

ORACLE®

Enterprise Manager 13.2: Upgrade and Transition to DR Readiness

Overview

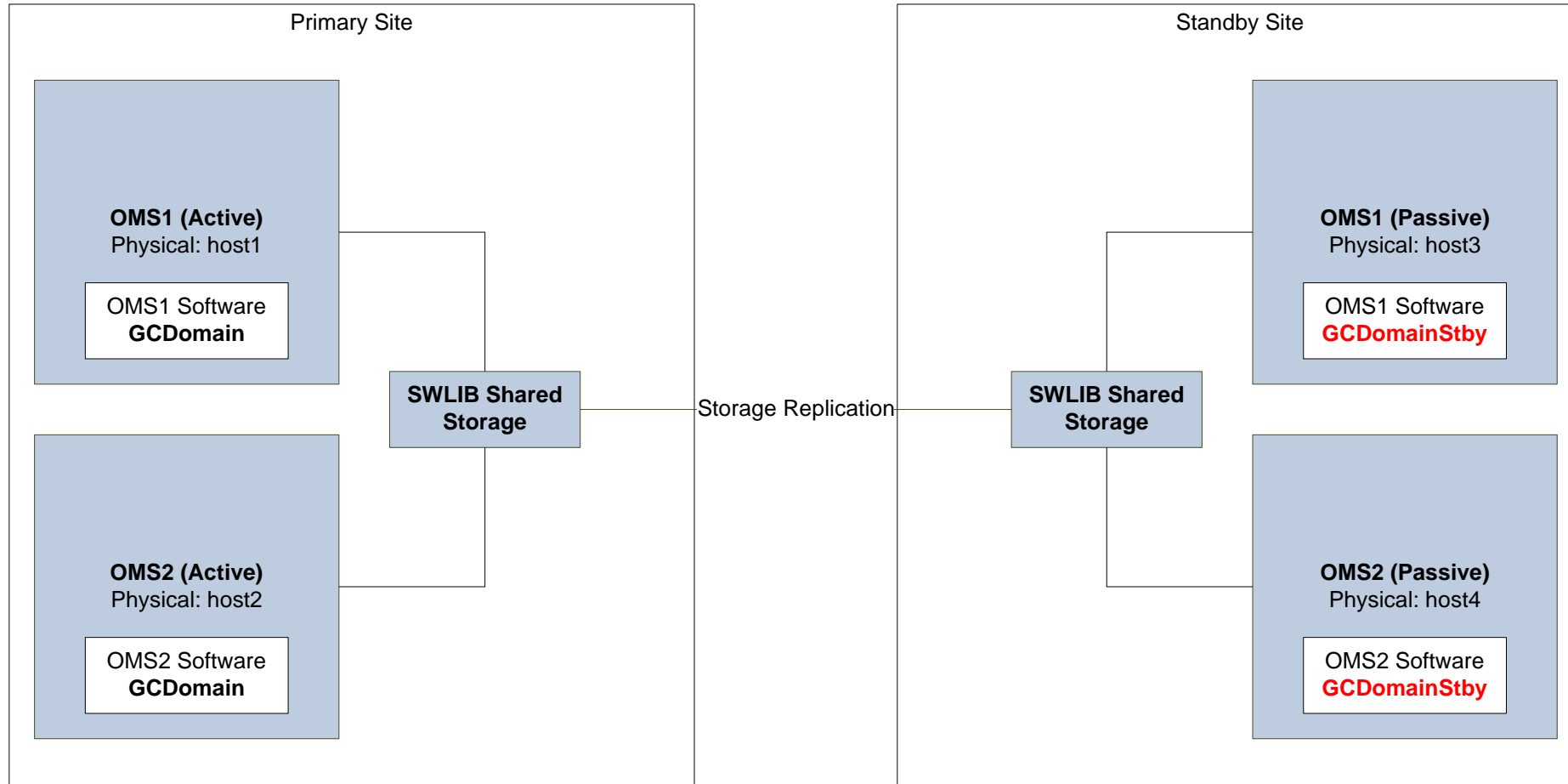
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Principal Member of Technical Staff
Maximum Availability Architecture
December 15, 2016

Overview

- Architectural Overview
- Upgrade and Transition to DR Readiness Process
- Detailed Transition Diagrams
- Resources

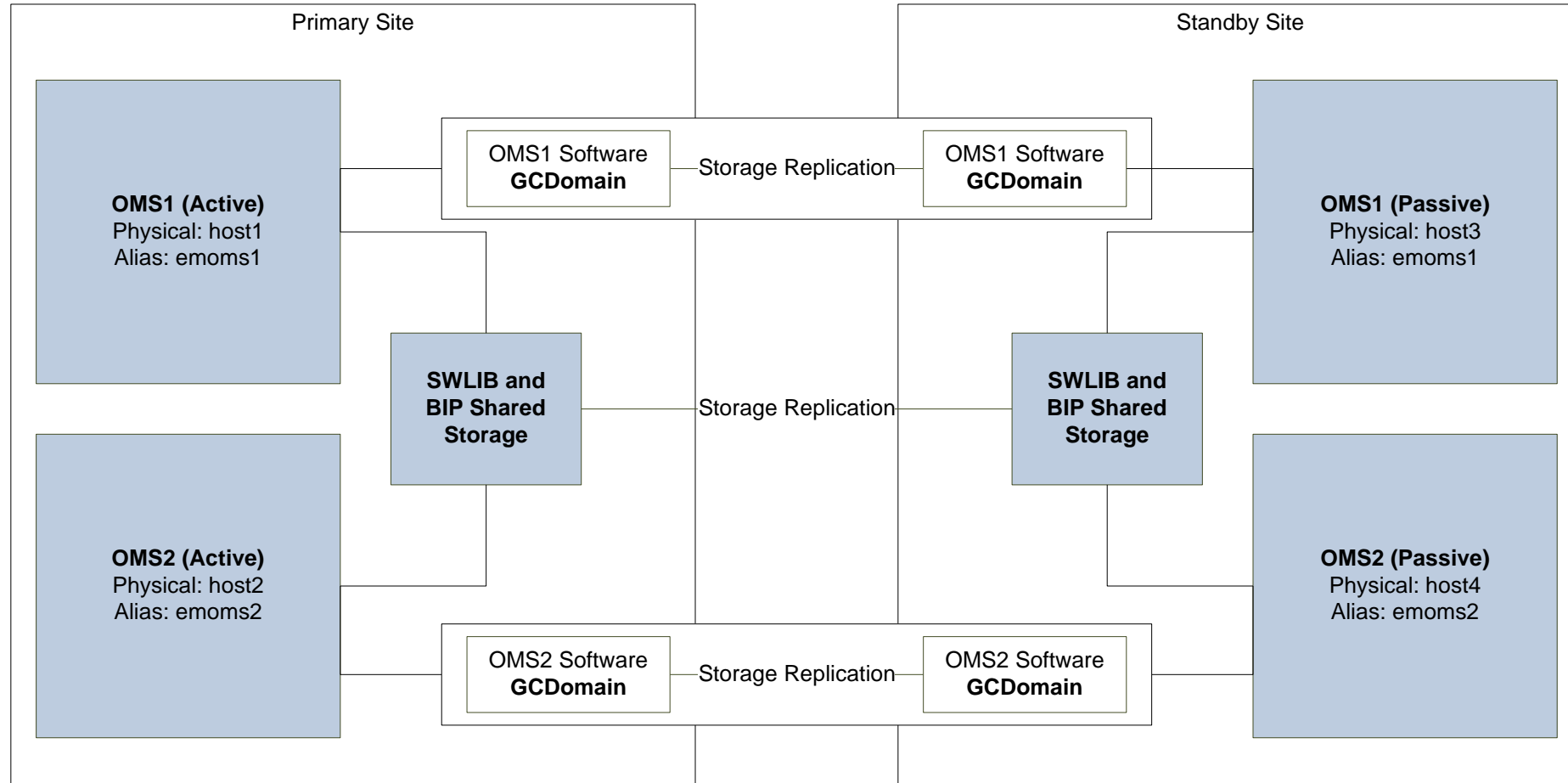
Architectural Overview

Standby OMSs using Standby WebLogic Domain



Architectural Overview

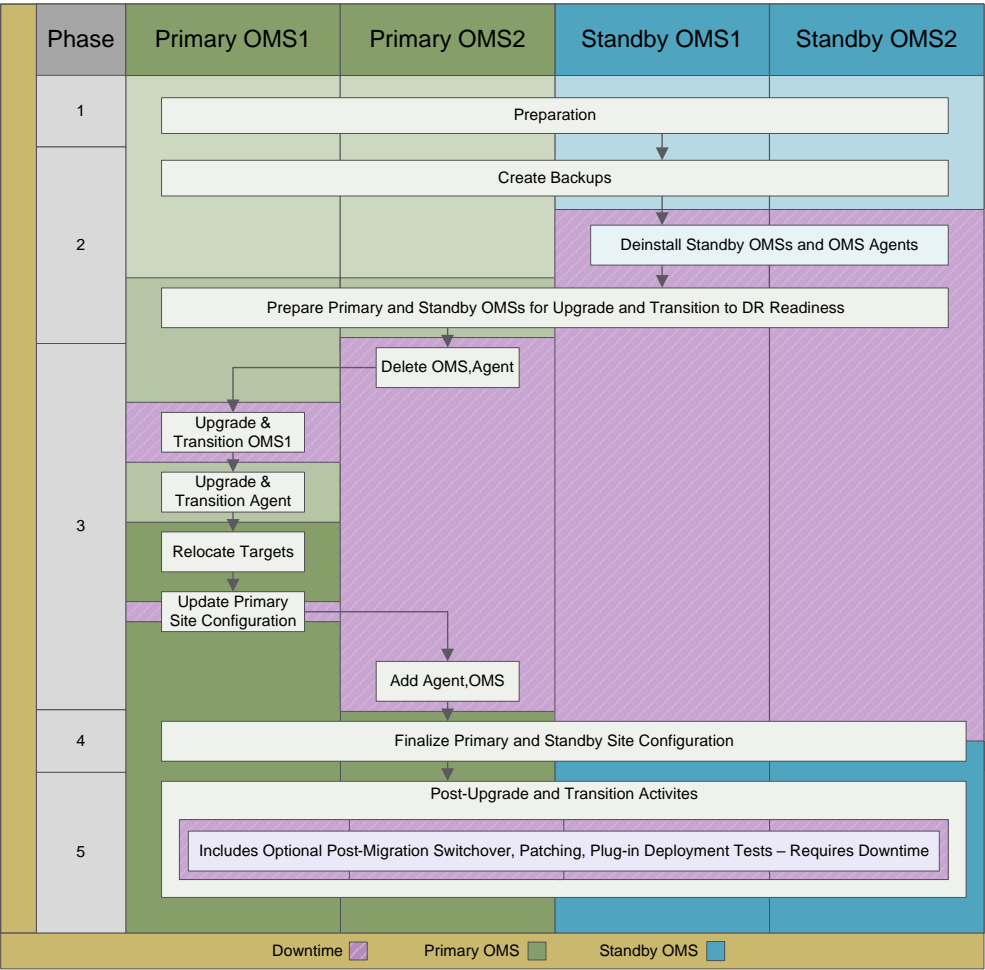
Standby OMSs using Storage Replication



EM 13.2 Upgrade and Transition to DR Readiness Process

Overview

Phase	Step(s)
1	Preparation
2	Create backups Deinstall Standby OMSs and OMS Agents Prepare Primary and Standby OMSs for Upgrade and Transition to DR Readiness
3	Delete Primary OMS2 and OMS2 Agent Upgrade and Transition OMS1 and Repository Transition the OMS1 Agent to DR Readiness Update Primary Site Configuration Add new Primary OMS2 Alias Hostname Agent and OMS2
4	Finalize Primary and Standby Site Configuration
5	Post-Upgrade and Transition Activities



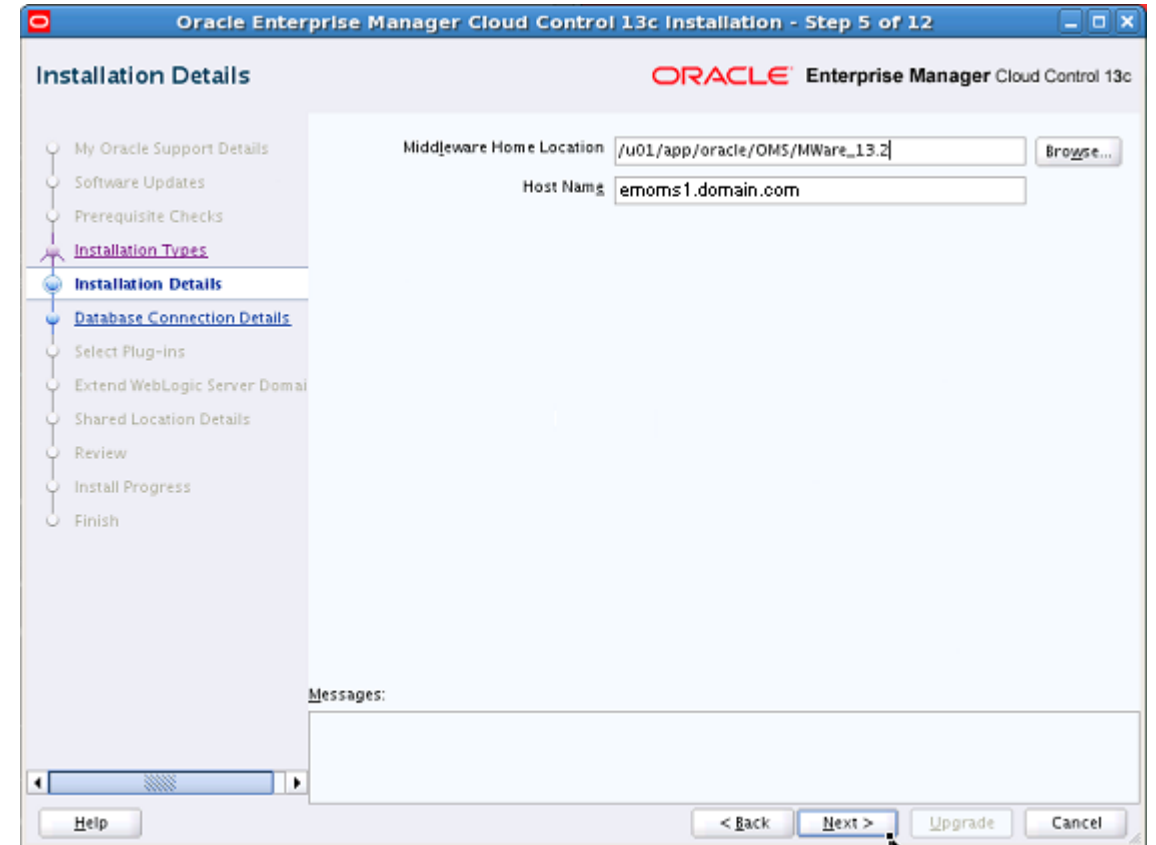
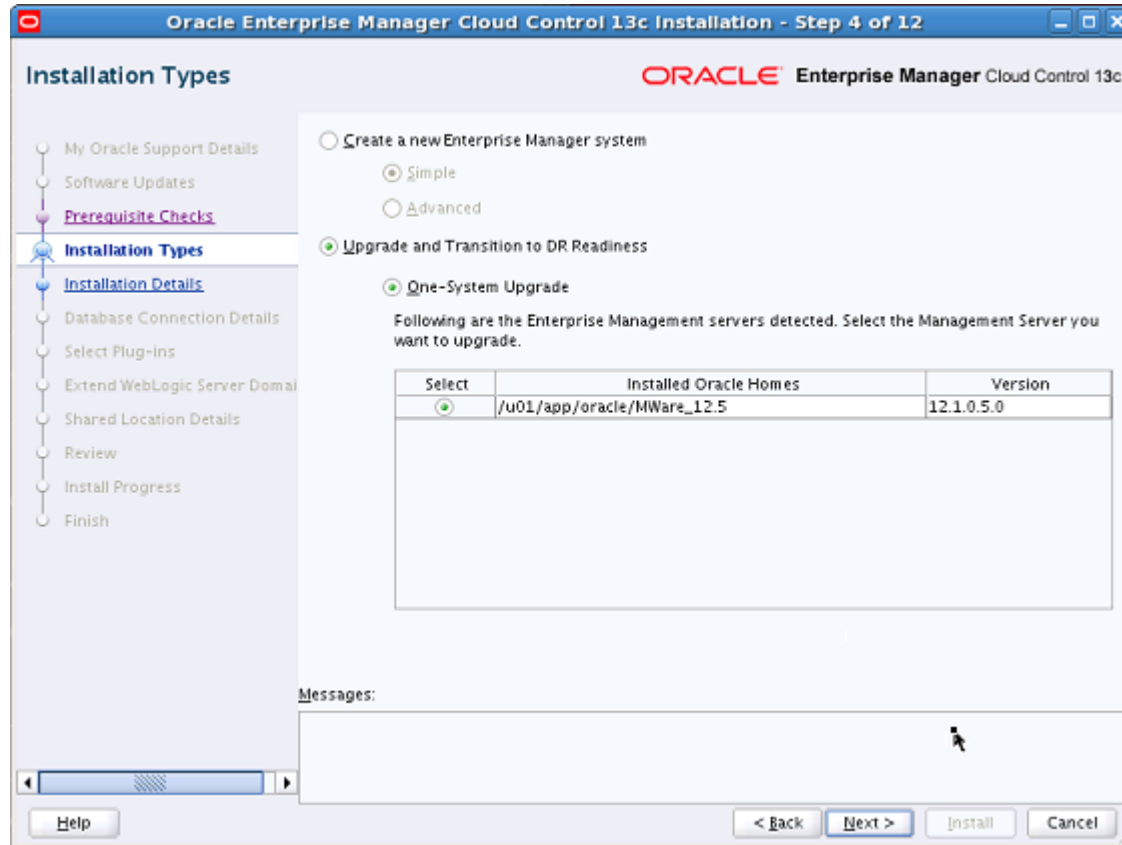
EM 13.2 Upgrade and Transition to DR Readiness

New installer mode

- EM 13.2 Installer has new mode Upgrade and Transition to DR Readiness
 - Enabled by passing new parameter UPGRADE_TRANSITION
 - Also requires additional new parameter OLD_INVENTORY_LOCATION
 - Extends support for existing parameter ORACLE_HOSTNAME
 - Uses existing parameter -invPtrLoc
 - Only supported in GUI (**no support for silent or Software Only, ConfigureGC.sh**)
- Installer performs the following in this mode
 - Relocation of OMS to replicated storage (software and inventory)
 - Configuration of OMS to use alias hostname

EM 13.2 Upgrade and Transition to DR Readiness

New installer mode



EM 13.2 Upgrade and Transition to DR Readiness

Process leverages other capabilities

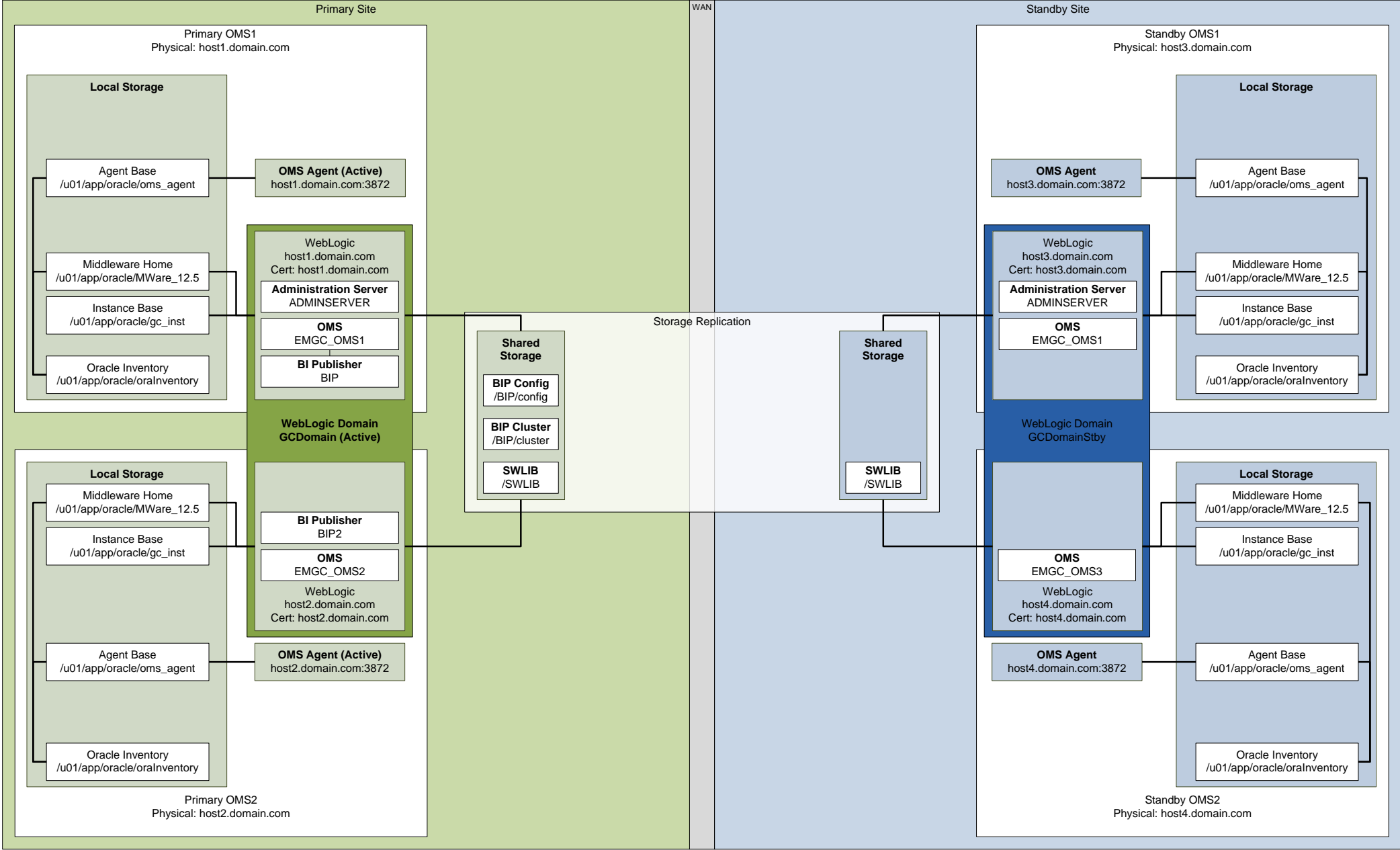
- Other steps performed using other capabilities, including:
 - Deinstalls (Standby WLS OMSs, Agents, Domain; Primary Additional OMS(s))
 - Lock file relocation is still manual task
 - Relocation of Agent via AgentMigrate.pl script (software and inventory)
 - Agent recovery to use alias hostname using agentDeploy.sh
 - Target Relocation from physical to alias agent and host name using emcli verbs
 - emcli config emrep
 - emcli relocate_wls ←(new verb)
 - Add Oracle Management Service deployment procedure
 - Regeneration of WebLogic Server Demo Certs

Detailed Transition Diagrams

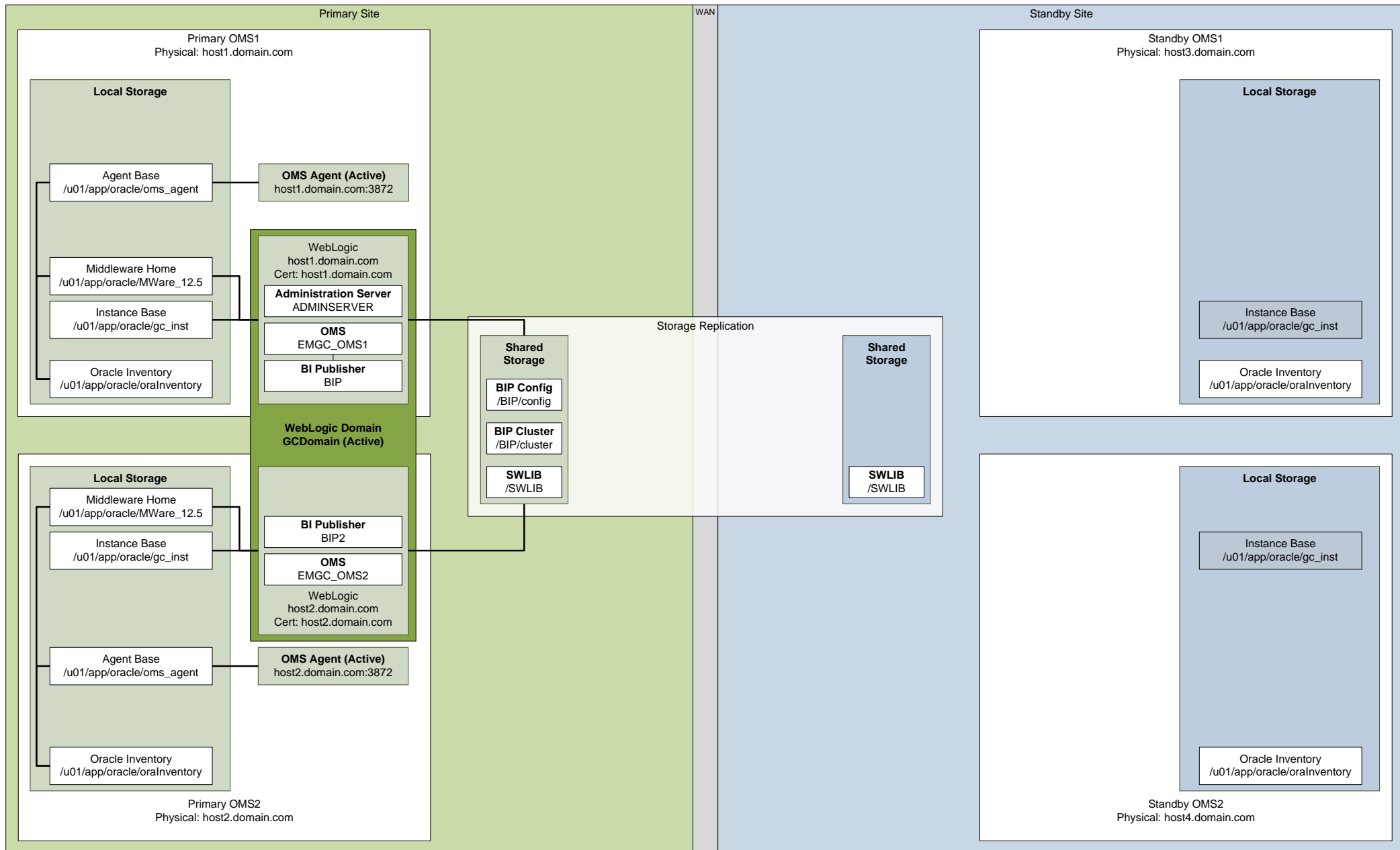
Graphical depiction by phase

- Multiple focus areas
 - Configuration transition from physical to alias host names
 - Installed location and associated inventory location of components over time
 - Local storage vs. replicated storage
 - Deinstallation/Installation of components
 - Remaining directories until cleanup
- Drawings depicted consistently to enable rapid before/after comparison

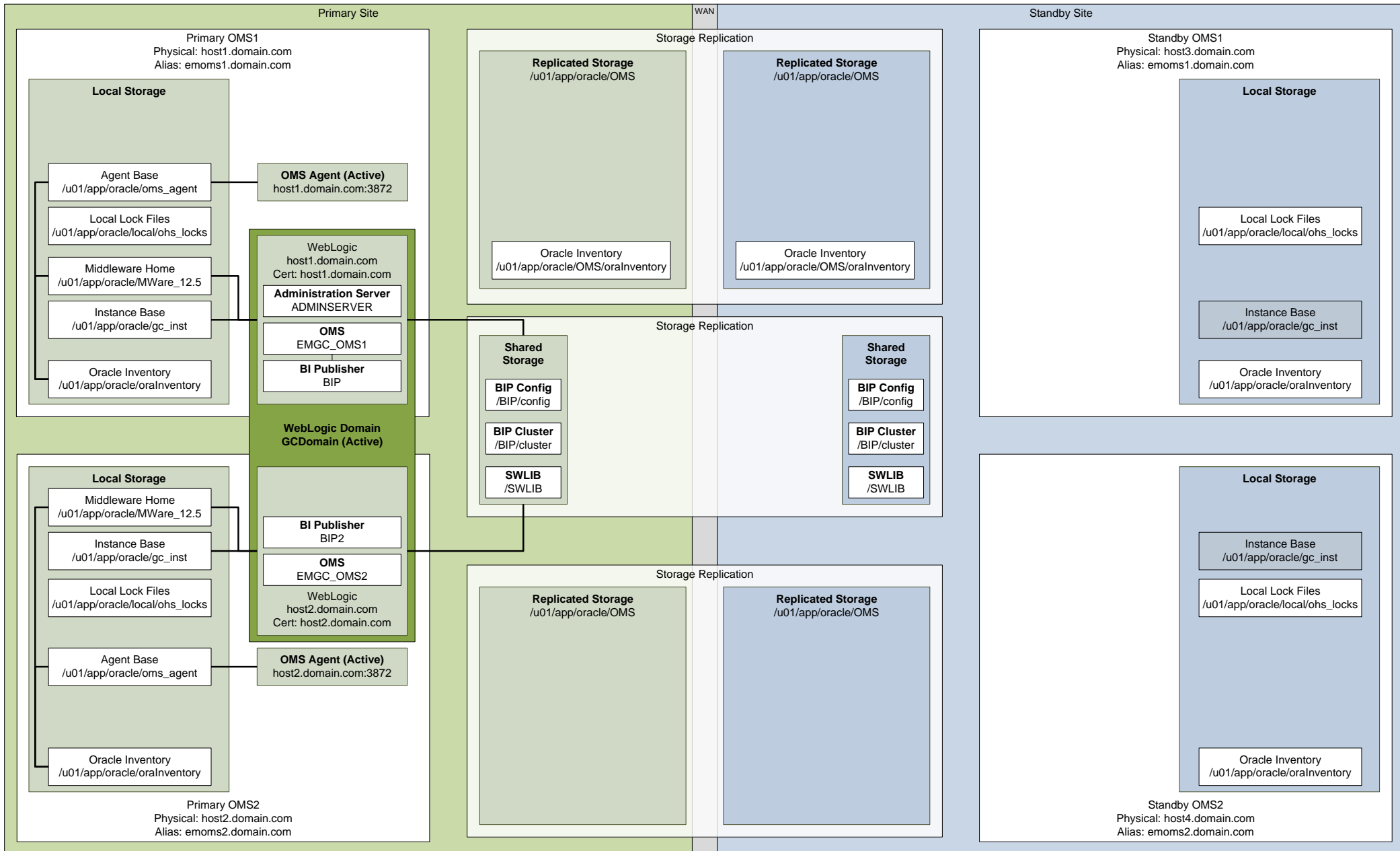
Phase 1 Complete



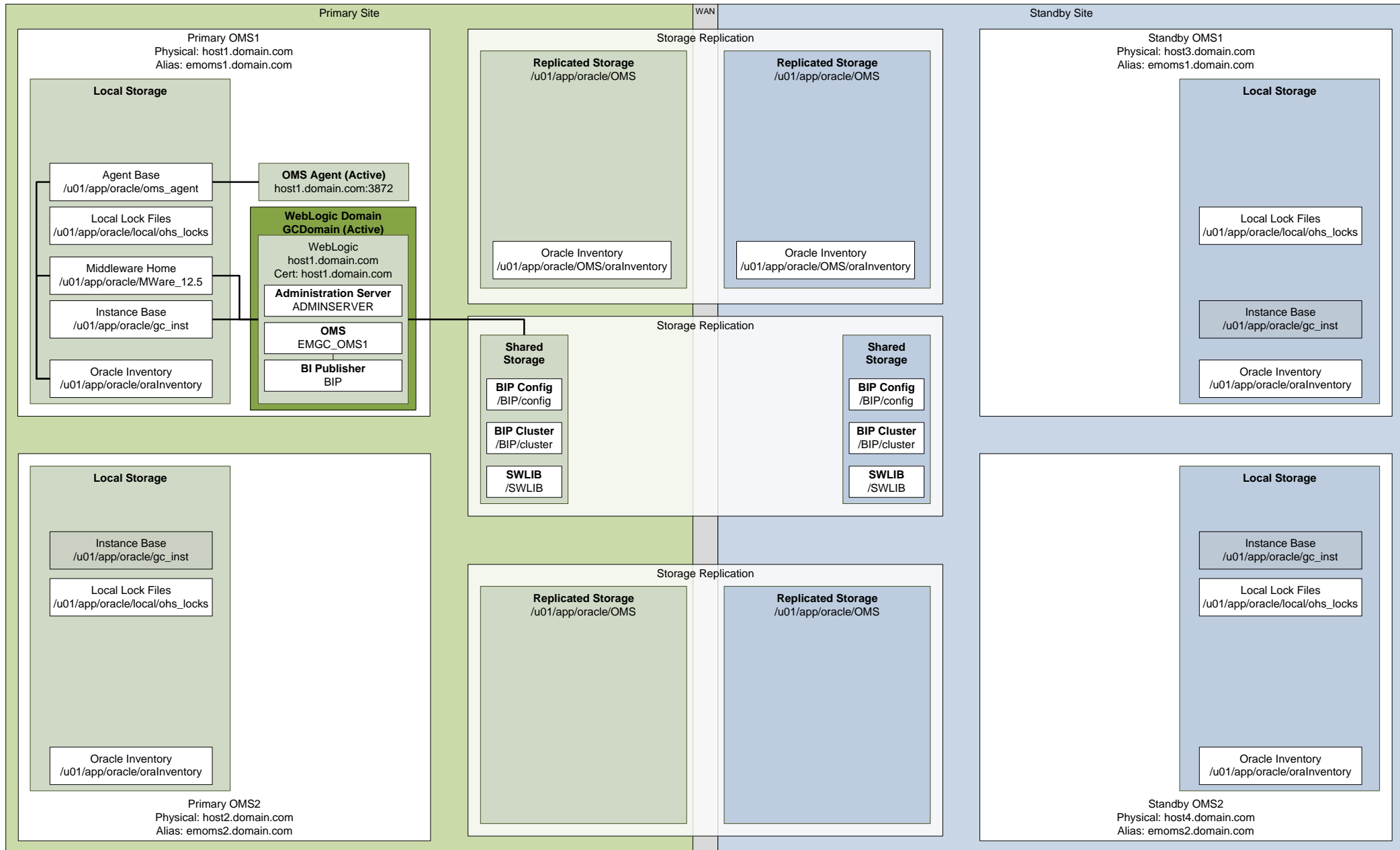
Phase 2 Deinstall Standby



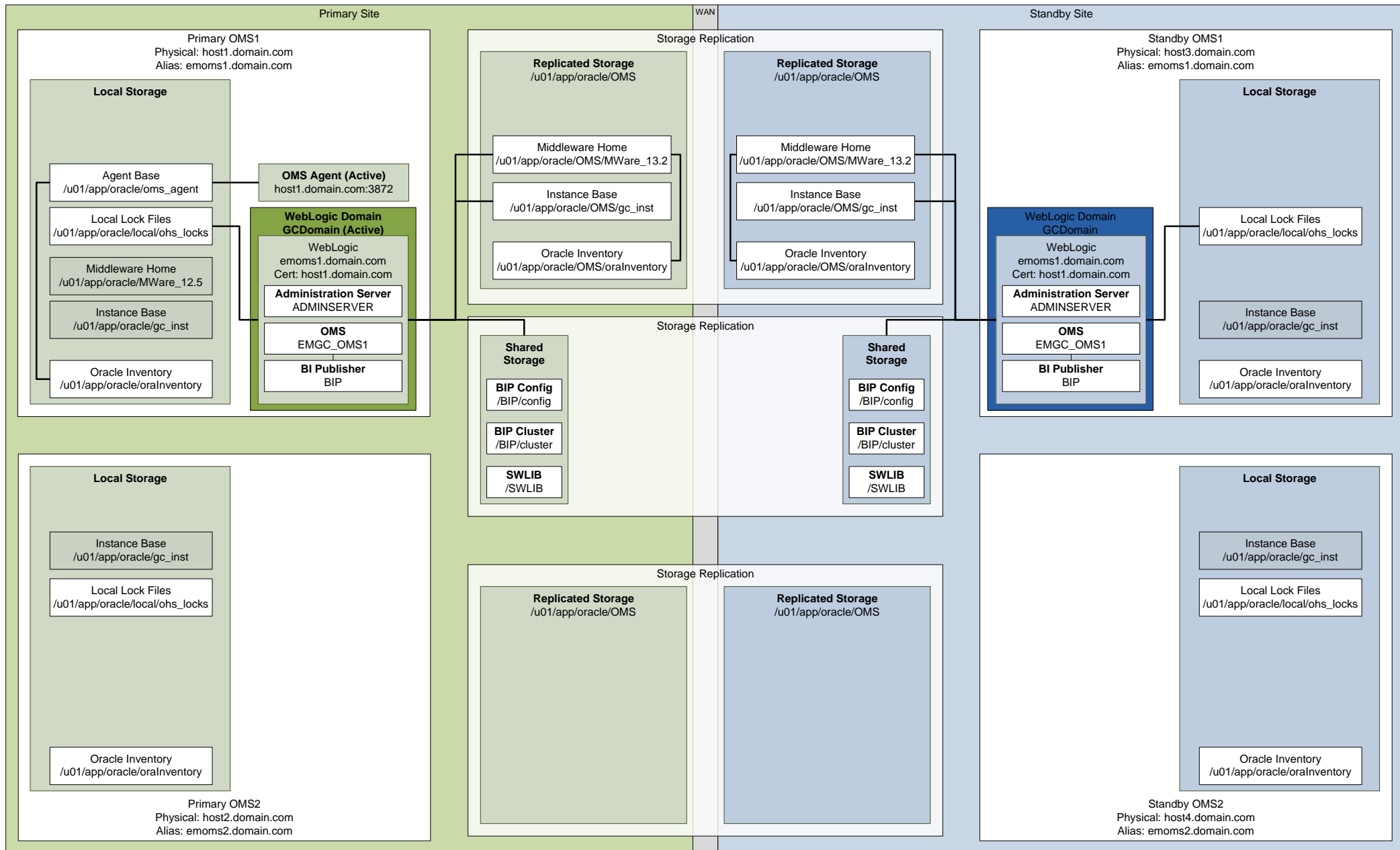
Phase 2 Complete



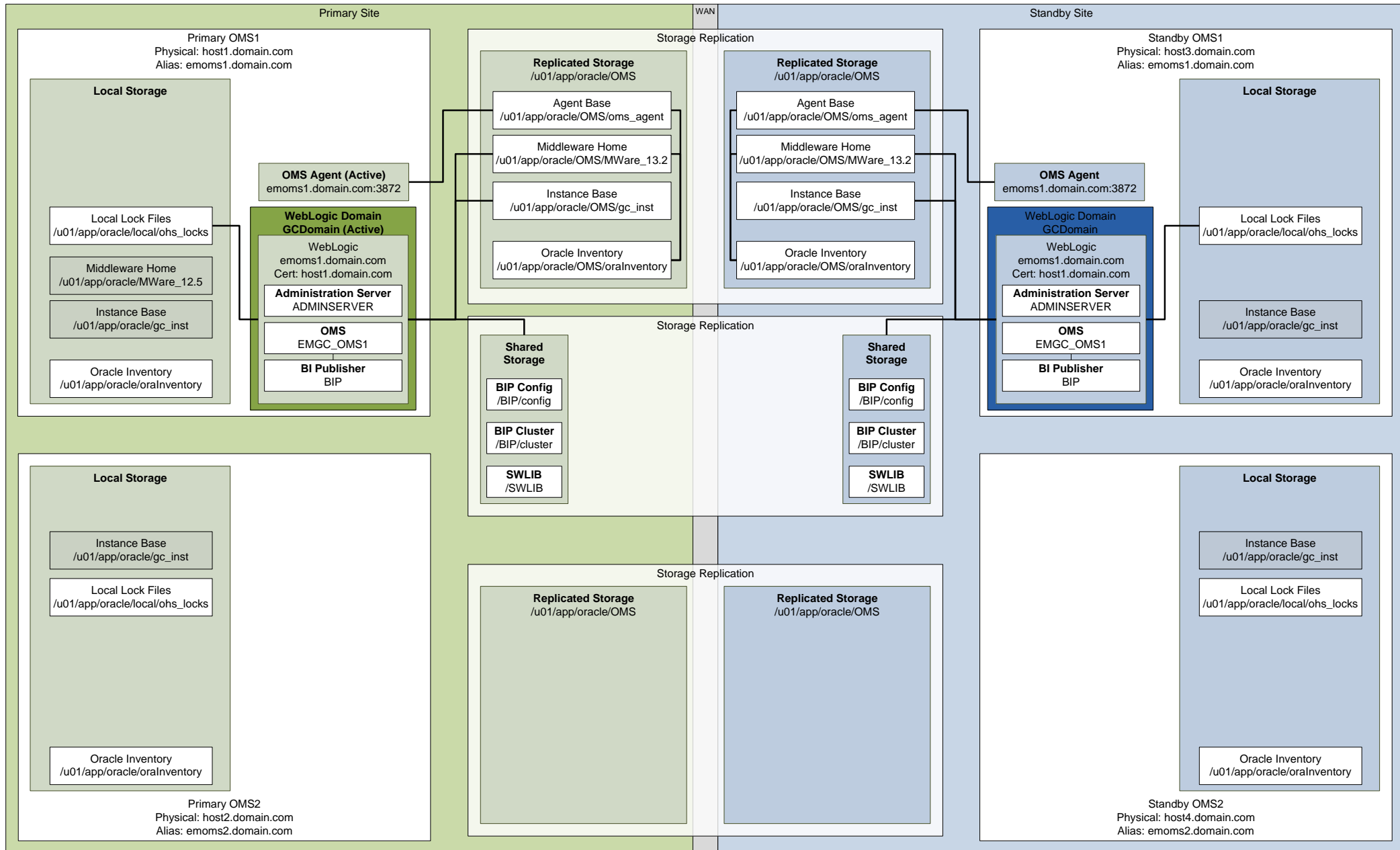
Phase 3 Delete Primary OMS2



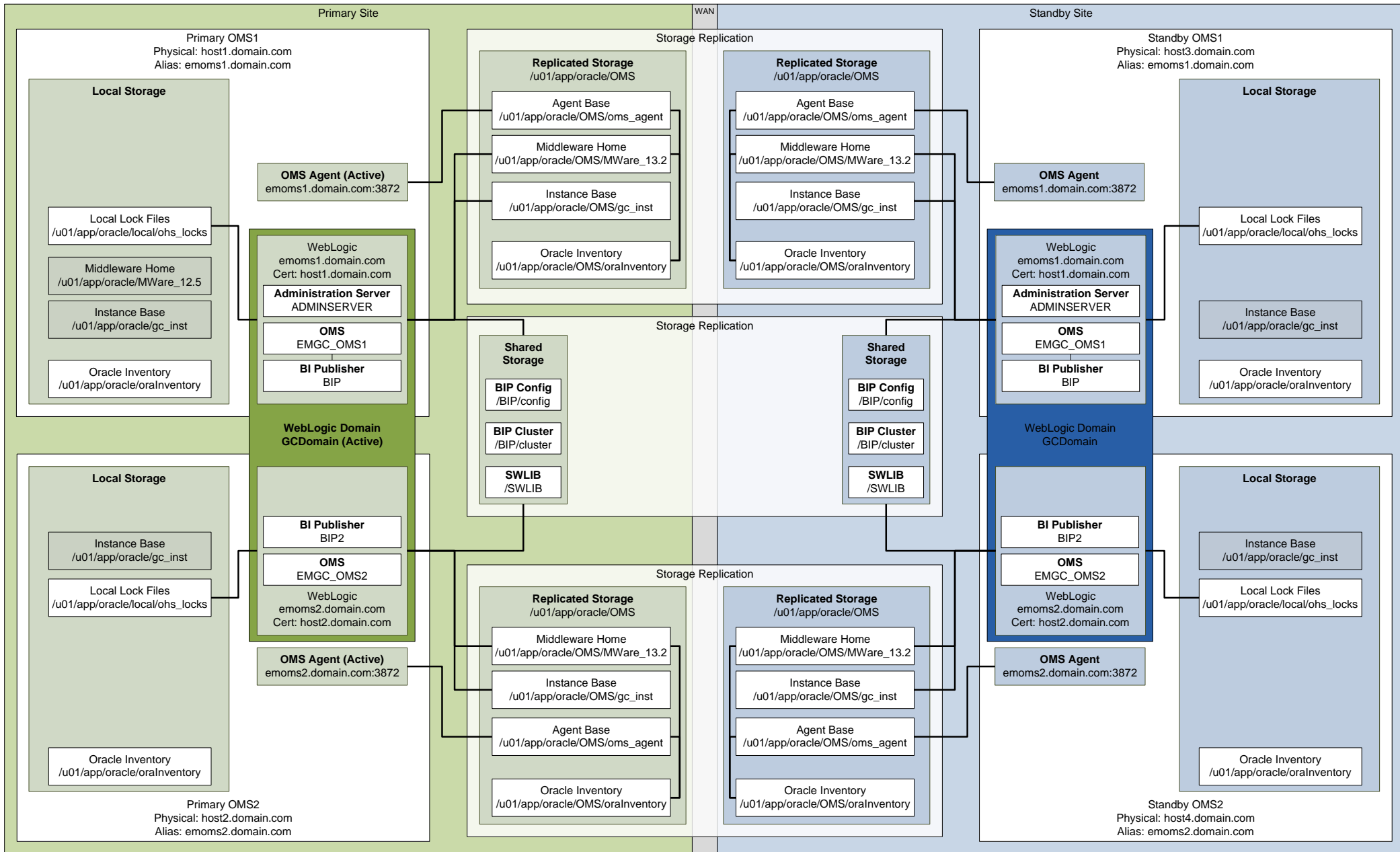
Phase 3 Upgrade and Transition OMS1



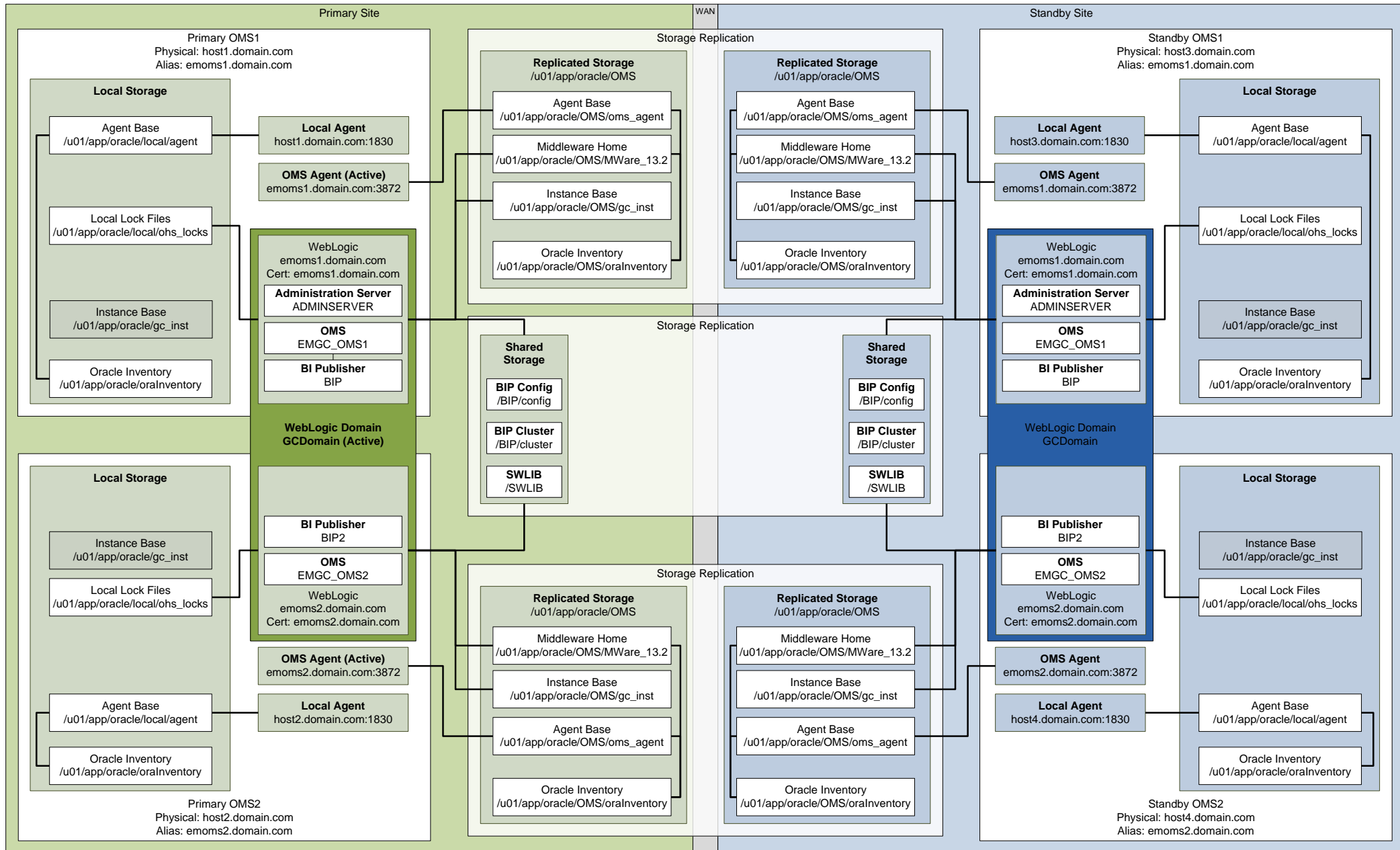
Phase 3 Transition OMS1 Agent



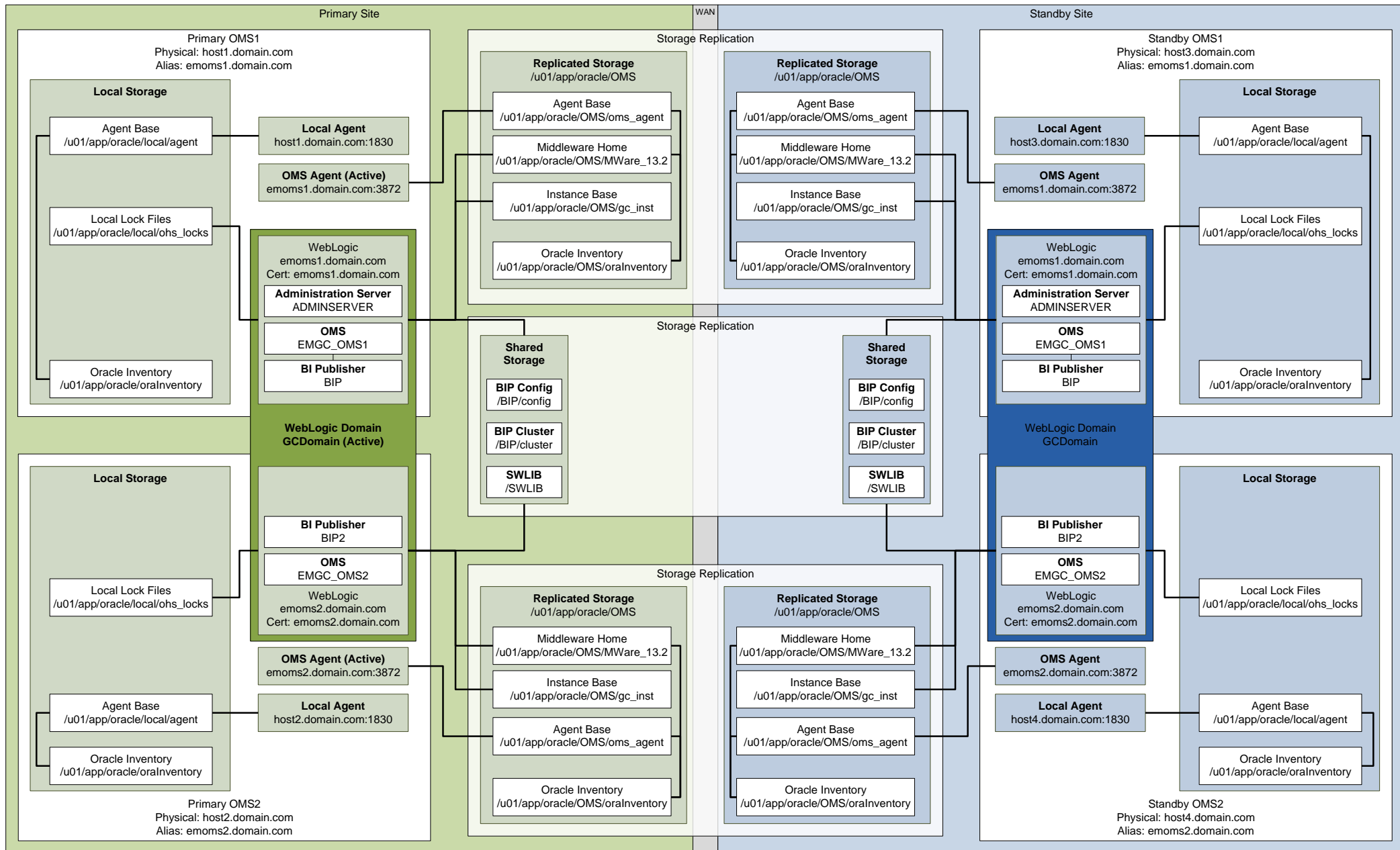
Phase 3 Complete



Phase 4 Complete



Phase 5 Complete



Resources

- For more details on Upgrade and Transition to DR Readiness, see:
 - When is the EM 13.2 Upgrade and Transition to DR Readiness process necessary?
 - Describes which environments are or are not candidates for the process
 - [Enterprise Manager 13.2: Upgrade and Transition to DR Readiness - When is Upgrade and Transition necessary?](#)
 - EM 13.2 Upgrade Guide
 - [Upgrading Enterprise Manager and Transitioning to DR Readiness](#)
 - MAA Whitepaper
 - Contains step-by-step instructions for a representative two OMS MAA Level 4 environment
 - Use as a supplementary resource for the general instructions in the Upgrade Guide
 - [Upgrading Enterprise Manager 12c to 13c and Transitioning to DR Readiness: A Step-by-Step Guide](#)

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Applications & Platform Services

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