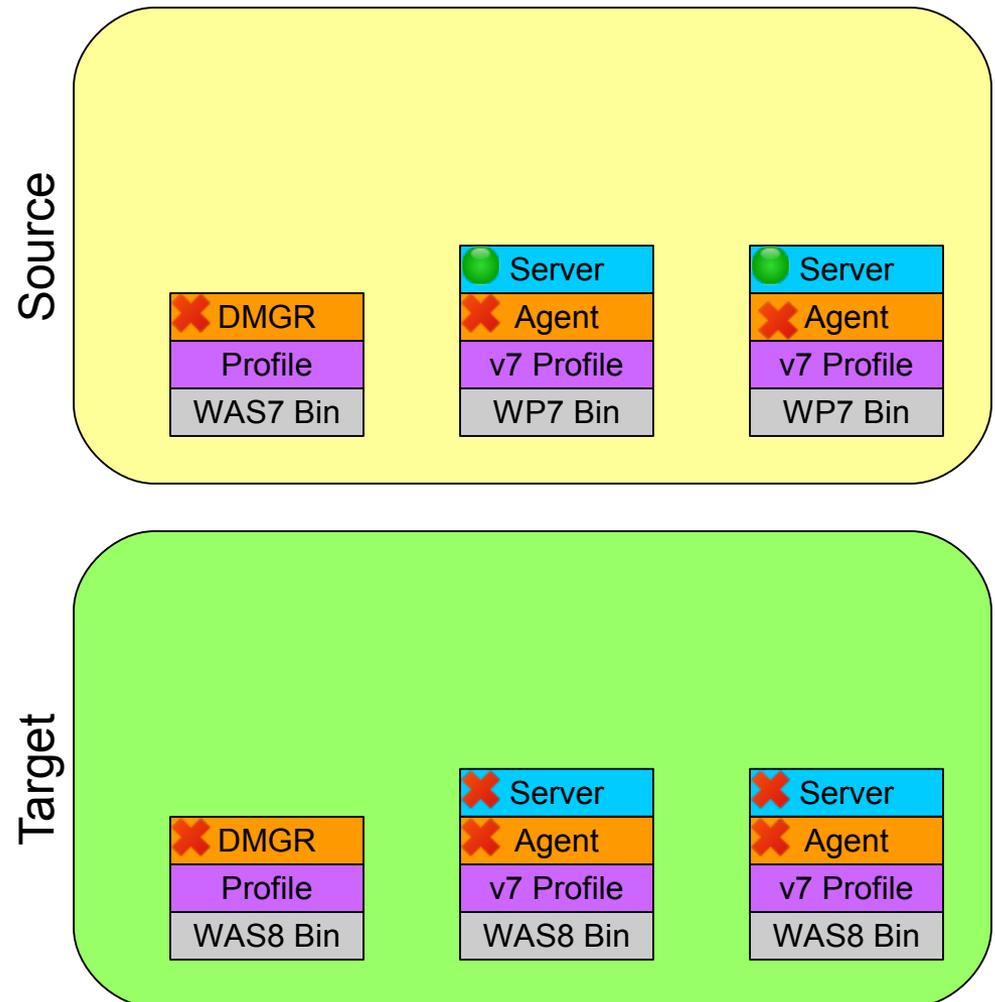
- Migrate DMGR profile
- Stop source DMGR and node agents
- Migrate node profiles
  - Install binaries
  - Create MigRemPkg
  - WASPreUpgrade
  - WASPostUpgrade
- Set up unique ports
- Complete node migrations





# Cluster Migration

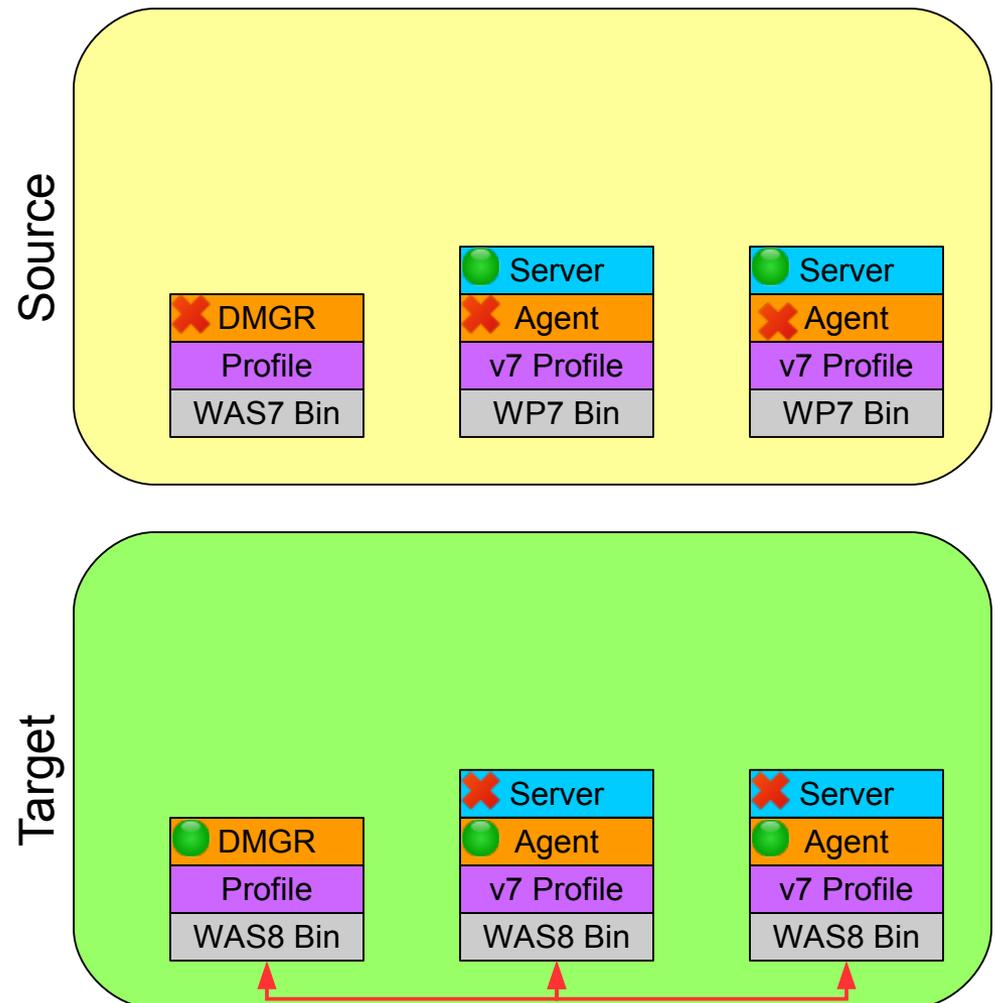
- Migrate DMGR profile
- Stop source DMGR and node agents
- Migrate node profiles
- Set up unique ports
  - Start DMGR/Node Agents
  - Update ports in ISC
  - Fully re-synchronize
  - Restart DMGR/Node Agents
- Complete node migrations





# Cluster Migration

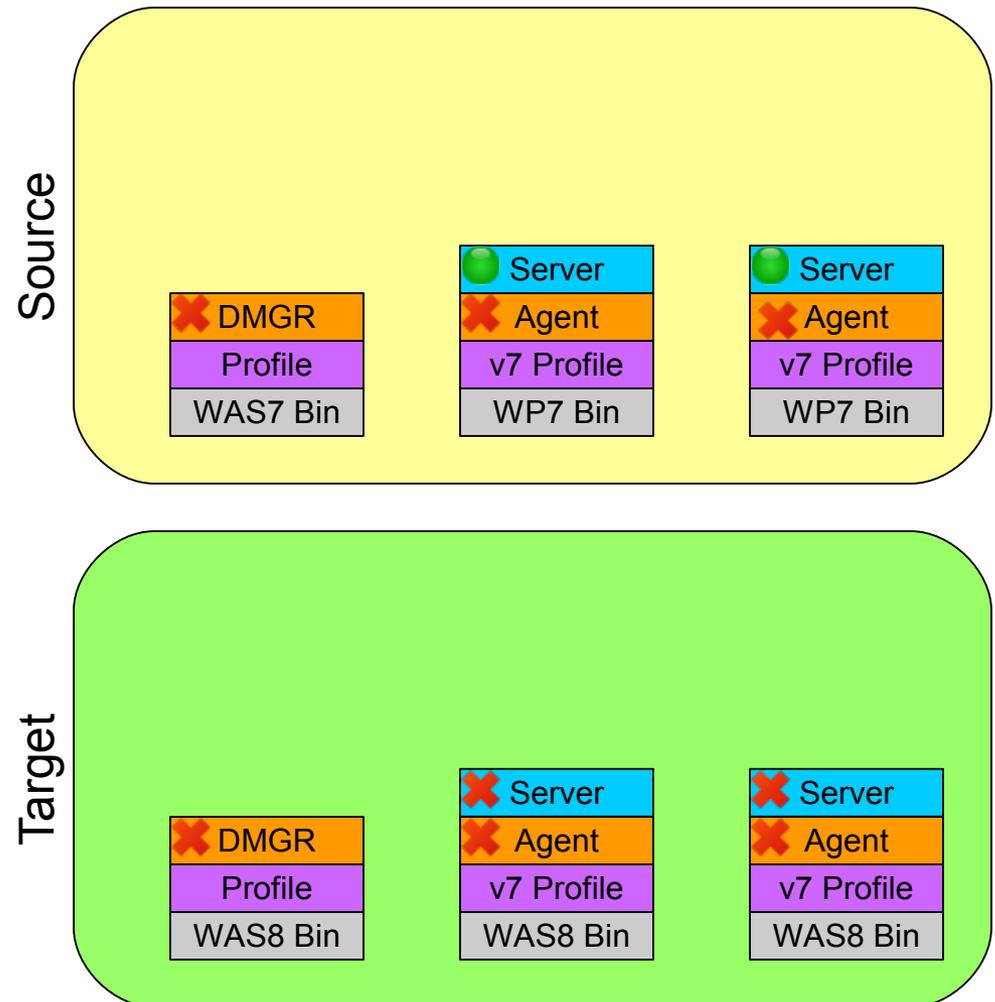
- Migrate DMGR profile
- Stop source DMGR and node agents
- Migrate node profiles
- Set up unique ports
  - Start DMGR/Node Agents
  - Update ports in ISC
  - Fully re-synchronize
  - Restart DMGR/Node Agents
- Complete node migrations





# Cluster Migration

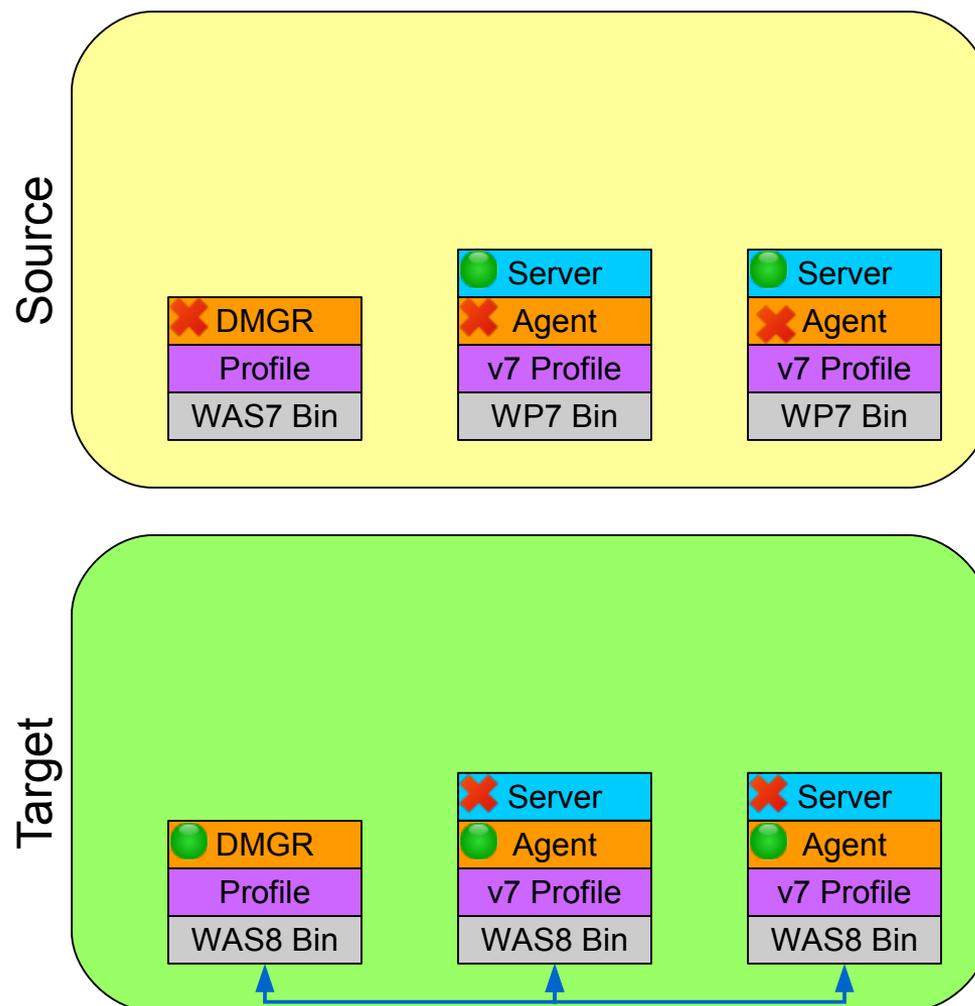
- Migrate DMGR profile
- Stop source DMGR and node agents
- Migrate node profiles
- Set up unique ports
  - Start DMGR/Node Agents
  - Update ports in ISC
  - Fully re-synchronize
  - Restart DMGR/Node Agents
- Complete node migrations





# Cluster Migration

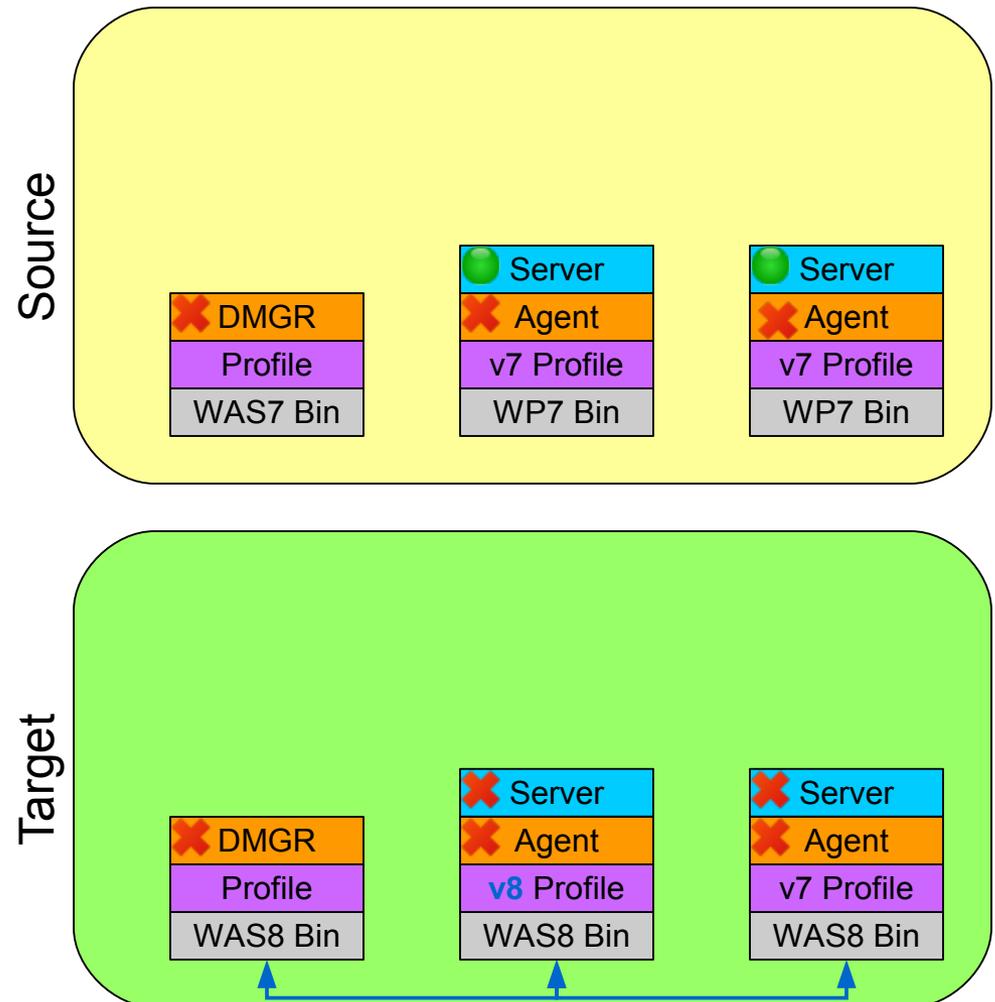
- Migrate DMGR profile
- Stop source DMGR and node agents
- Migrate node profiles
- Set up unique ports
  - Start DMGR/Node Agents
  - Update ports in ISC
  - Fully re-synchronize
  - Restart DMGR/Node Agents
- Complete node migrations





# Cluster Migration

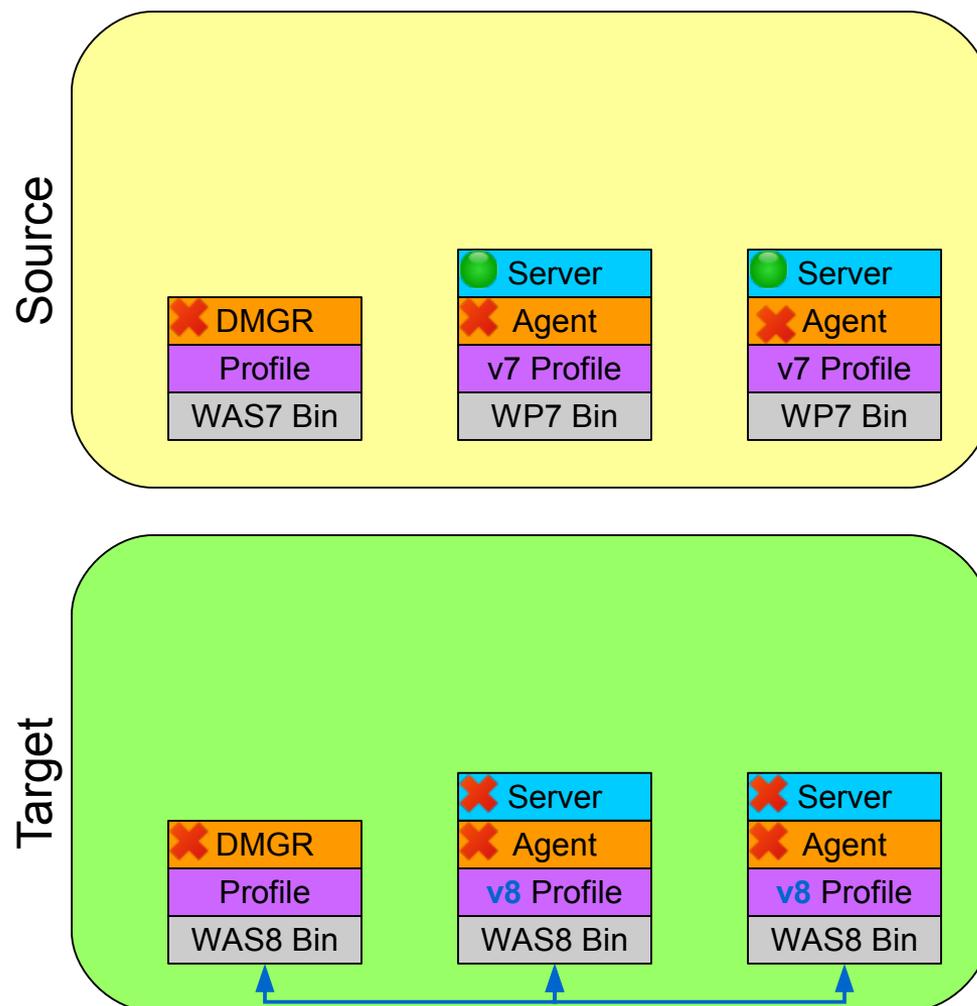
- Migrate DMGR profile
- Stop source DMGR and node agents
- Migrate node profiles
- Set up unique ports
- Complete node migrations
  - Upgrade ConfigEngine
  - Connect to DB Copies
  - Run upgrade-profile
  - Restart Source Env
  - Post migration tasks





# Cluster Migration

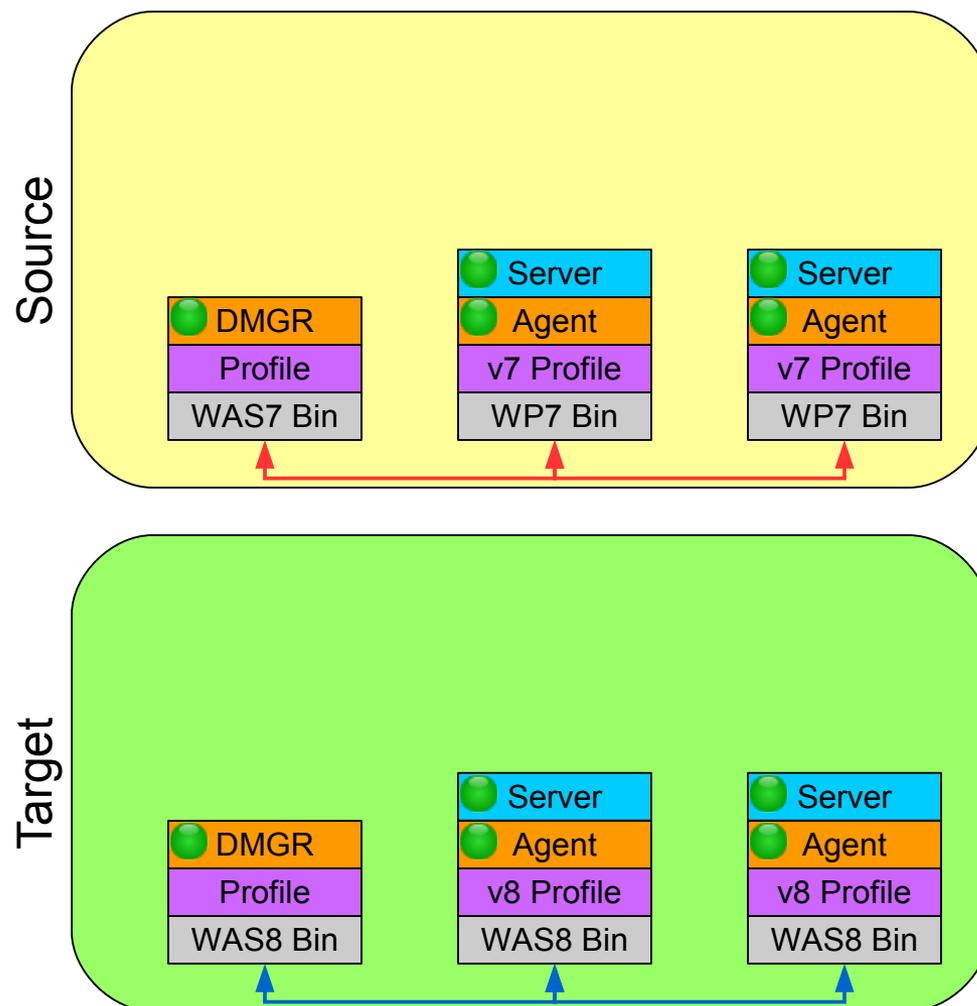
- Migrate DMGR profile
- Stop source DMGR and node agents
- Migrate node profiles
- Set up unique ports
- Complete node migrations
  - Upgrade ConfigEngine
  - Connect to DB Copies
  - Run upgrade-profile
  - Restart Source Env
  - Post migration tasks





# Cluster Migration

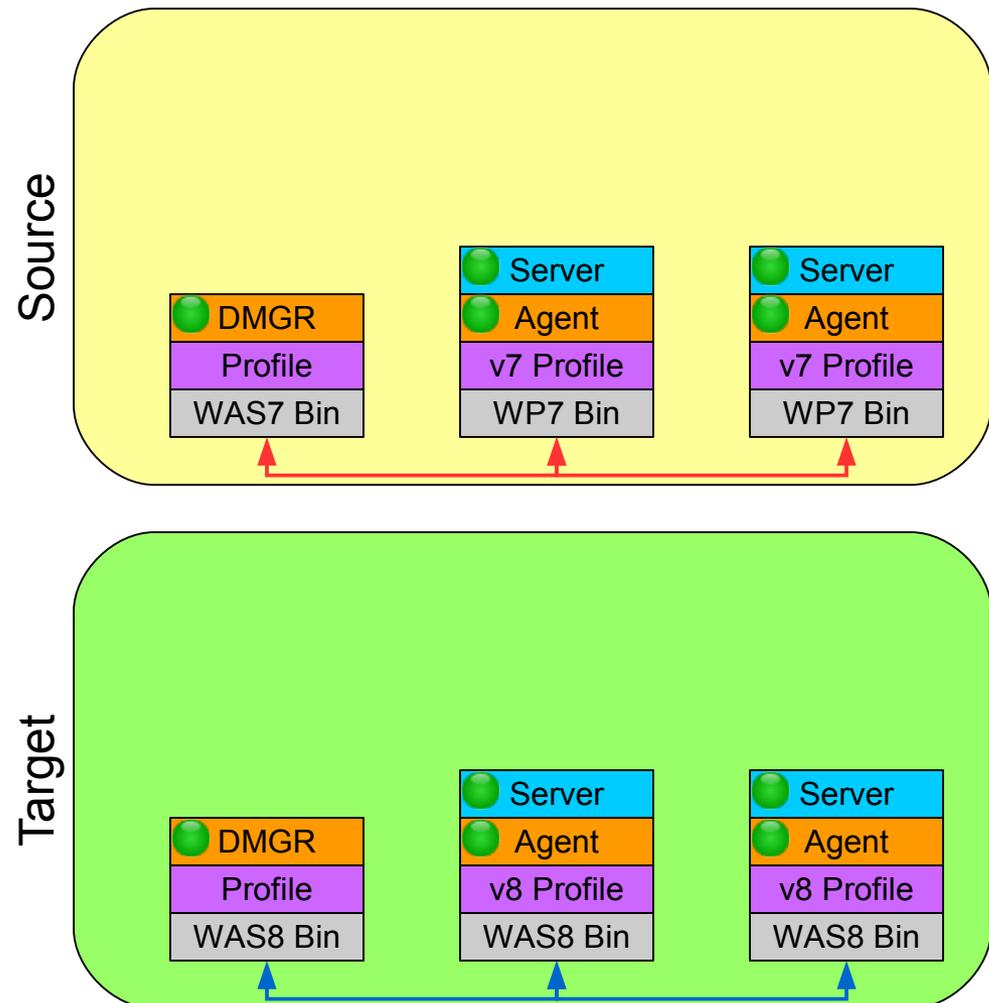
- Migrate DMGR profile
- Stop source DMGR and node agents
- Migrate node profiles
- Set up unique ports
- Complete node migrations
  - Upgrade ConfigEngine
  - Connect to DB Copies
  - Run upgrade-profile
  - Restart Source Env
  - Post migration tasks





## Best Practices

- Make sure AutoSync is disabled
- Make sure the Source DMGR/Node Agents are stopped
- Don't forget to set up unique ports



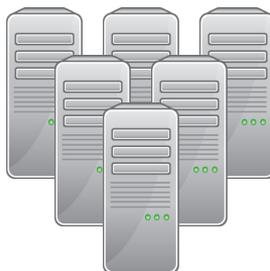


# Migration Strategies

- Scenario 1: Tiered Environment



- Scenario 2: Large Cluster



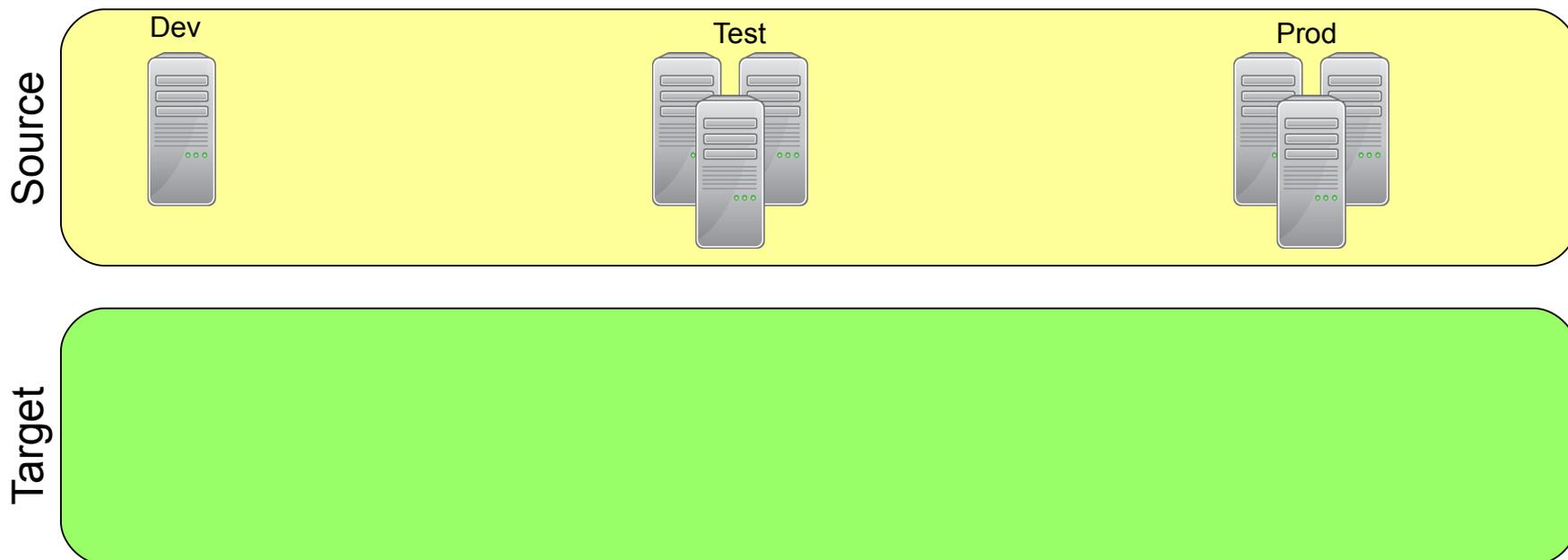
- Scenario 3: Locked-down Environment





# Tiered Environment

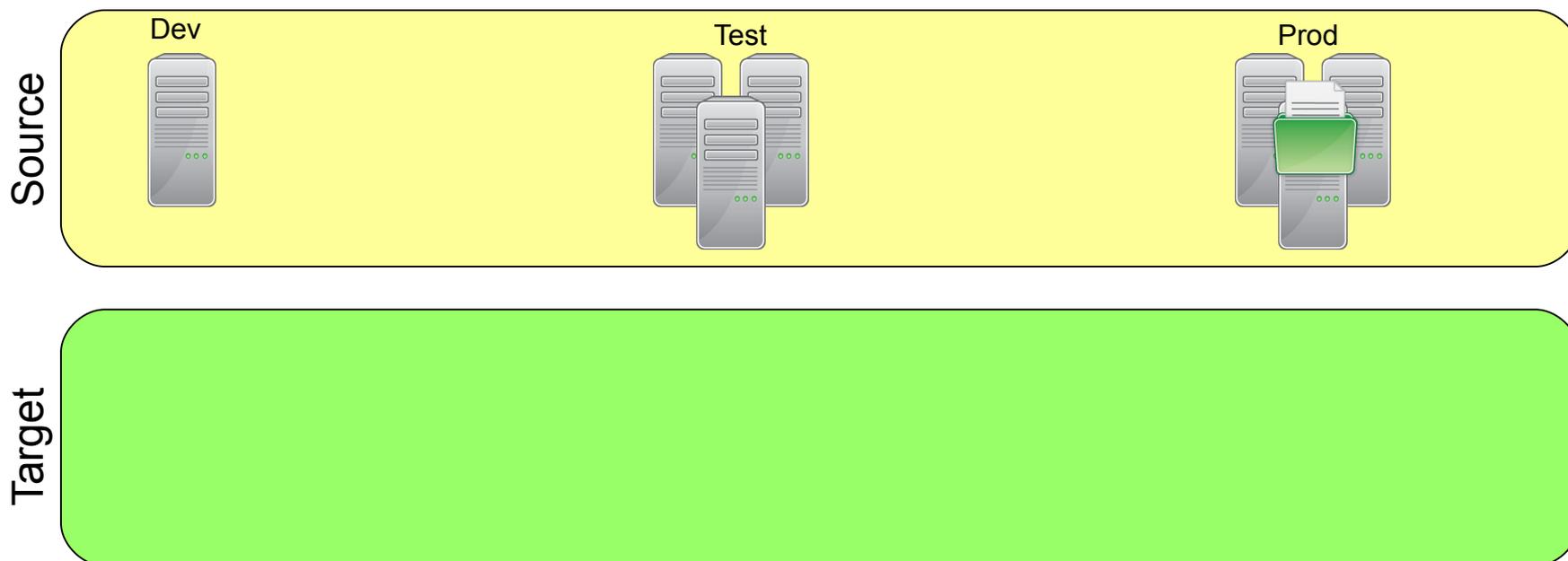
- Make sure lowest tier standalone server has most current content
- Migrate lowest tier
- Build out the rest of the environments using s2p and RB





# Tiered Environment

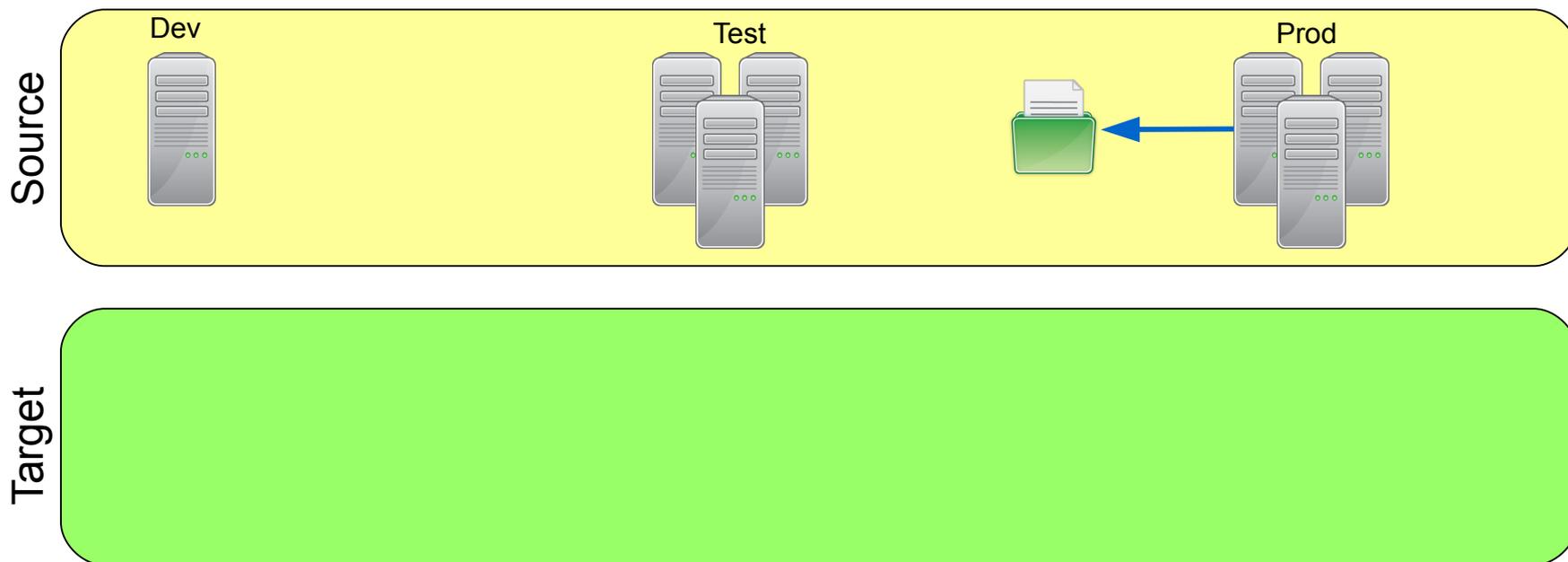
- Make sure lowest tier standalone server has most current content
- Migrate lowest tier
- Build out the rest of the environments using s2p and RB





# Tiered Environment

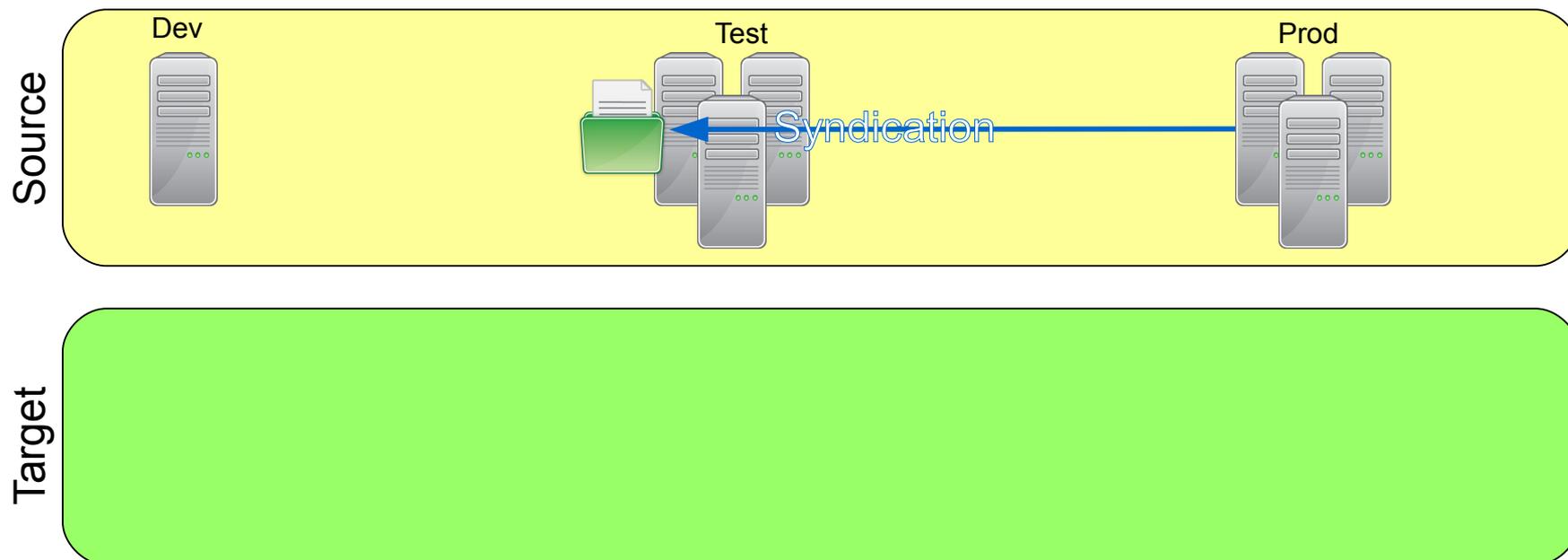
- Make sure lowest tier standalone server has most current content
- Migrate lowest tier
- Build out the rest of the environments using s2p and RB





# Tiered Environment

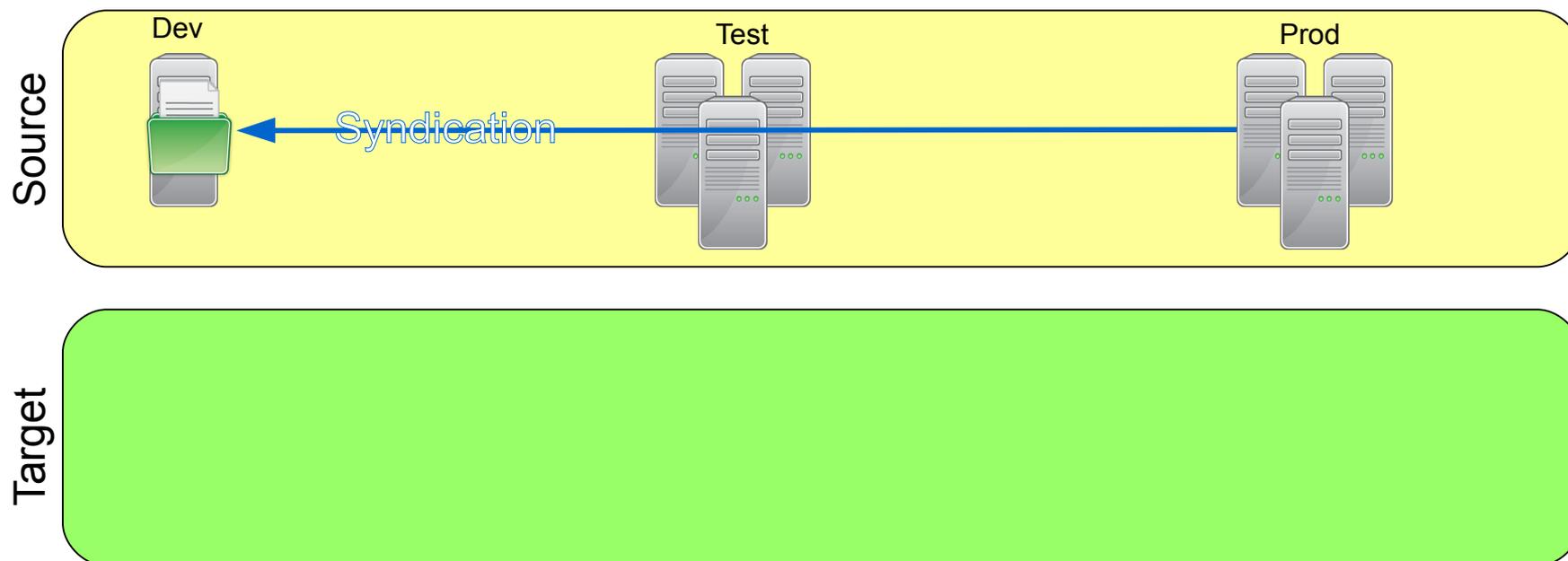
- Make sure lowest tier standalone server has most current content
- Migrate lowest tier
- Build out the rest of the environments using s2p and RB





# Tiered Environment

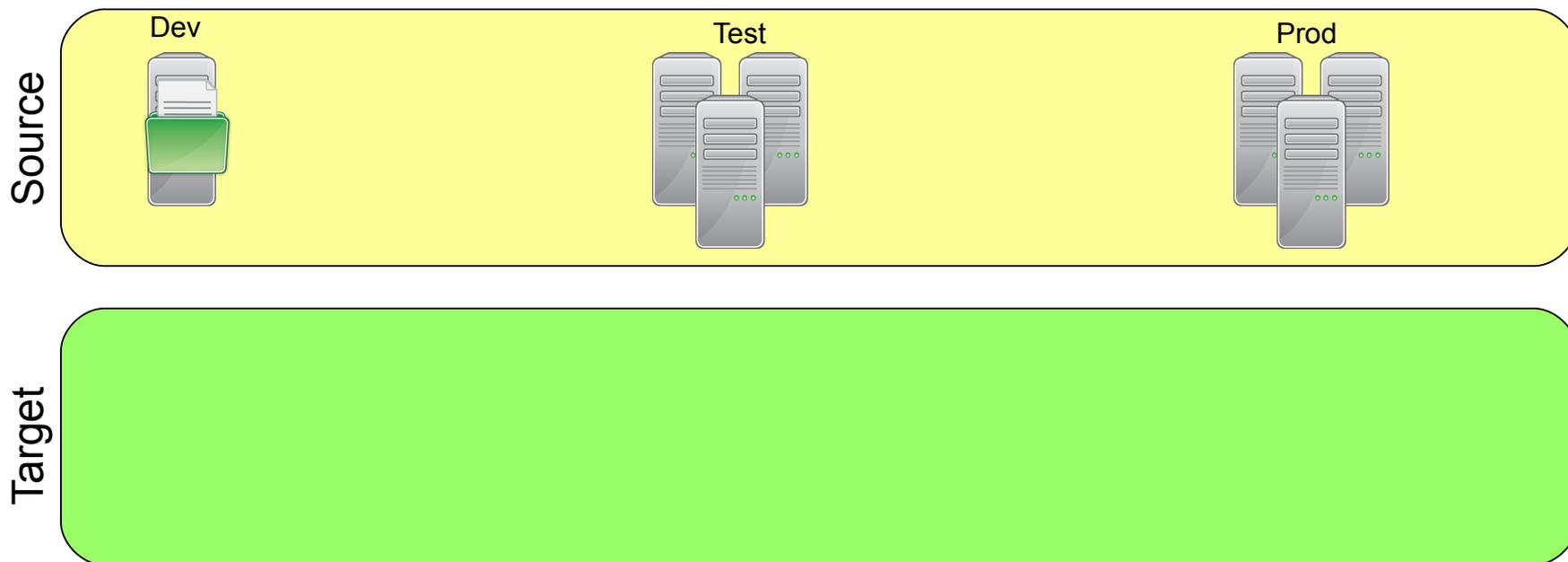
- Make sure lowest tier standalone server has most current content
- Migrate lowest tier
- Build out the rest of the environments using s2p and RB





# Tiered Environment

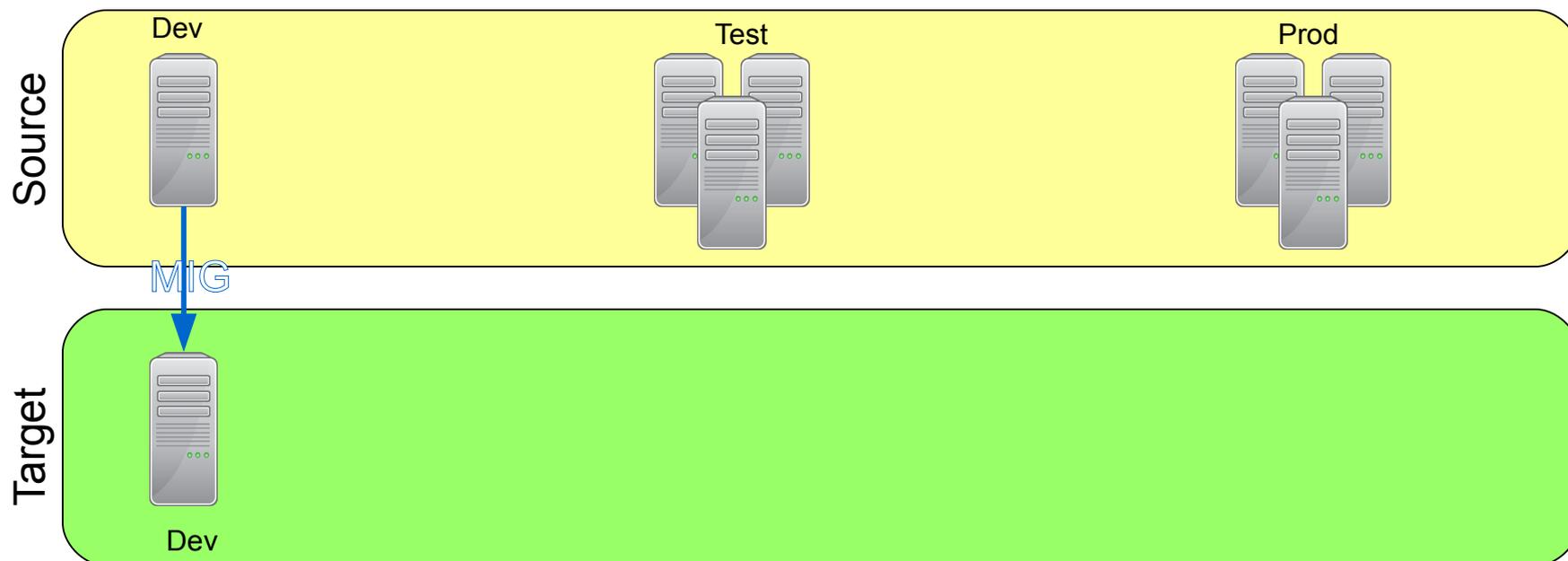
- Make sure lowest tier standalone server has most current content
- Migrate lowest tier
- Build out the rest of the environments using s2p and RB





# Tiered Environment

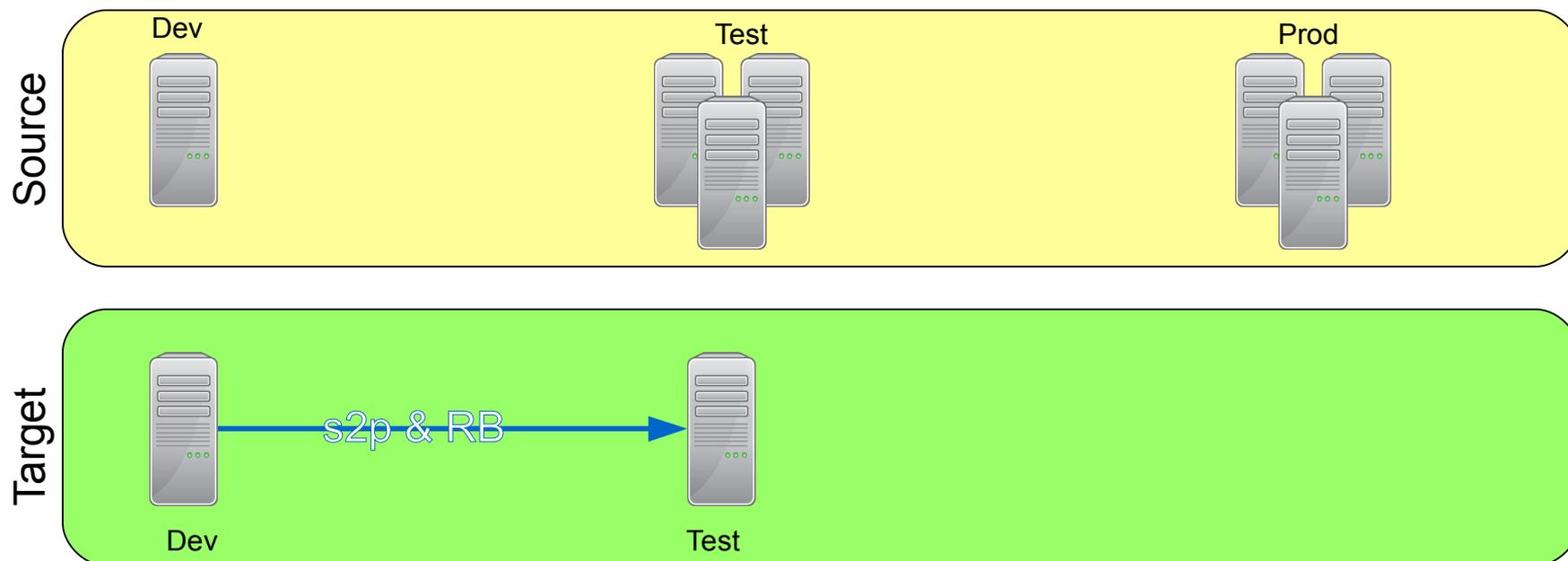
- Make sure lowest tier standalone server has most current content
- Migrate lowest tier
- Build out the rest of the environments using s2p and RB





# Tiered Environment

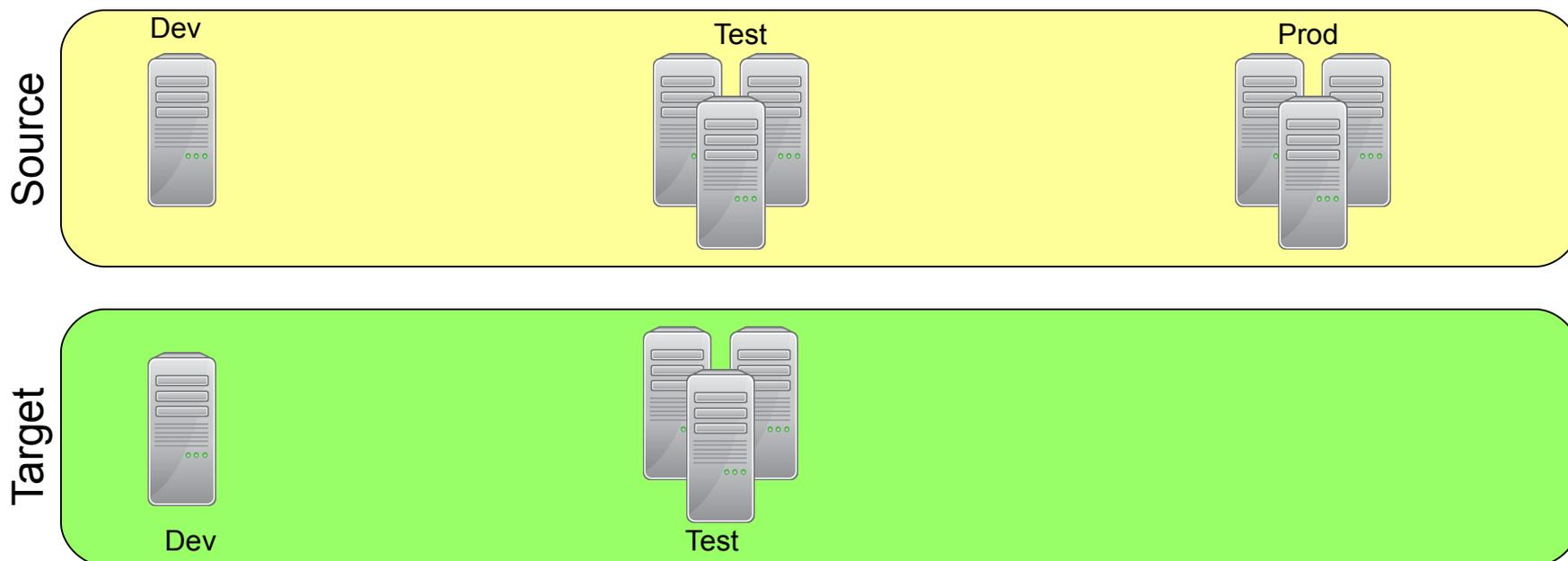
- Make sure lowest tier standalone server has most current content
- Migrate lowest tier
- Build out the rest of the environments using s2p and RB





# Mixed Tiered Environment

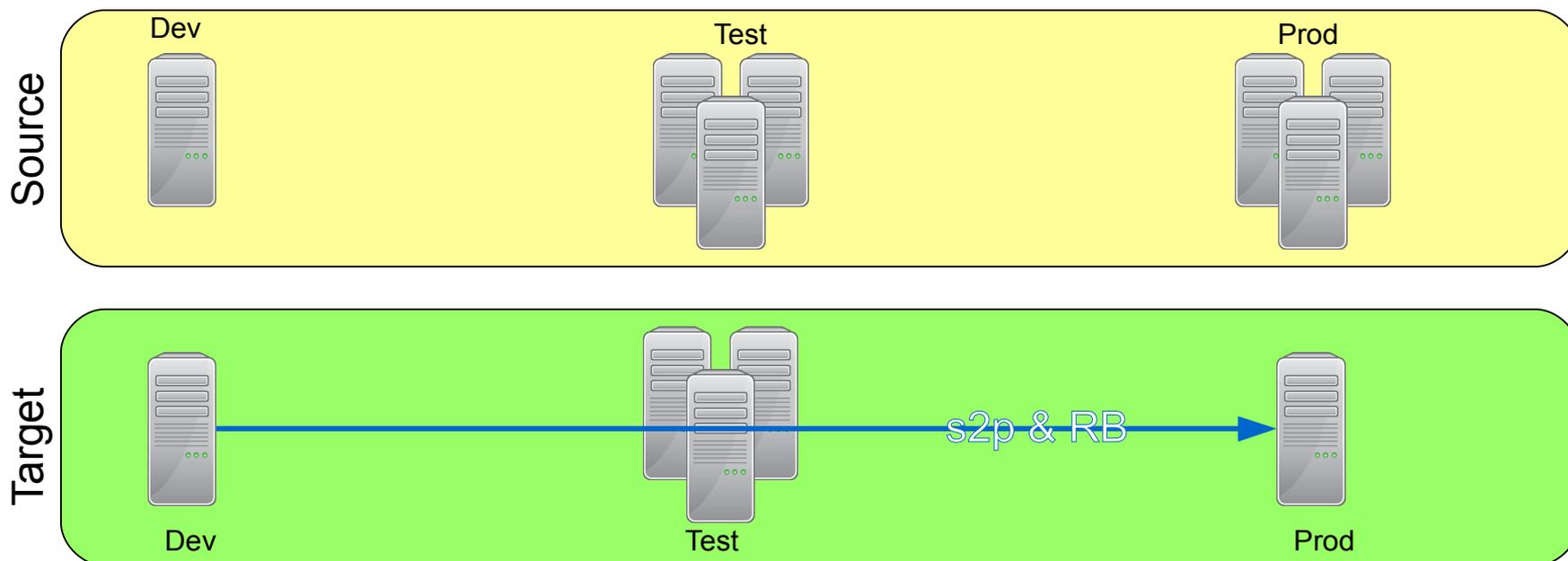
- Make sure lowest tier standalone server has most current content
- Migrate lowest tier
- Build out the rest of the environments using s2p and RB





# Mixed Tiered Environment

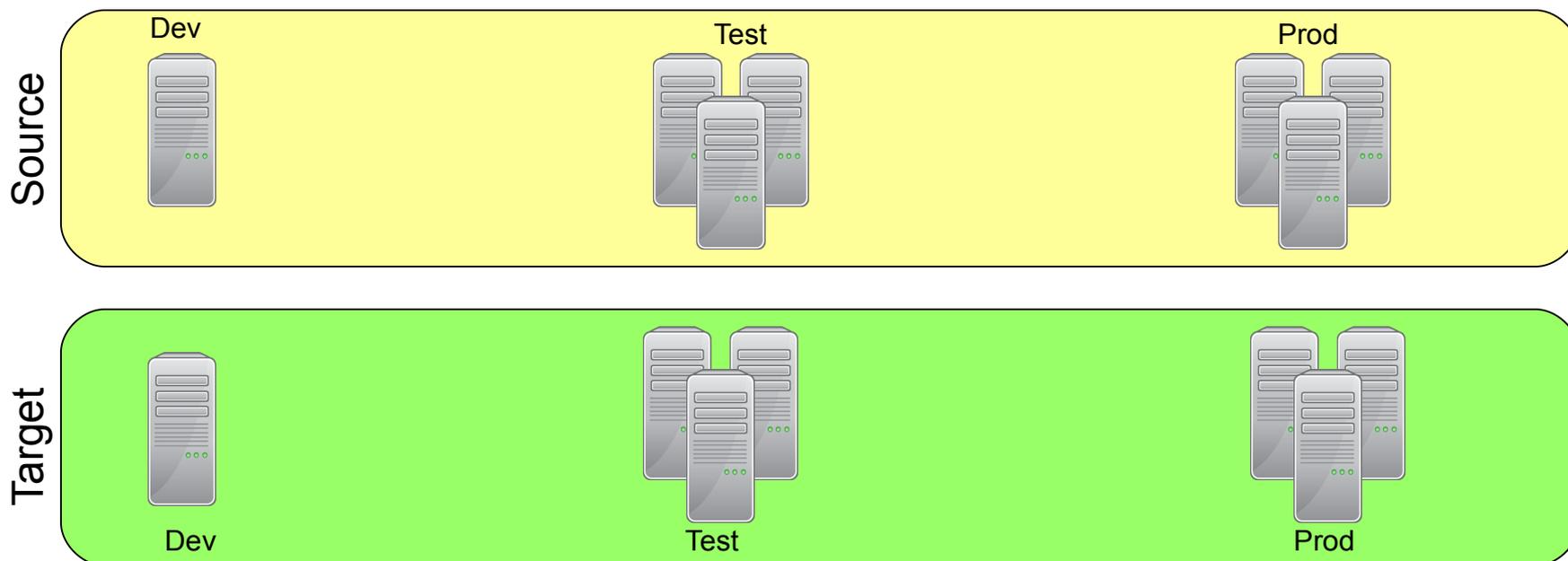
- Make sure lowest tier standalone server has most current content
- Migrate lowest tier
- Build out the rest of the environments using s2p and RB





# Tiered Environment

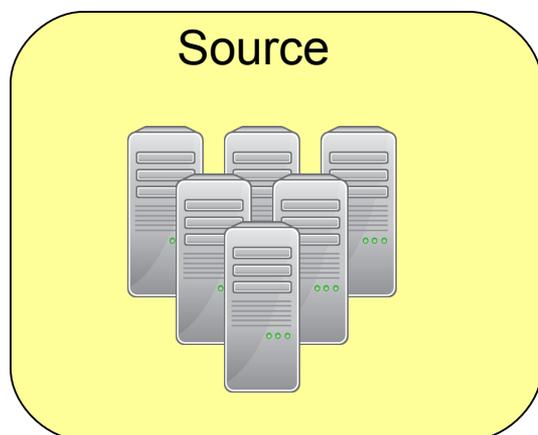
- Make sure lowest tier standalone server has most current content
- Migrate lowest tier
- Build out the rest of the environments using s2p and RB





## Large Cluster

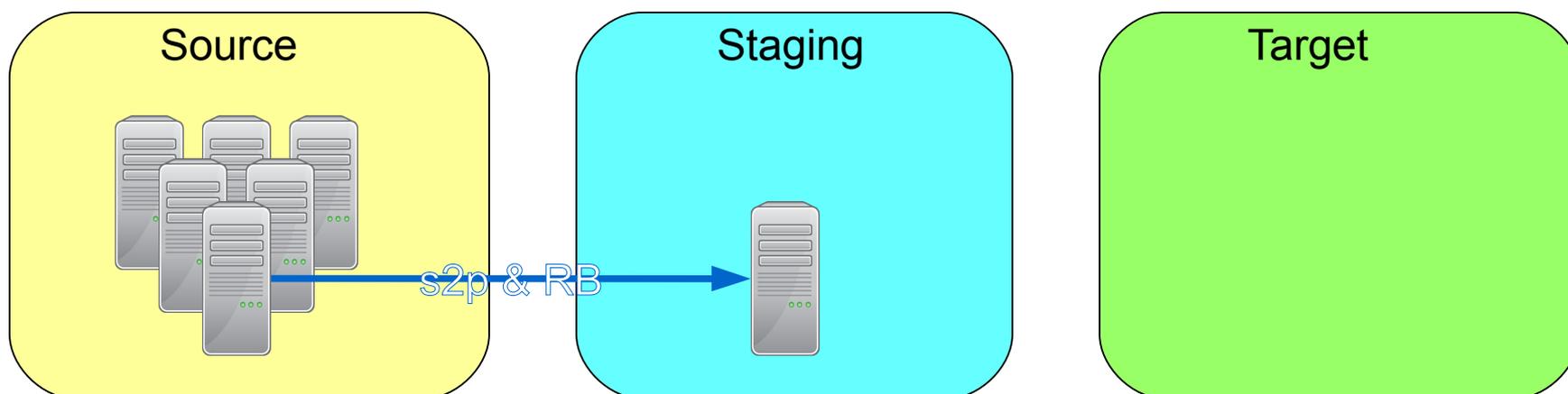
- Create staging server using s2p and RB
- Migrate staging server
- Build out the rest of the cluster





## Large Cluster

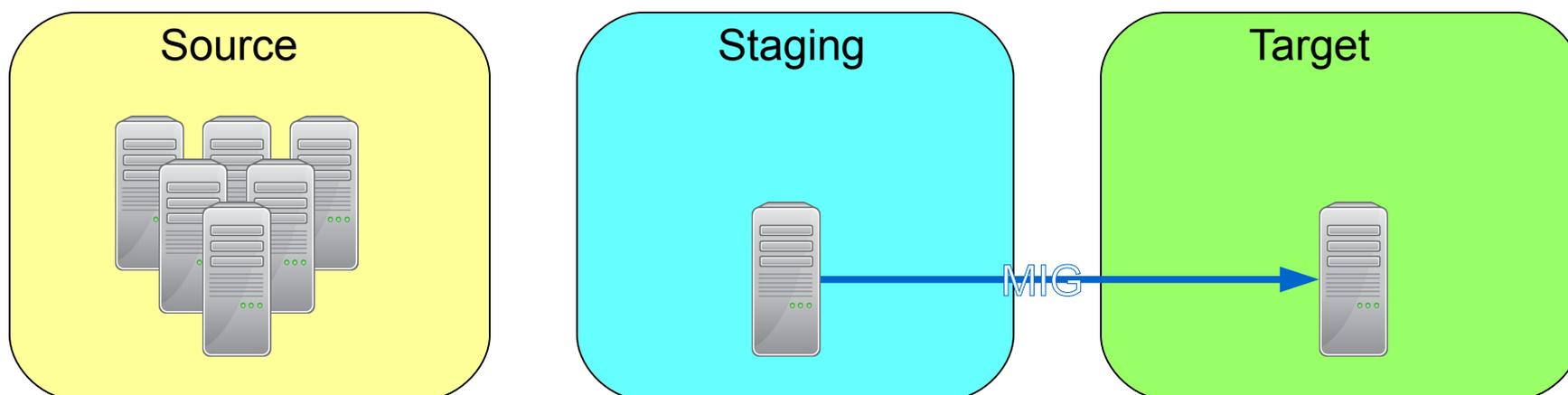
- Create staging server using s2p and RB
- Migrate staging server
- Build out the rest of the cluster





## Large Cluster

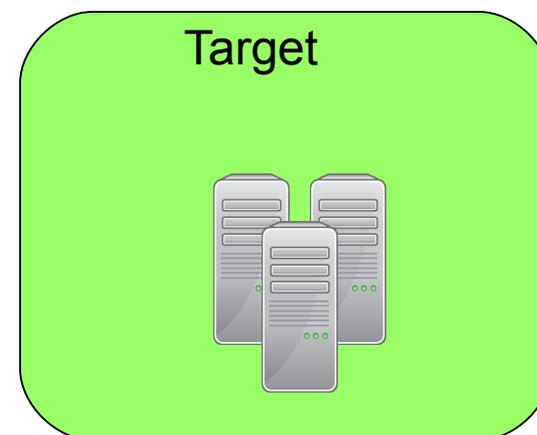
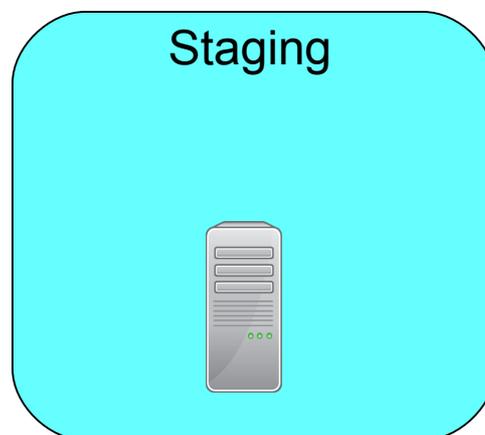
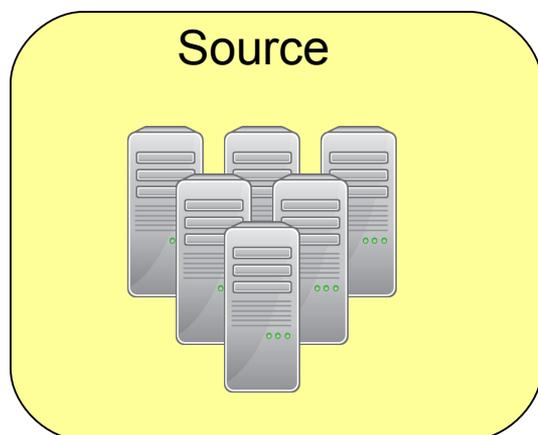
- Create staging server using s2p and RB
- **Migrate staging server**
- Build out the rest of the cluster





## Large Cluster

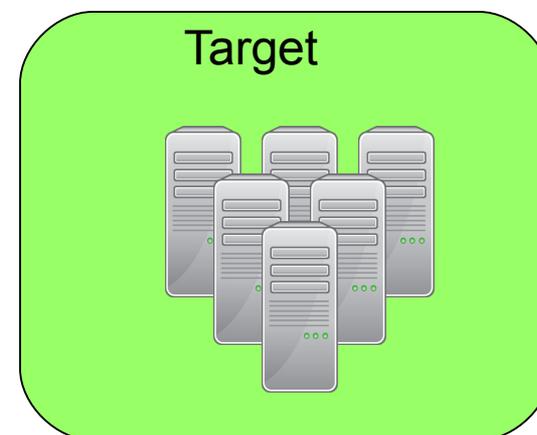
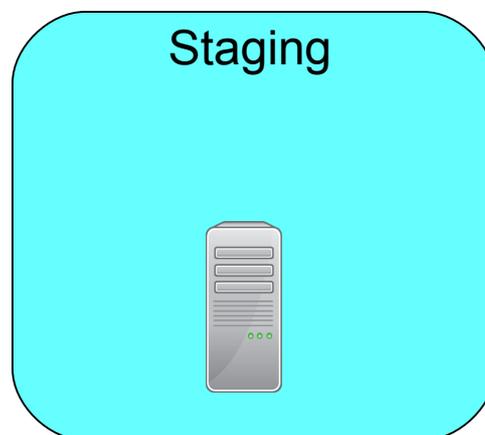
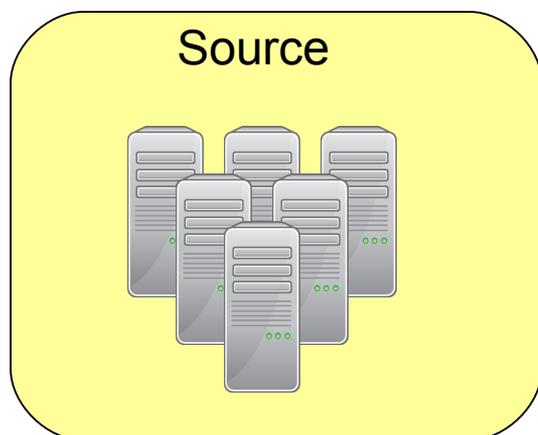
- Create staging server using s2p and RB
- Migrate staging server
- Build out the rest of the cluster





## Large Cluster

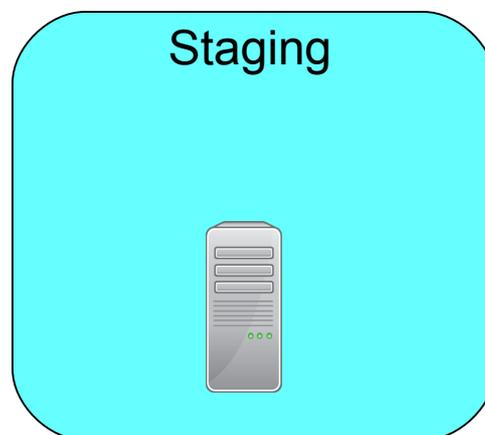
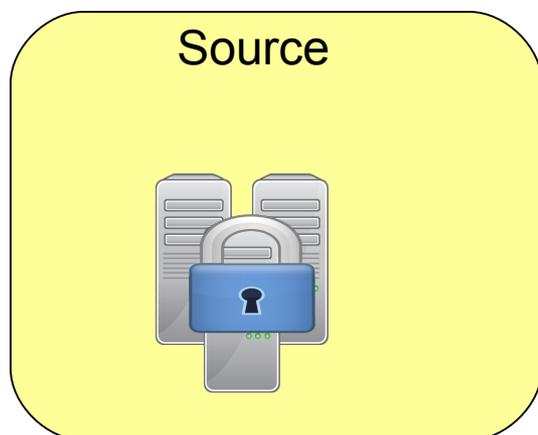
- Create staging server using s2p and RB
- Migrate staging server
- Build out the rest of the cluster





## Locked-down Environment

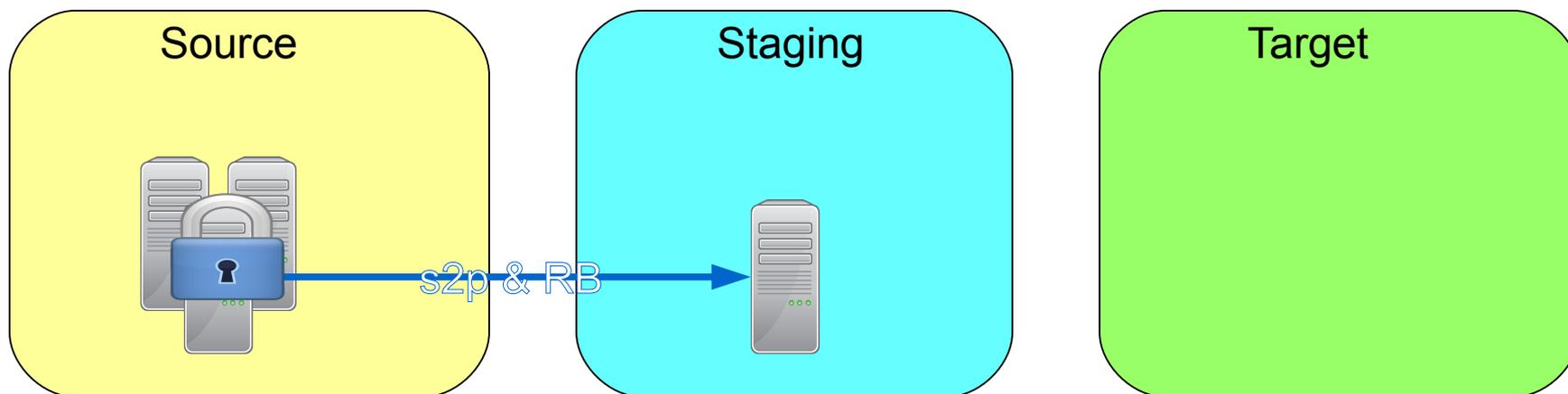
- Create staging server using s2p and RB
- Migrate staging server
- Build out the rest of the cluster





## Locked-down Environment

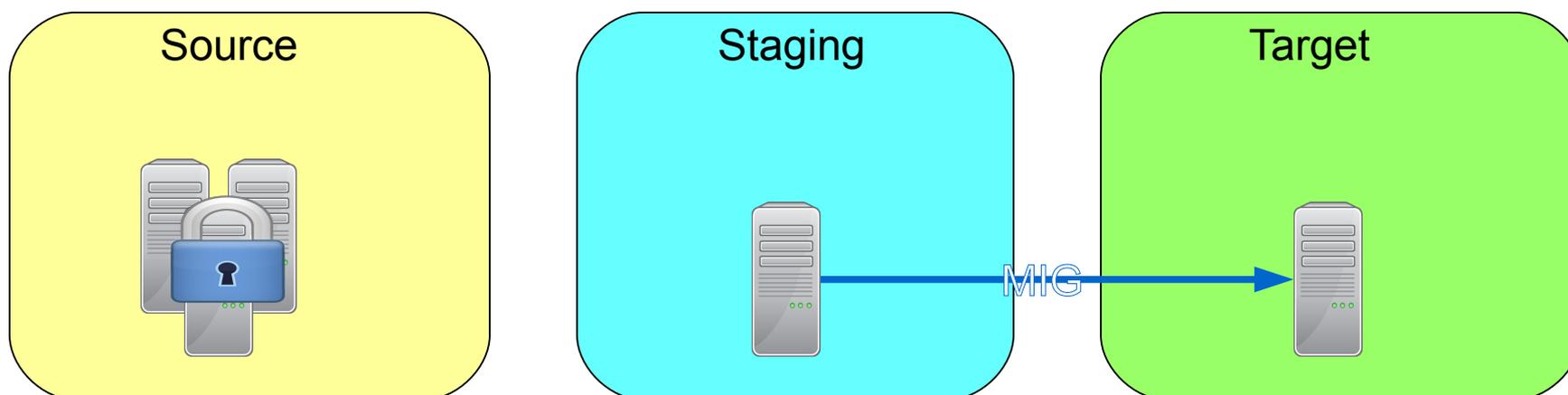
- Create staging server using s2p and RB
- Migrate staging server
- Build out the rest of the cluster





## Locked-down Environment

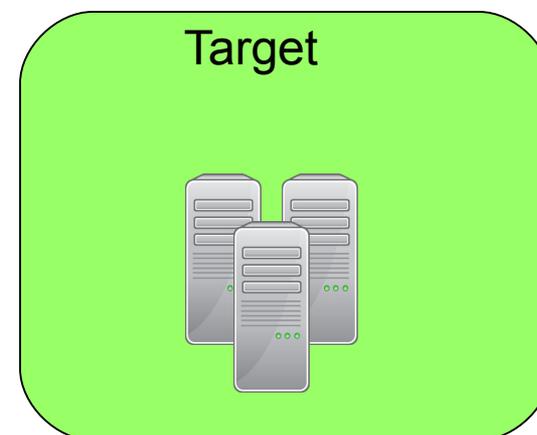
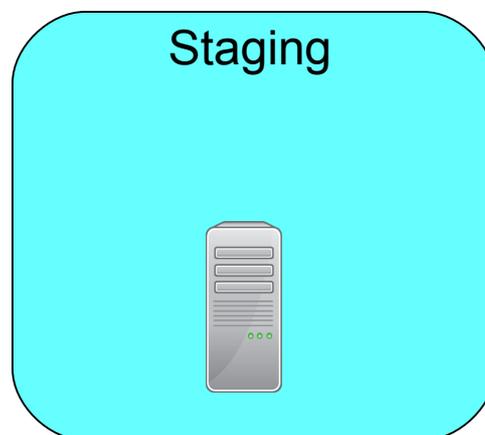
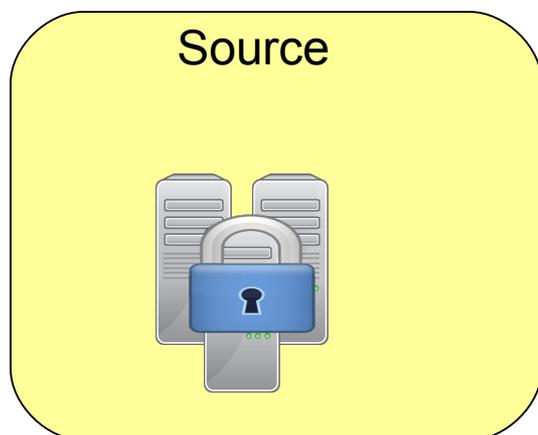
- Create staging server using s2p and RB
- **Migrate staging server**
- Build out the rest of the cluster





## Locked-down Environment

- Create staging server using s2p and RB
- Migrate staging server
- Build out the rest of the cluster





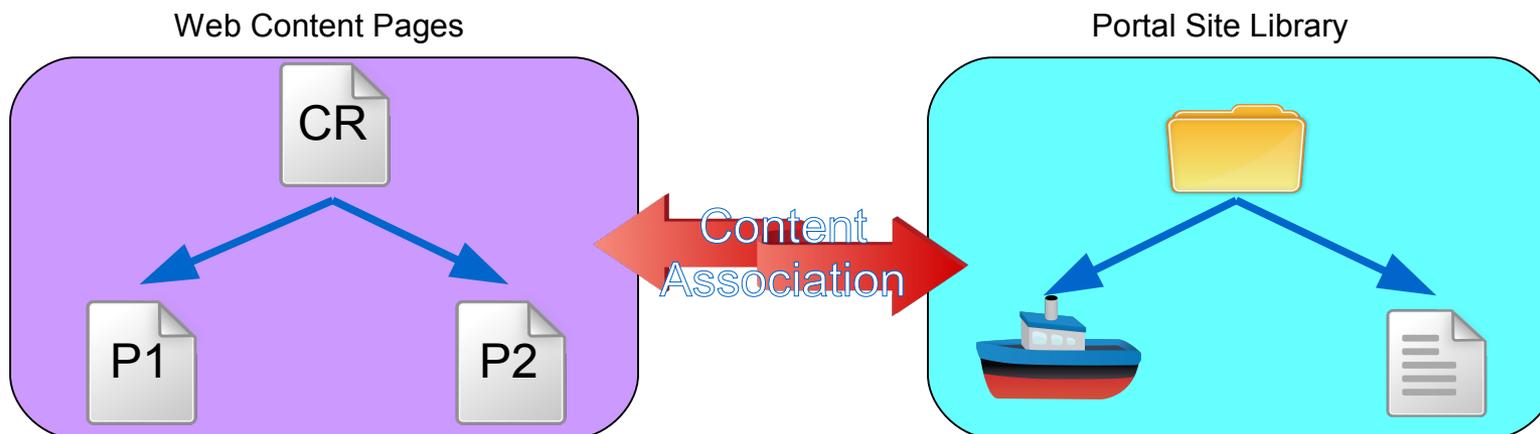
## Best Practices

- Keep migration plan simple and do not introduce unnecessary changes
- Use Staging to Production and ReleaseBuilder along with migration to build out the target environments
  - Make sure to consider differences in the environments – such as content, customization, test applications or site libraries – when using this strategy
- Migrate standalone servers and then build out the clusters
- Staging to Production and ReleaseBuilder can be used to create a staging environment for migration
  - This strategy is also used for migrating to IBM PureSystems or a Portal Farm from a cluster
- **Content-only migration is not supported in Portal 8**



# Managed Pages

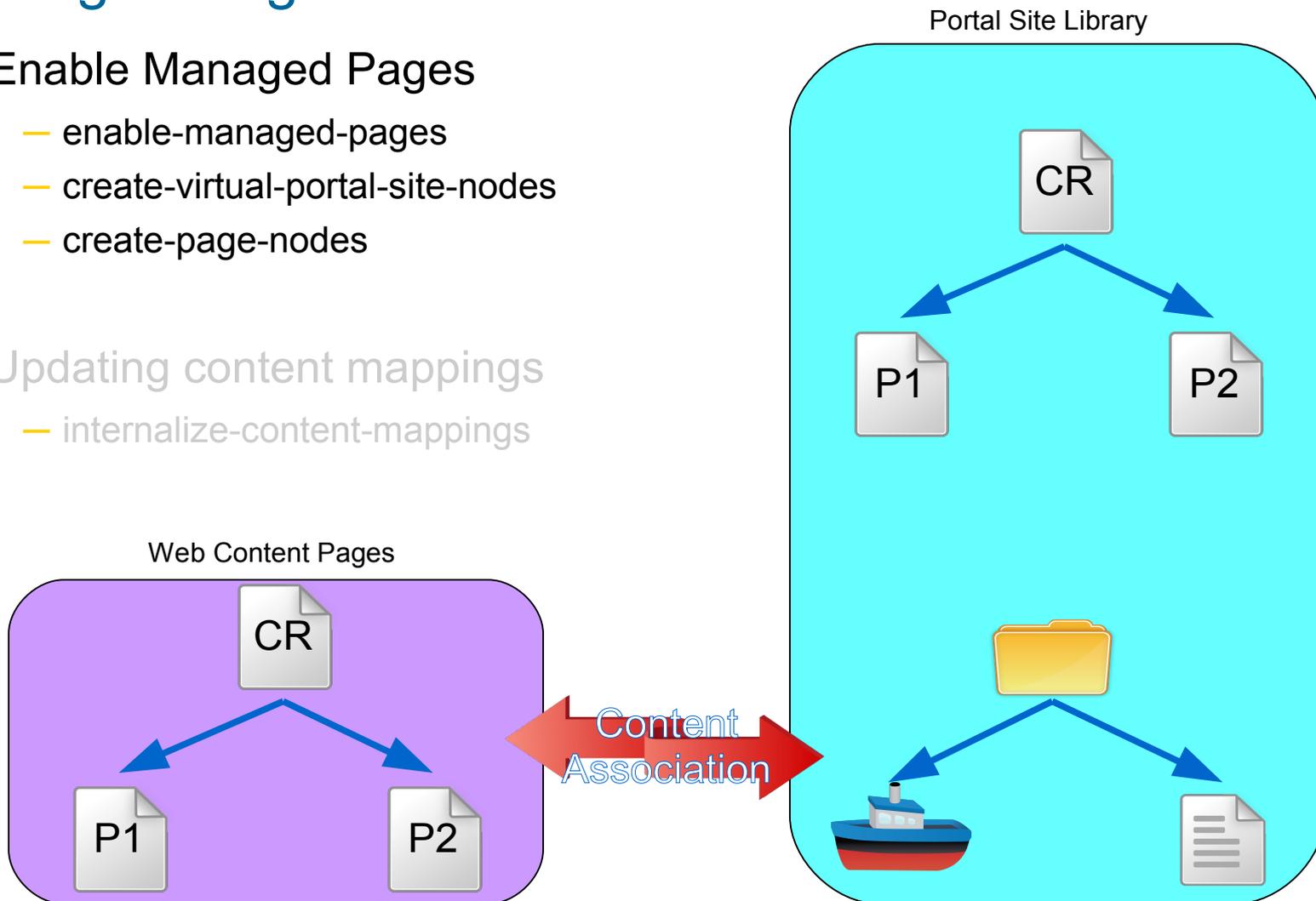
- Pages and content were maintained separately
  - This could lead to dangling pointers
- Managed Pages treats pages as content items





# Managed Pages

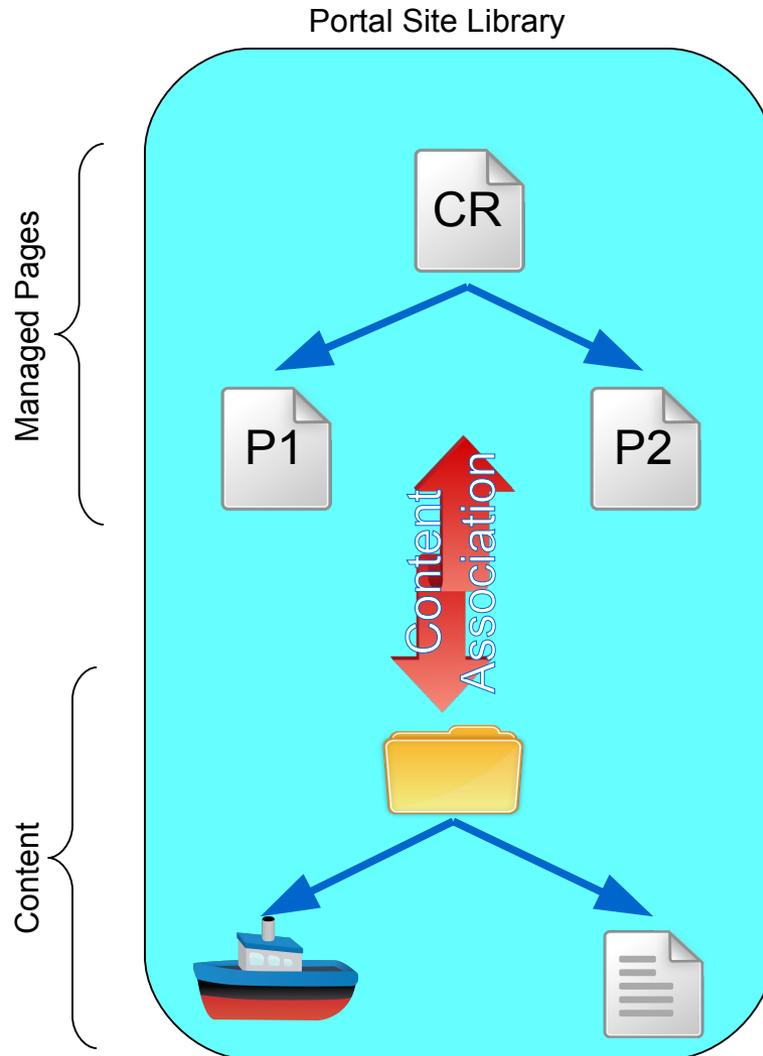
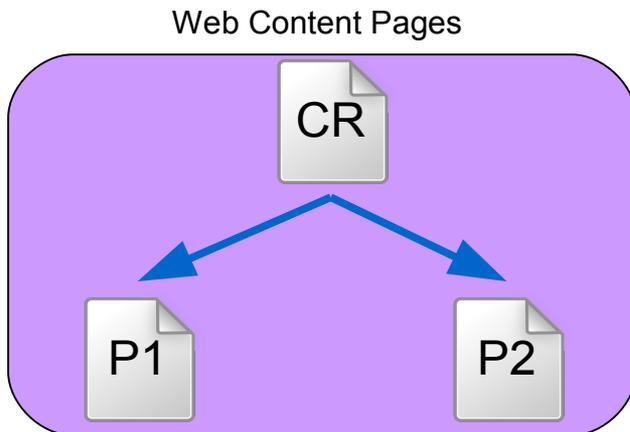
- Enable Managed Pages
  - enable-managed-pages
  - create-virtual-portal-site-nodes
  - create-page-nodes
- Updating content mappings
  - internalize-content-mappings





# Managed Pages

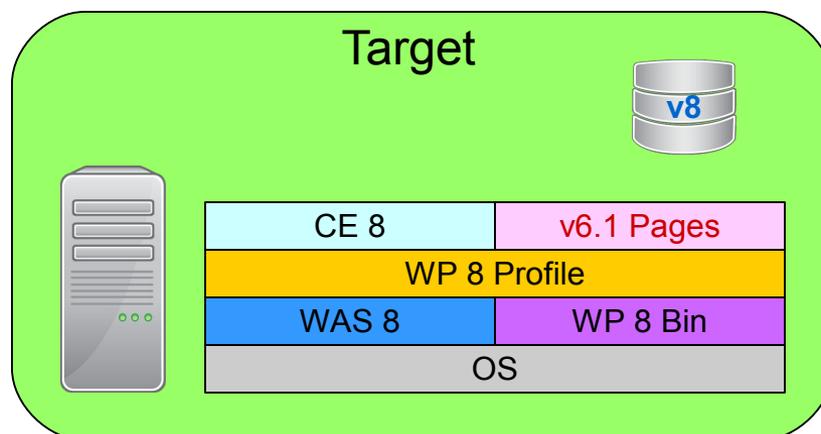
- Enable Managed Pages
  - enable-managed-pages
  - create-virtual-portal-site-nodes
  - create-page-nodes
- Updating content mappings
  - internalize-content-mappings





## Portal 8 Static Pages

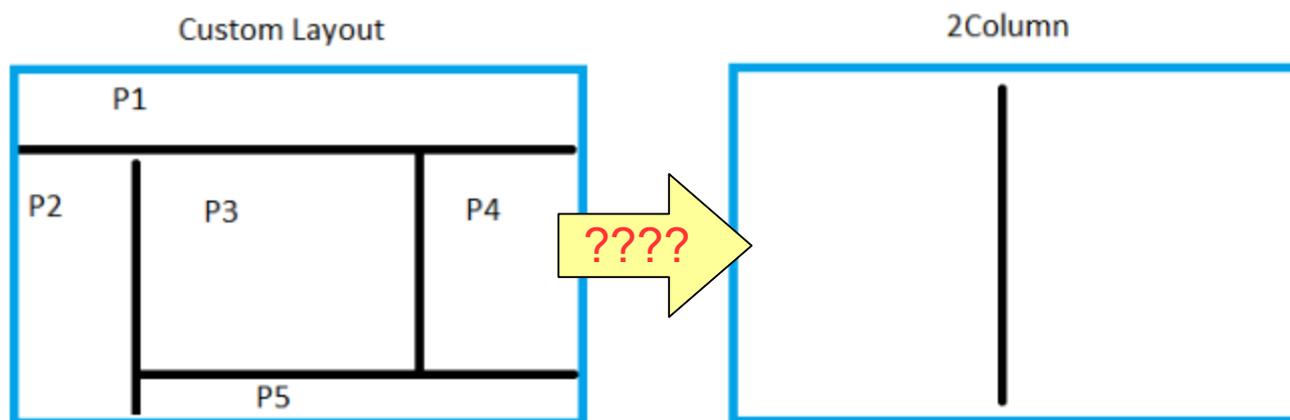
- New page format introduced in Portal 8
- Includes style information in the portlet containers
- Fixed layout which must be defined on the server
- Required to take full advantage of new Portal 8 WCM UI
- Portal 8 themes can only be applied to Portal Static Pages





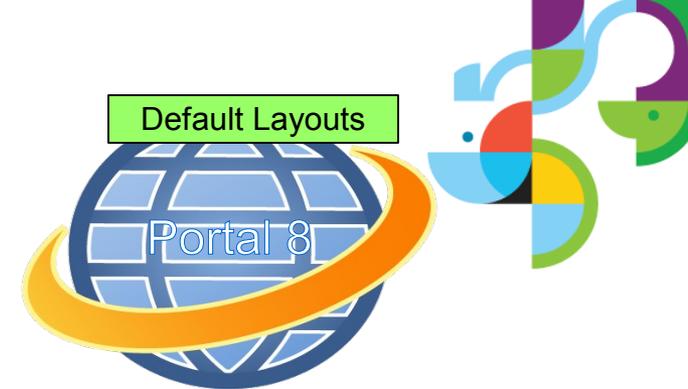
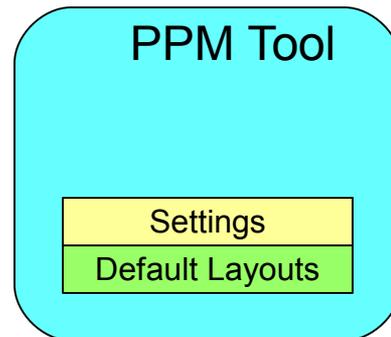
# Portal Page Migration

- Updates Page Tree XML exports
- Original pages are not modified
- Default layouts 
- Cannot be fully automated because of Custom Layouts



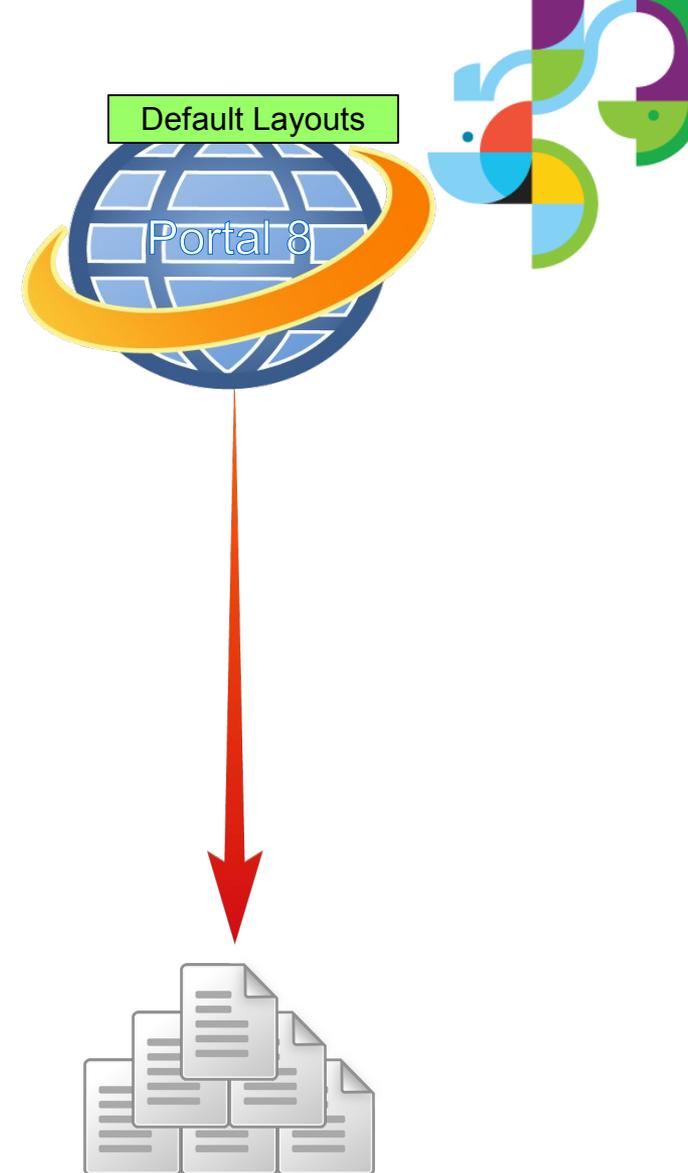
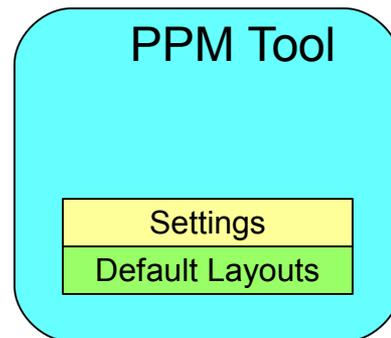
# Portal 8 Static Pages

- Export pages
- Define custom layout definitions for the tool
- Create custom layouts for Portal 8
- Setup the tool
- Run analysis
- Run migration
- Import new pages



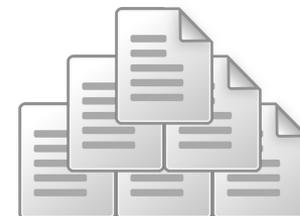
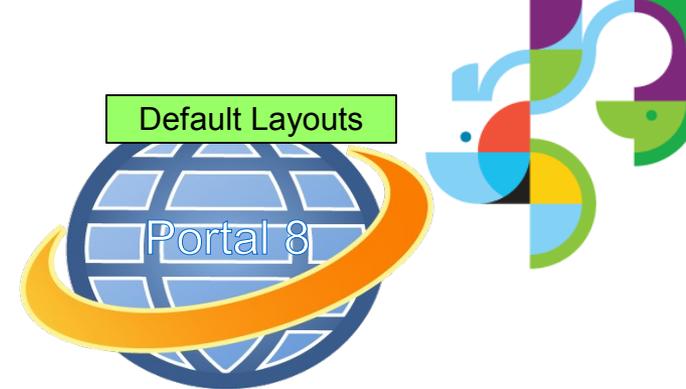
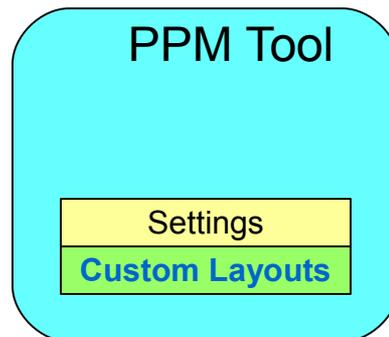
# Portal 8 Static Pages

- Export pages
- Define custom layout definitions for the tool
- Create custom layouts for Portal 8
- Setup the tool
- Run analysis
- Run migration
- Import new pages



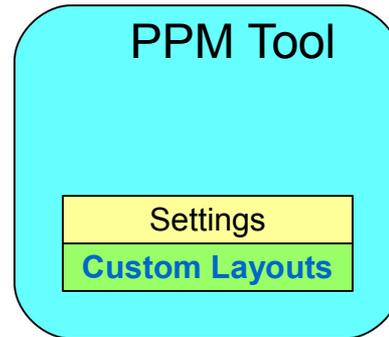
# Portal 8 Static Pages

- Export pages
- Define custom layout definitions for the tool
- Create custom layouts for Portal 8
- Setup the tool
- Run analysis
- Run migration
- Import new pages



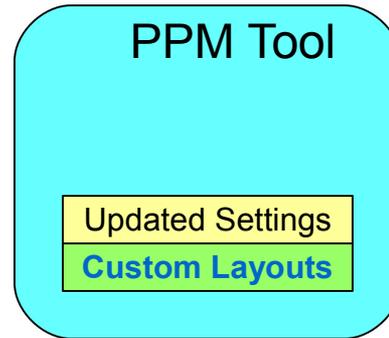
# Portal 8 Static Pages

- Export pages
- Define custom layout definitions for the tool
- Create custom layouts for Portal 8
- Setup the tool
- Run analysis
- Run migration
- Import new pages



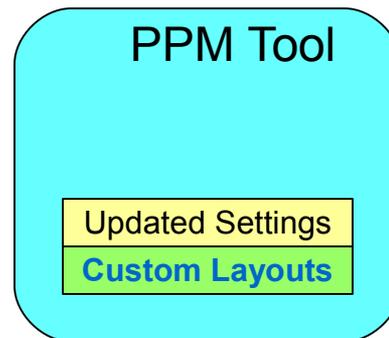
# Portal 8 Static Pages

- Export pages
- Define custom layout definitions for the tool
- Create custom layouts for Portal 8
- **Setup the tool**
- Run analysis
- Run migration
- Import new pages



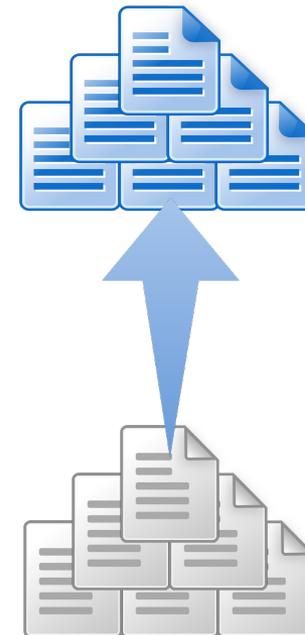
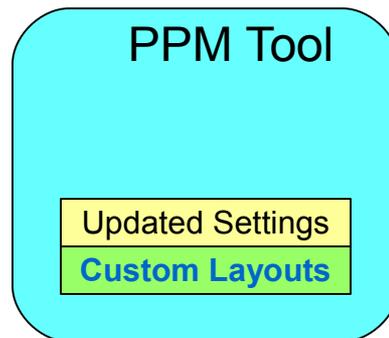
# Portal 8 Static Pages

- Export pages
- Define custom layout definitions for the tool
- Create custom layouts for Portal 8
- Setup the tool
- Run analysis
  - Repeat steps if needed
- Run migration
- Import new pages



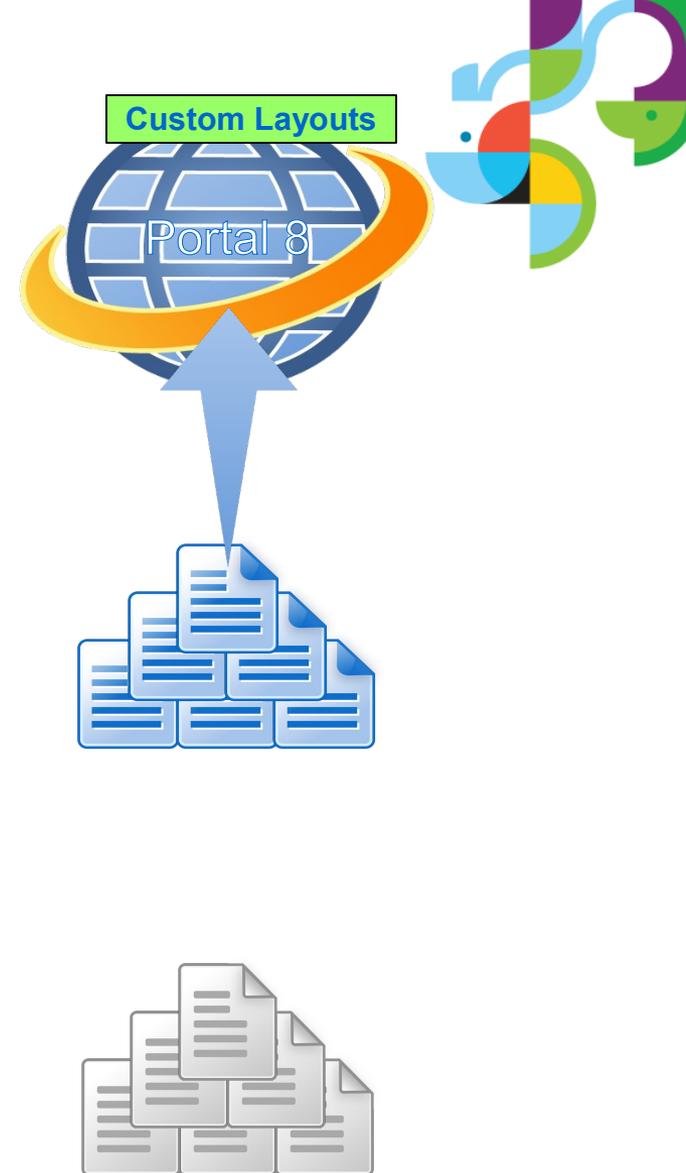
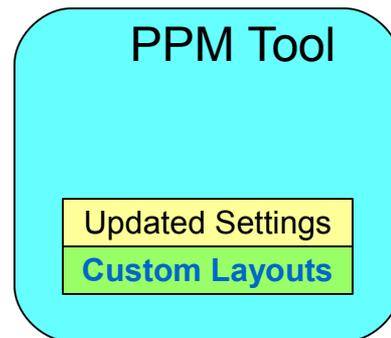
# Portal 8 Static Pages

- Export pages
- Define custom layout definitions for the tool
- Create custom layouts for Portal 8
- Setup the tool
- Run analysis
- **Run migration**
- Import new pages



# Portal 8 Static Pages

- Export pages
- Define custom layout definitions for the tool
- Create custom layouts for Portal 8
- Setup the tool
- Run analysis
- Run migration
- **Import new pages**
  - Exported pages not modified





# Resources

- [Portal 8 Wiki](#)

- <http://www-10.lotus.com/ldd/portalwiki.nsf/xpDocViewer.xsp?lookupName=IBM+WebSphere+Portal+8+Product+Documentation#action=openDocument&content=catcontent&ct=prodDoc>

- [Recommended fixes](#)

- <http://www-01.ibm.com/support/docview.wss?uid=swg27007603>

- [Staging to Production](#)

- [http://www-10.lotus.com/ldd/portalwiki.nsf/xpDocViewer.xsp?lookupName=IBM+WebSphere+Portal+8+Product+Documentation#action=openDocument&res\\_title=Staging\\_to\\_production\\_wp8&content=pdcontent](http://www-10.lotus.com/ldd/portalwiki.nsf/xpDocViewer.xsp?lookupName=IBM+WebSphere+Portal+8+Product+Documentation#action=openDocument&res_title=Staging_to_production_wp8&content=pdcontent)

- [Release Builder](#)

- [http://www-10.lotus.com/ldd/portalwiki.nsf/xpDocViewer.xsp?lookupName=IBM+WebSphere+Portal+8+Product+Documentation#action=openDocument&res\\_title=ReleaseBuilder\\_wp8&content=pdcontent](http://www-10.lotus.com/ldd/portalwiki.nsf/xpDocViewer.xsp?lookupName=IBM+WebSphere+Portal+8+Product+Documentation#action=openDocument&res_title=ReleaseBuilder_wp8&content=pdcontent)

- [Portal Page Migration Tool](#)

- <https://greenhouse.lotus.com/plugins/plugincatalog.nsf/assetDetails.xsp?action=editDocument&documentId=5190EB71148A2EC485257B2400510466>



Press \*1 on your telephone to ask a question.

Visit our [Support Technical Exchange](#) page or our [Facebook page](#) for details on future events.

To help shape the future of IBM software, take this quality survey and share your opinion of IBM software used within your organization: <https://ibm.biz/BdxqB2>



IBM Collaboration Solutions Support page  
<http://www.facebook.com/WebSpherePortalSupport>



WebSphere Portal  
<http://twitter.com/PortalSupport>