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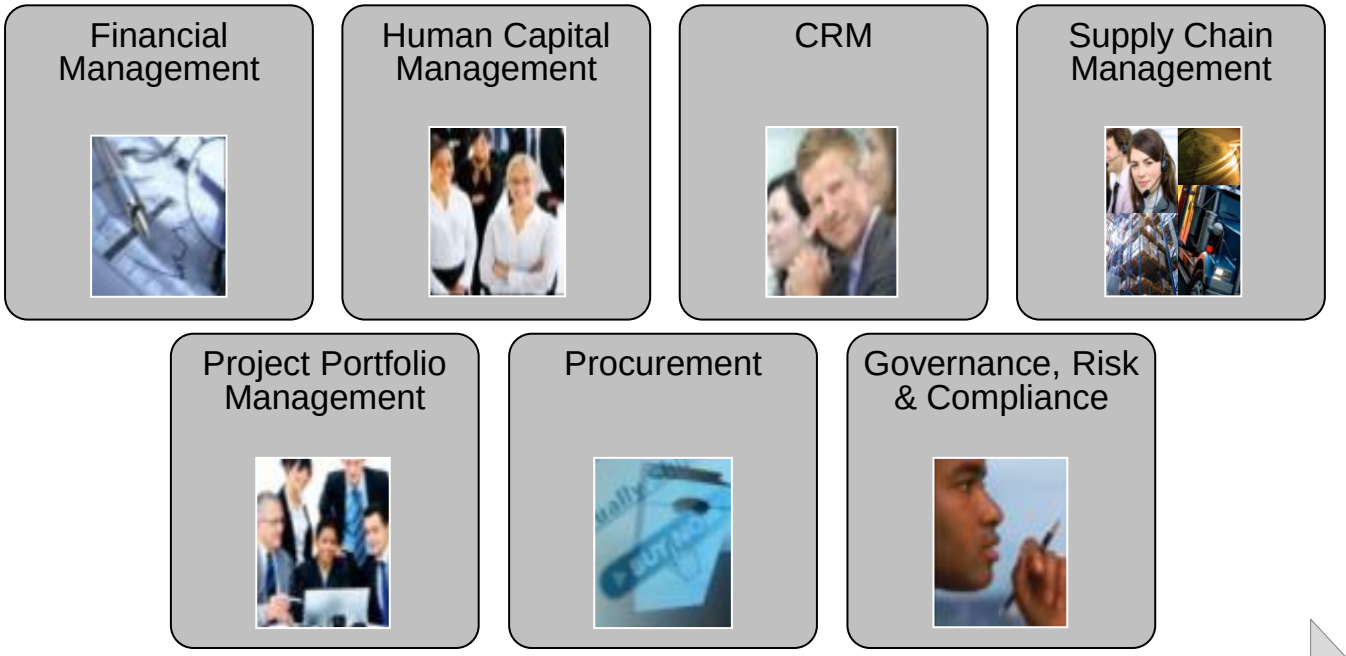
Oracle Fusion Applications Architecture & File System Structure

Lakshmi Reddeppa Noolu
Fusion Applications Support Team

Program Agenda

- Technical Architecture
  - Technical Components
  - Application Topology
  - Adoption Choice
- File System Structure
  - Fusion Applications
    - Applications Tier
  - Identity Management
    - Applications Tier

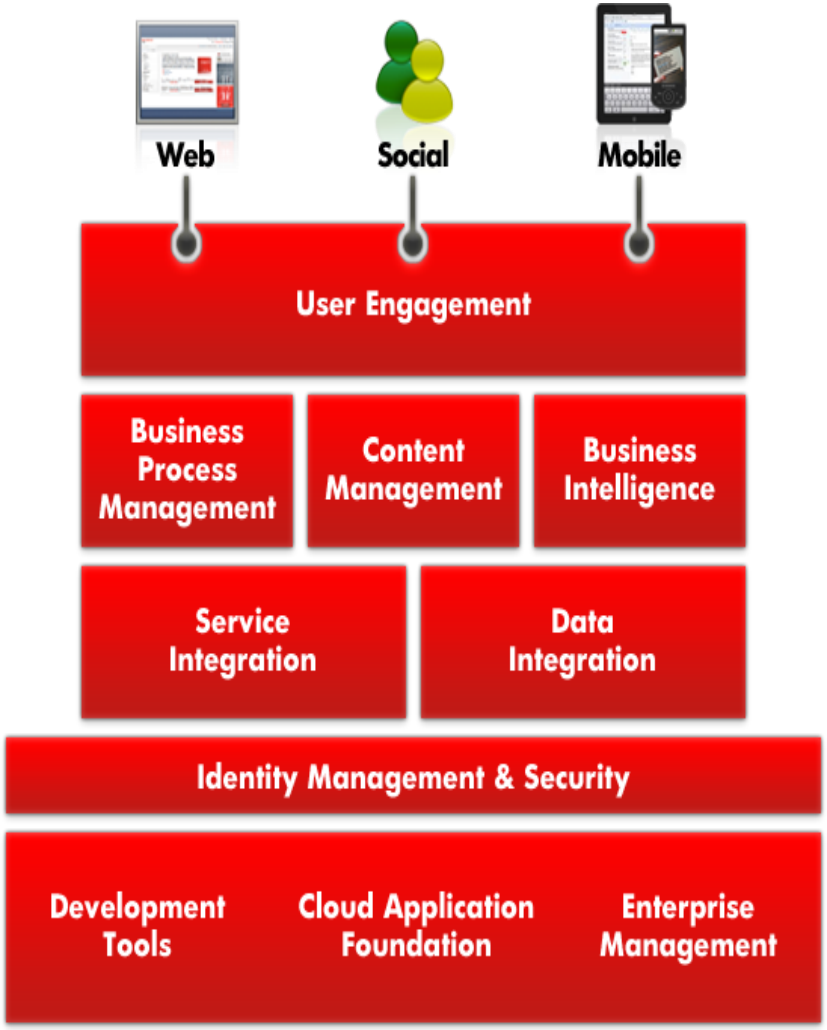
Oracle Fusion Applications Suite



Oracle Fusion Middleware

Foundation for Fusion Applications

- Complete
- Open
- Integrated
- Best-in-class

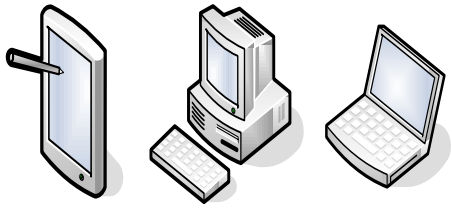


Technical Architecture

Fusion Applications Technical Architecture

3-Tier Logical Architecture

Client-tier



Application-tier
(Middle-tier)

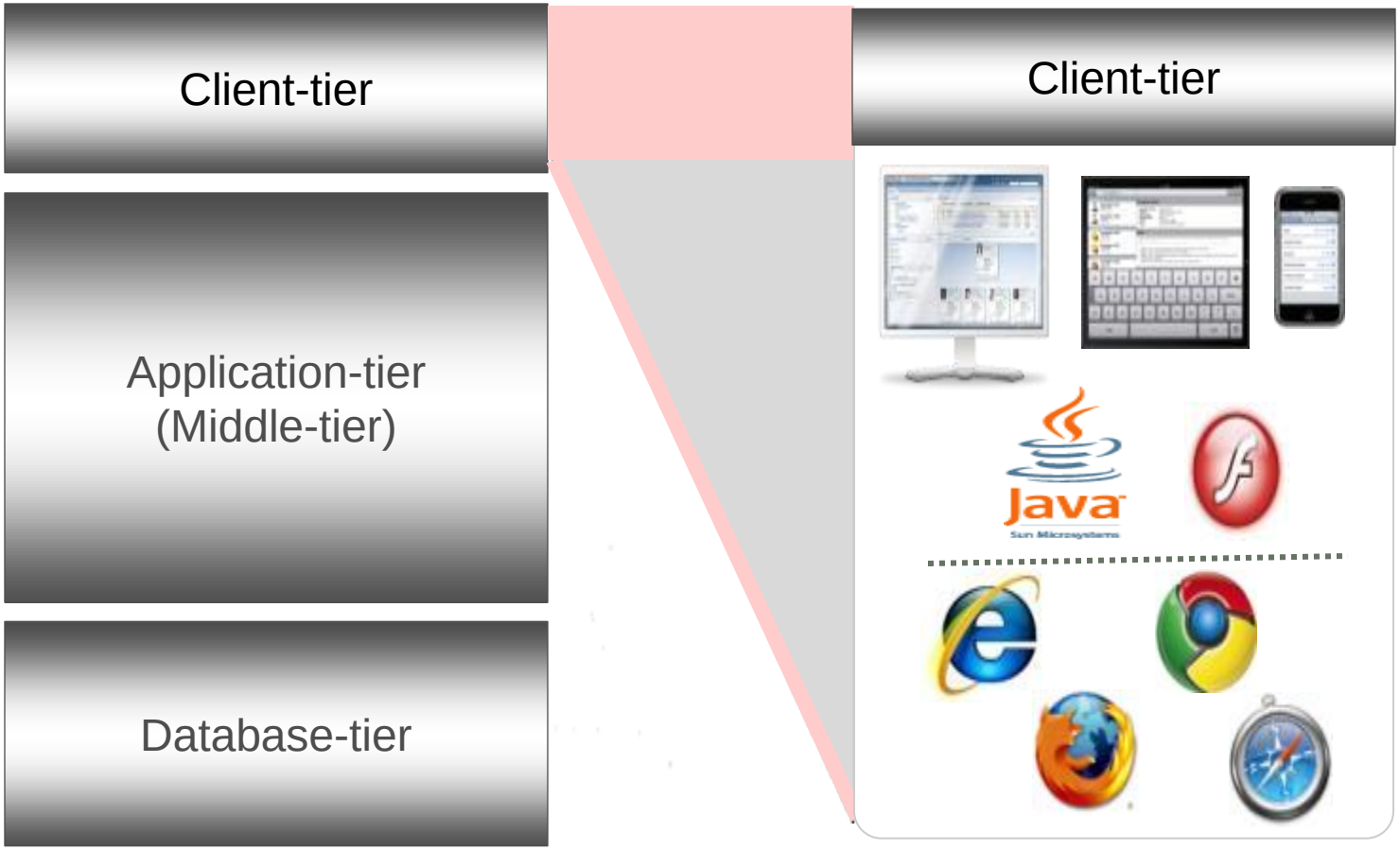
ORACLE FUSION MIDDLEWARE 11g

Database-tier

ORACLE DATABASE 11g

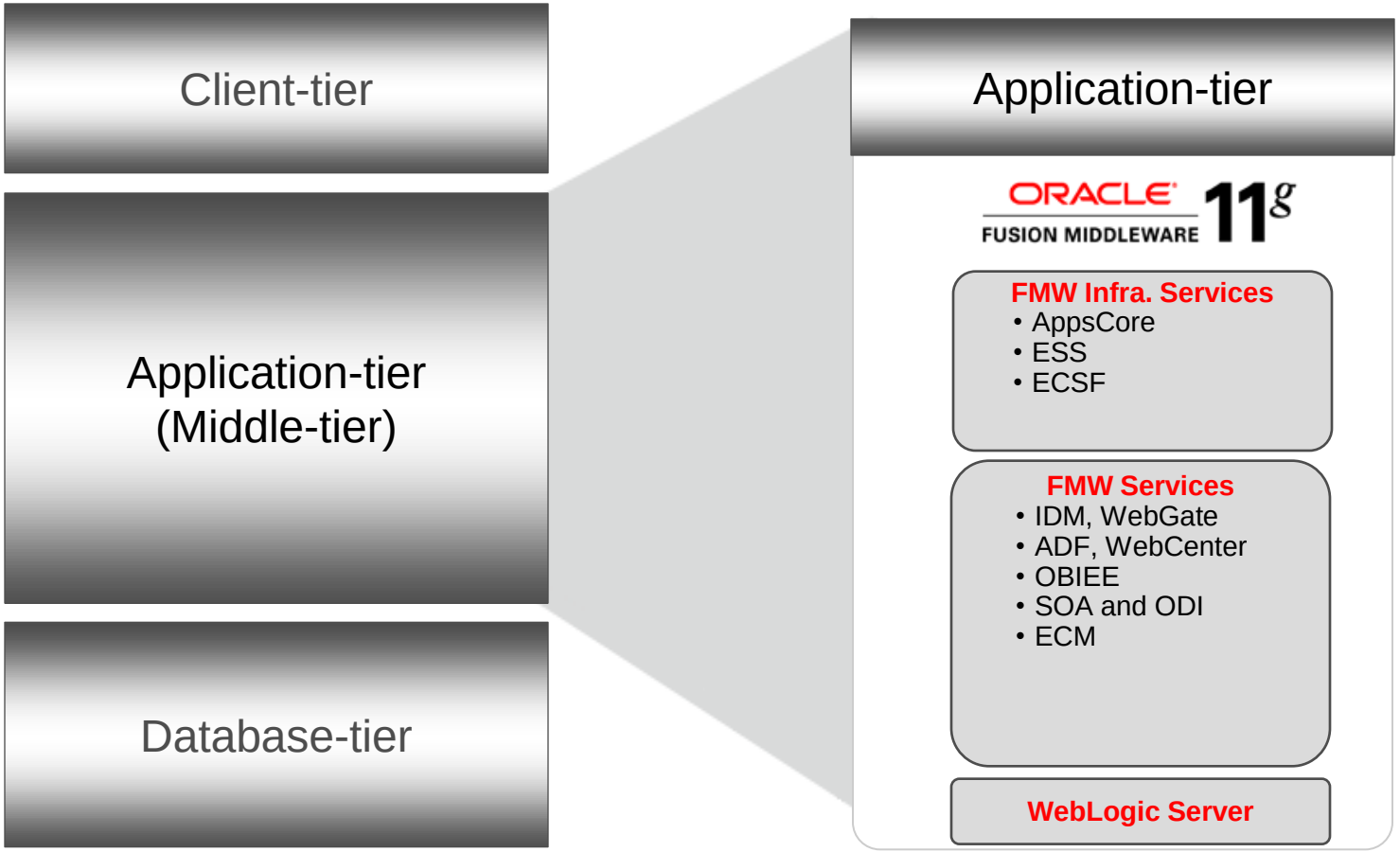
Fusion Applications Technical Architecture

3-Tier Logical Architecture



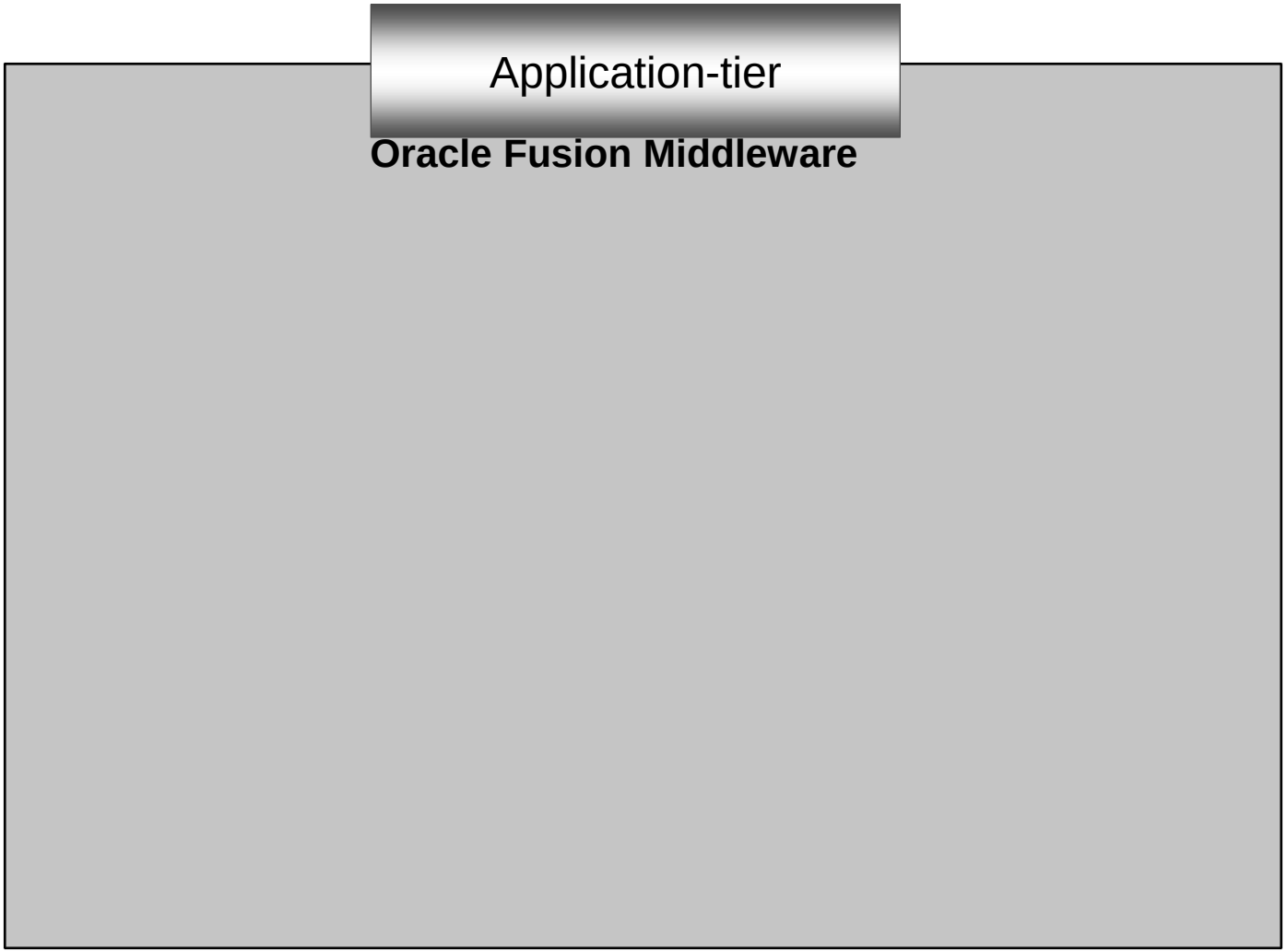
Fusion Applications Technical Architecture

3-Tier Logical Architecture



Fusion Applications Technical Architecture

Oracle Fusion Middleware Infrastructure - Overview



Fusion Applications Technical Architecture

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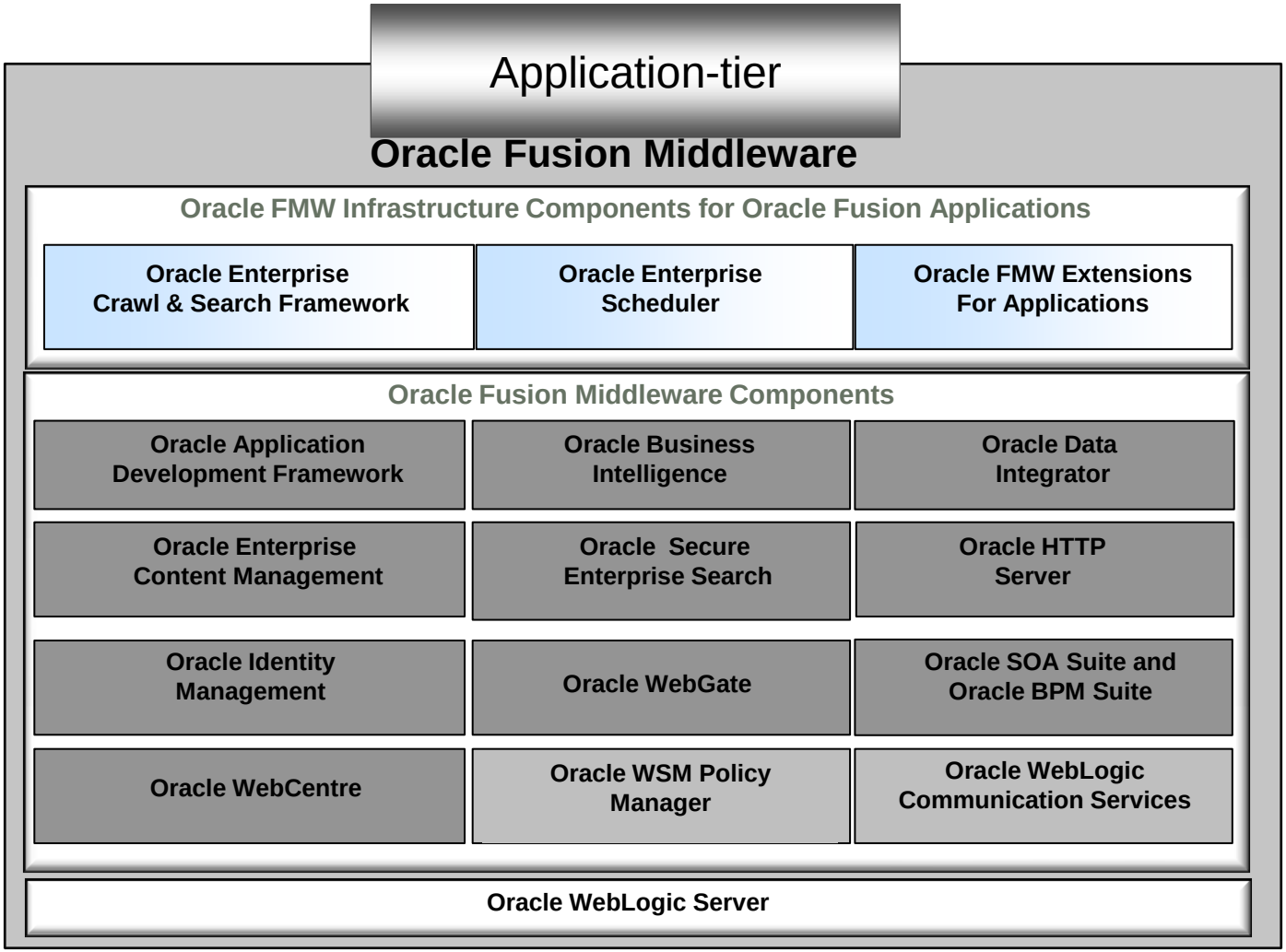
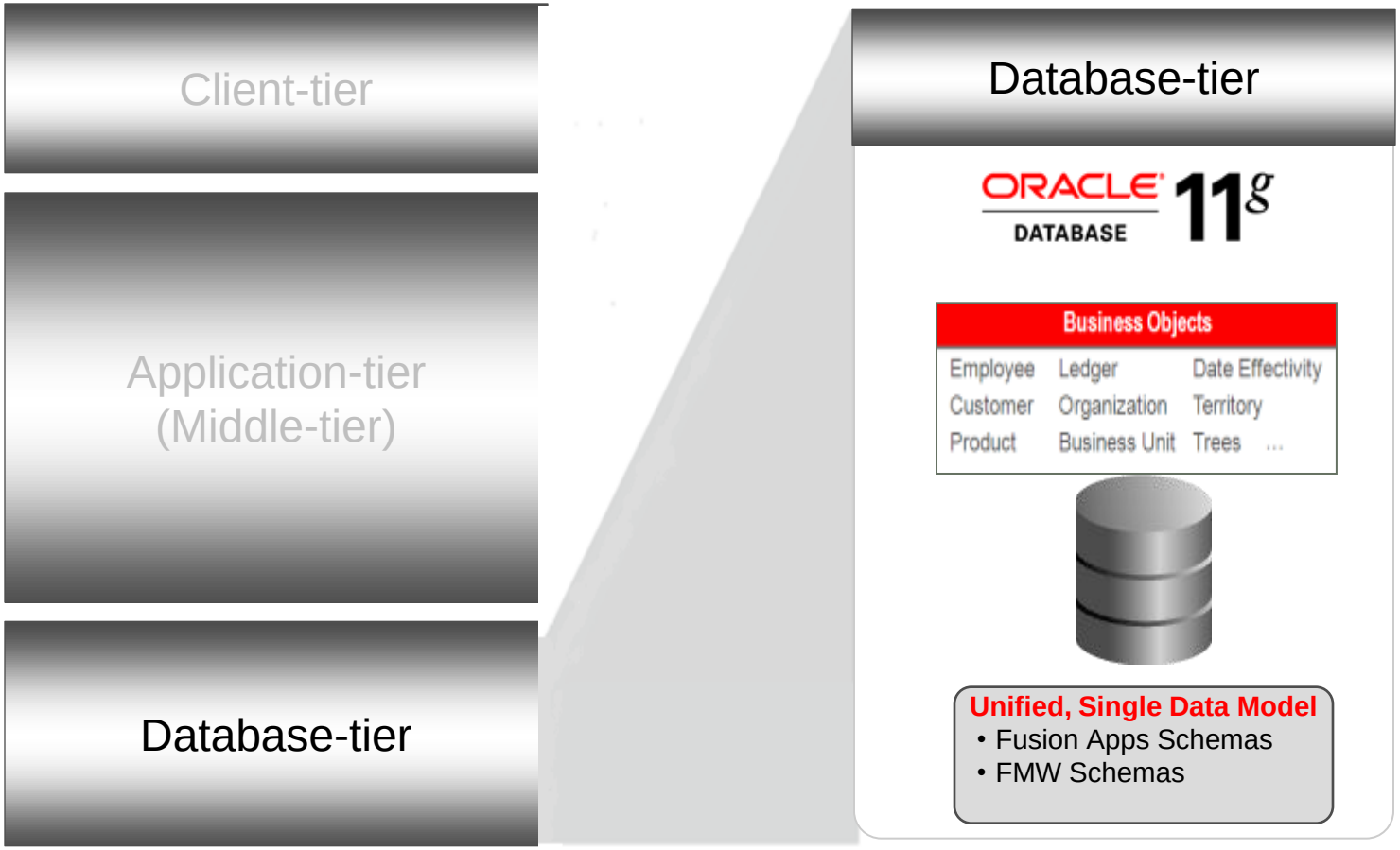


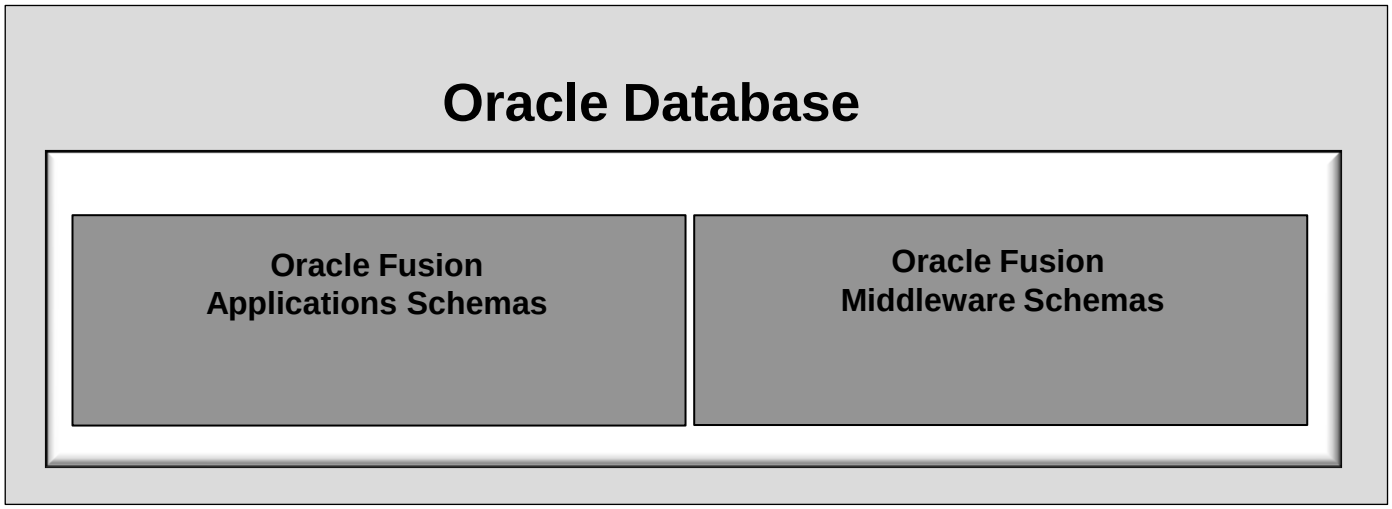
Oracle Fusion Applications Technology

3-Tier Logical Architecture



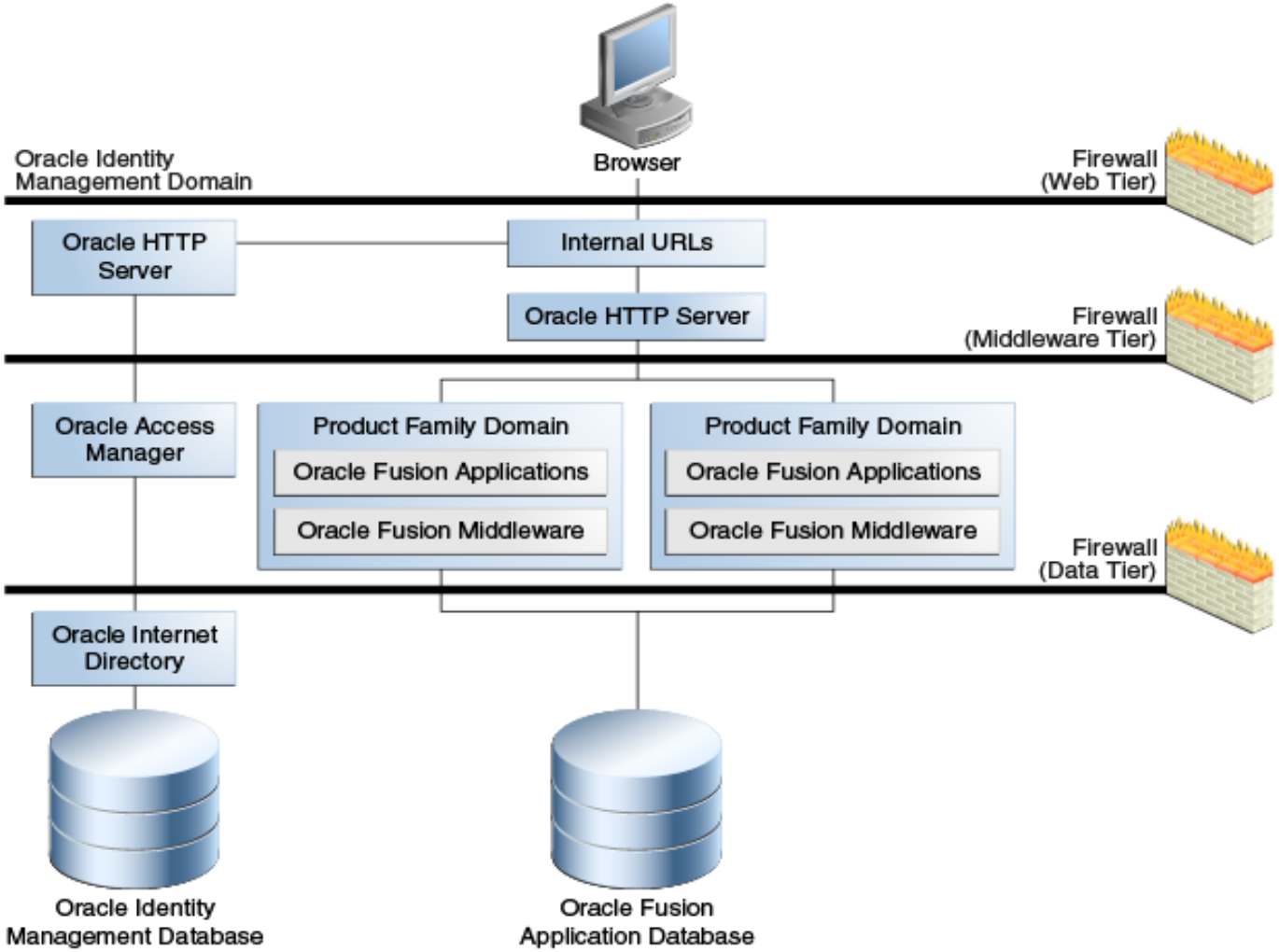
Oracle Fusion Applications Architecture

Oracle Database - Overview



Oracle Fusion Applications Architecture

Overview



Applications Topology

Oracle Fusion Applications Topology

Overview

- Each topology is a collection of multiple product families
  - Common, FIN, PRJ, PRC, CRM, HCM, SCM, BI
- Each product family
  - Is comprised of one or more applications and FMW products
  - Gets its own WebLogic domain
    - Common domain, FIN domain, PRC domain, HCM domain etc....
- Product families have dependencies
  - i.e. Currencies and currency conversion handled by Financials
  - Employees handled by HCM

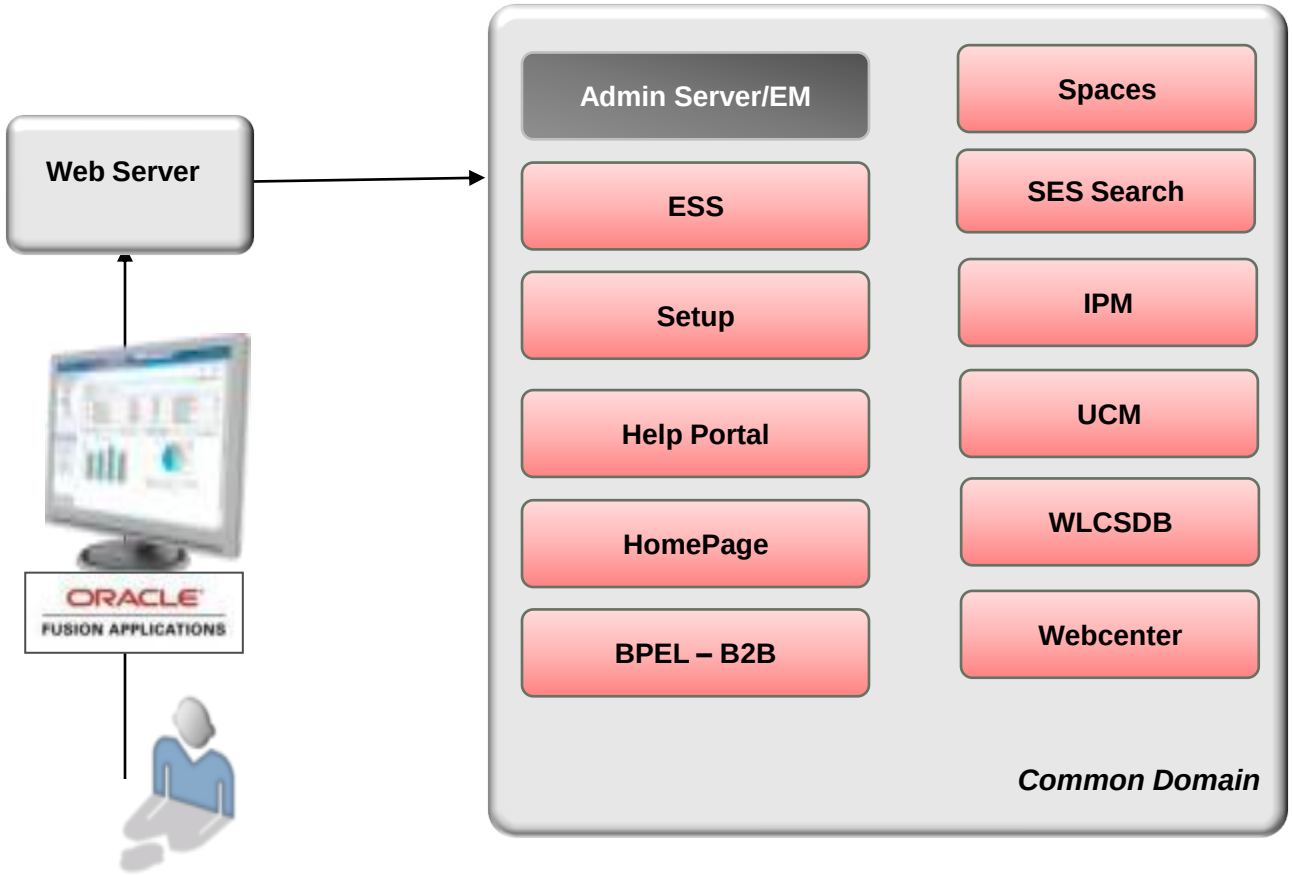
Oracle Fusion Applications Topology

Domain Guidelines

- Each topology has Common Domain, BI Domain
- Common Domain
  - All “shared” application and FMW products are deployed in this domain
    - Enterprise Scheduler Service (ESS) Administration UI
    - FndSetup
    - WebCenter products
    - Functional Setup

Continue.....

Common Domain Topology

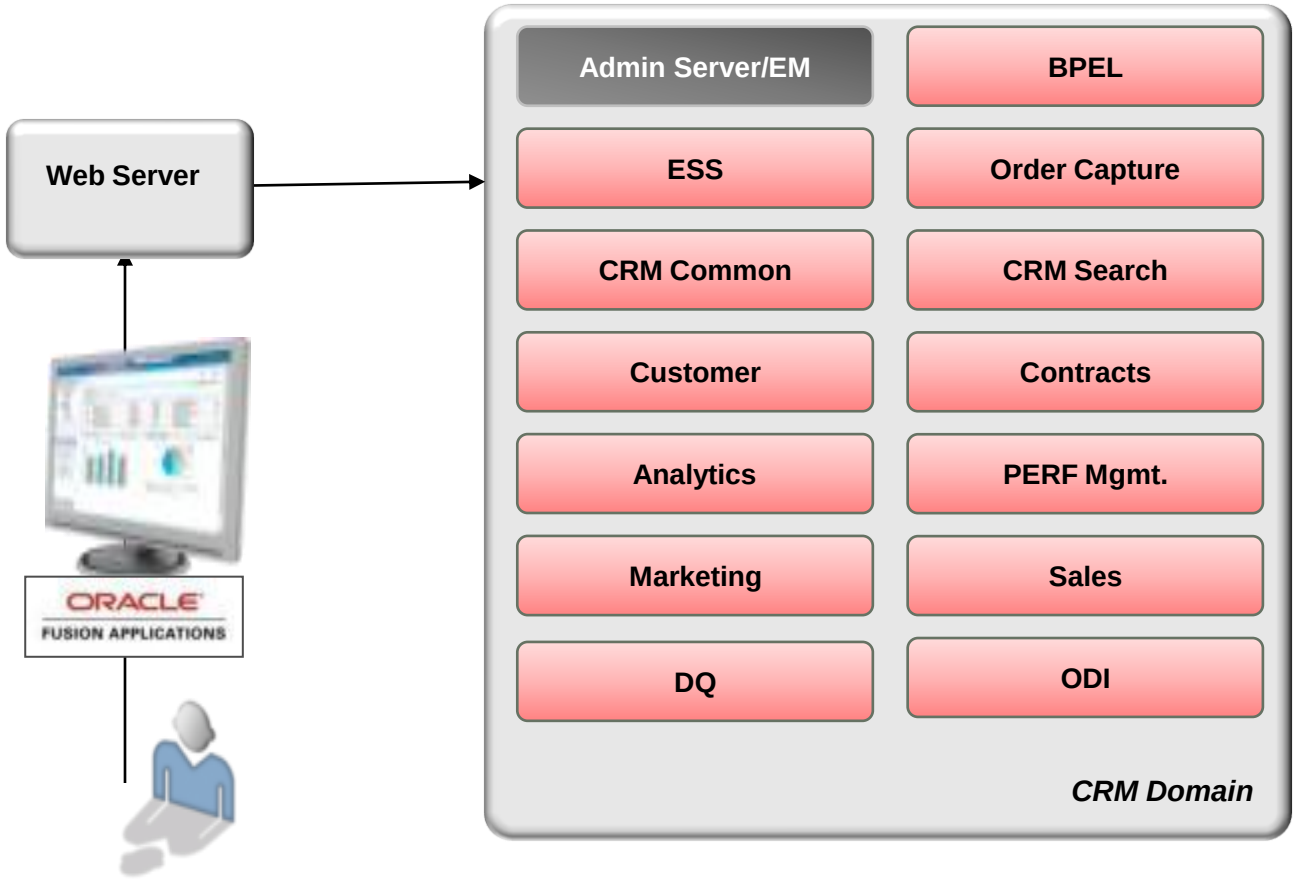


Oracle Fusion Applications Topology

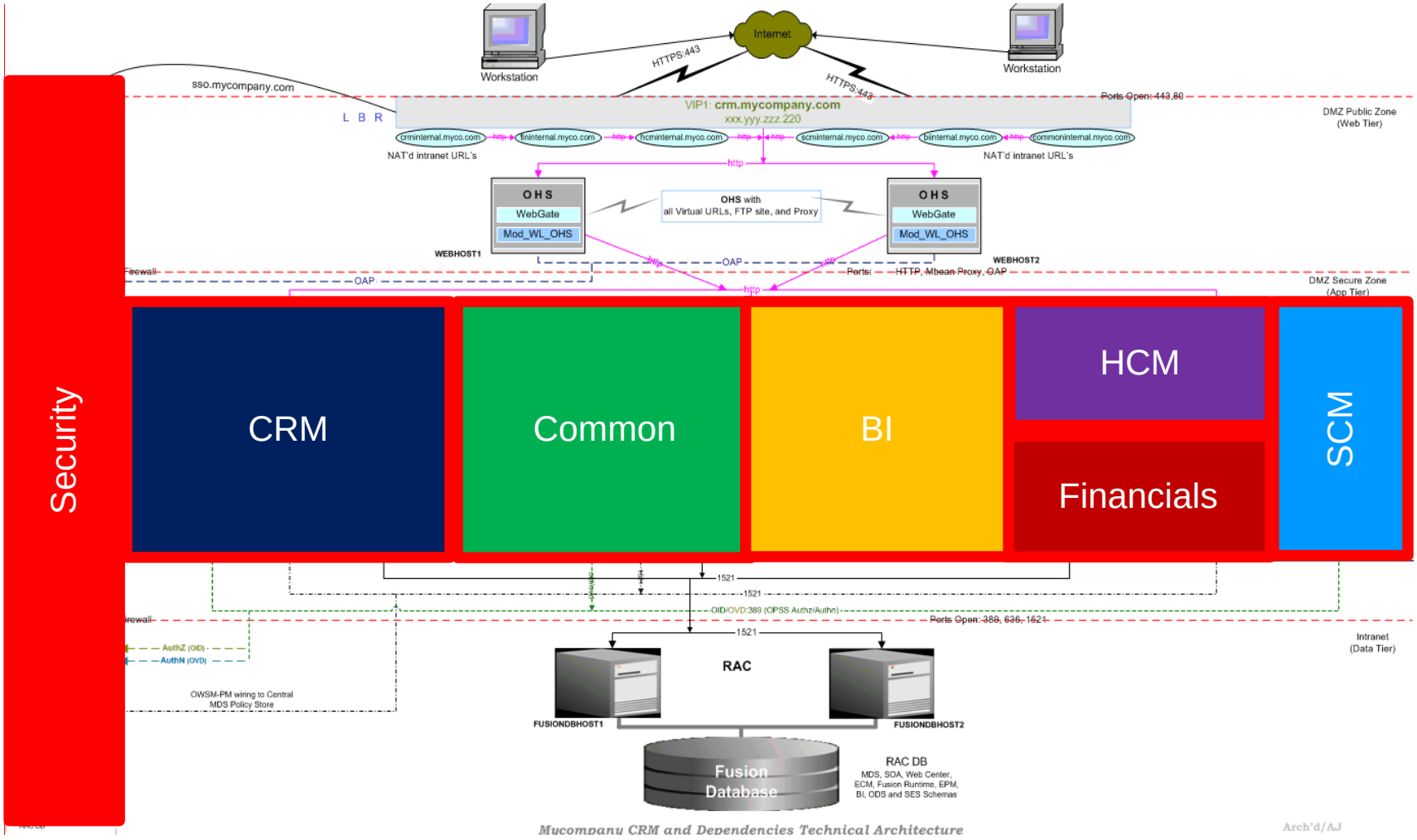
Technology stack guidelines

- Components deployed in every domain
  - SOA
  - ESS (Enterprise Scheduler Service)
- Components selectively deployed
  - ODI (CRM, SCM, HCM)
  - Analytics (FIN, CRM, HCM)
  - ECSF (FIN,CRM,HCM)

CRM Domain Topology



Fusion CRM Topology – Putting it all together

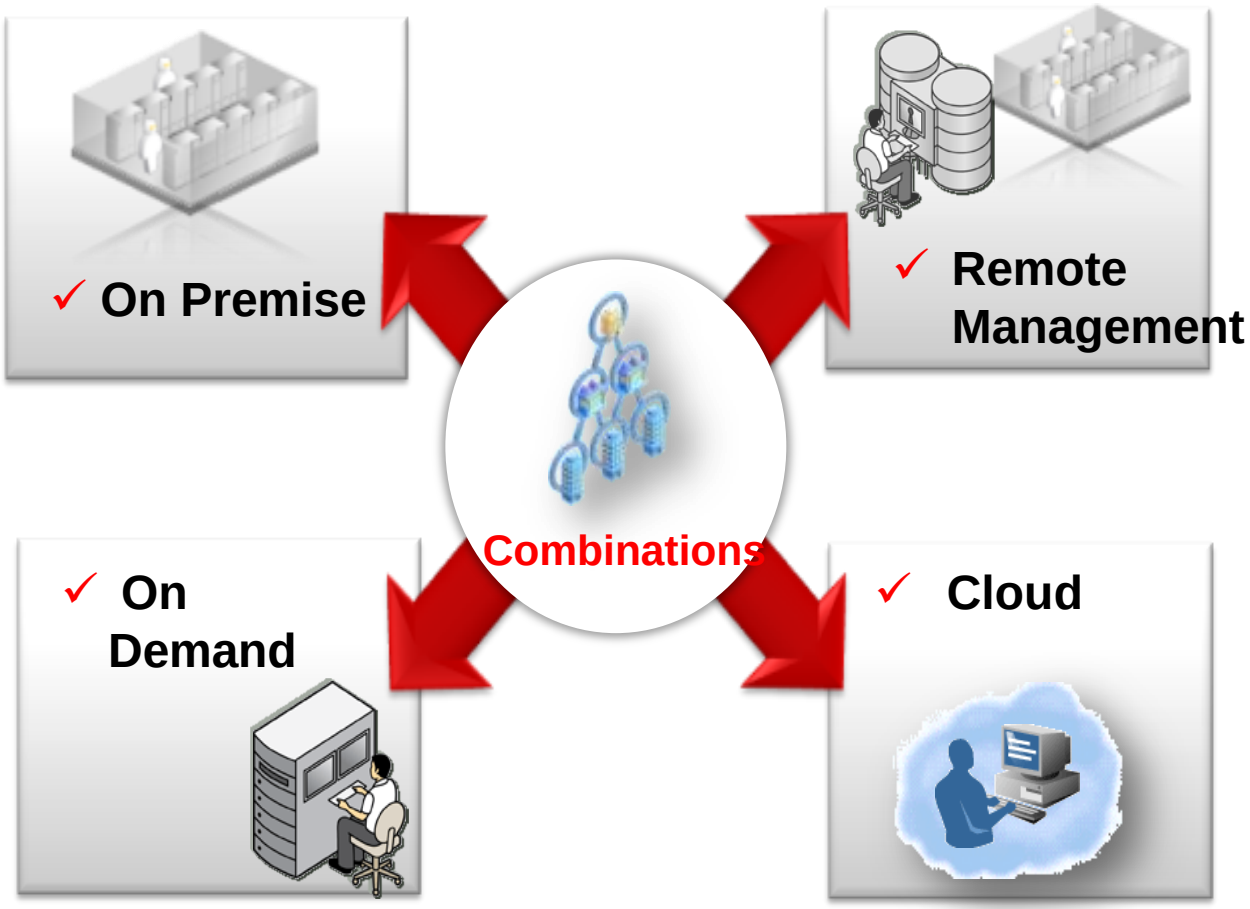


Adoption Choice

Freely Choose Where to Run Applications

Freely Choose Where to Run Applications

Application deployment alternatives



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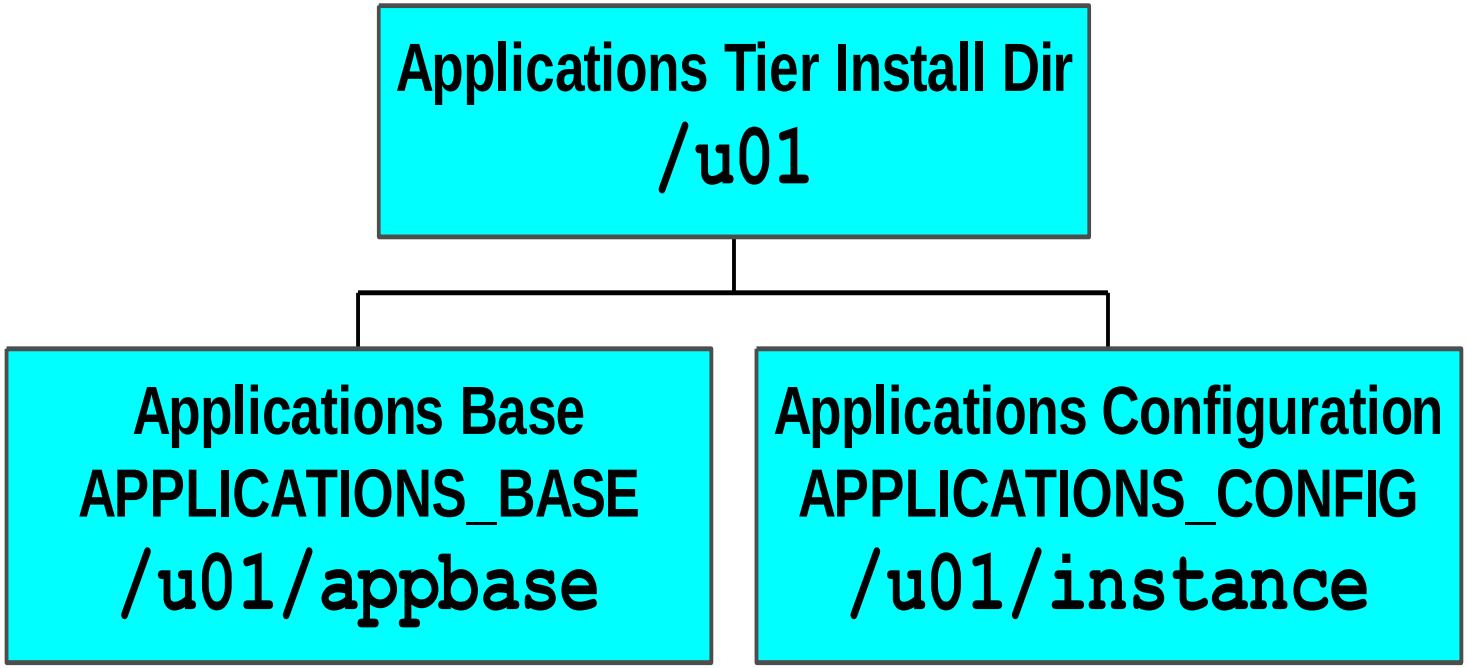
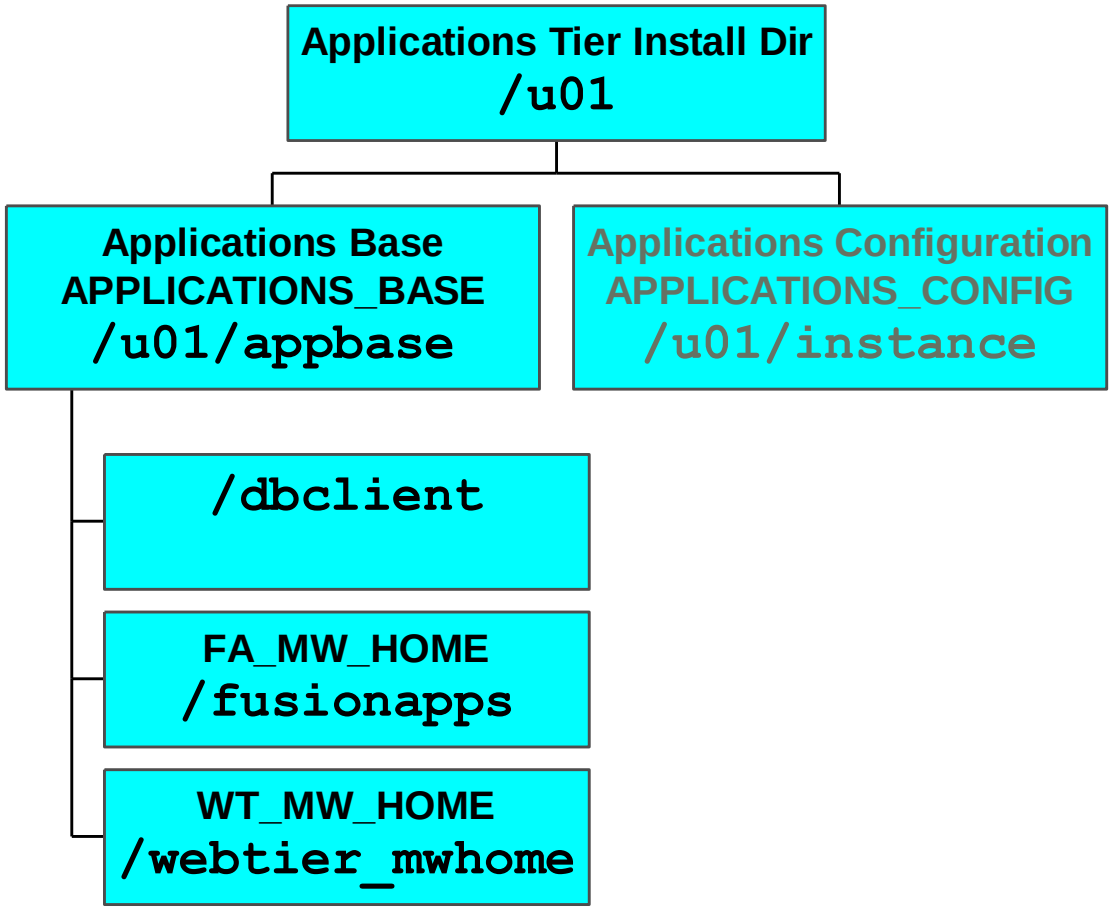
Oracle Fusion Applications

Applications Tier



Oracle Fusion Applications

Applications Tier – Applications Base



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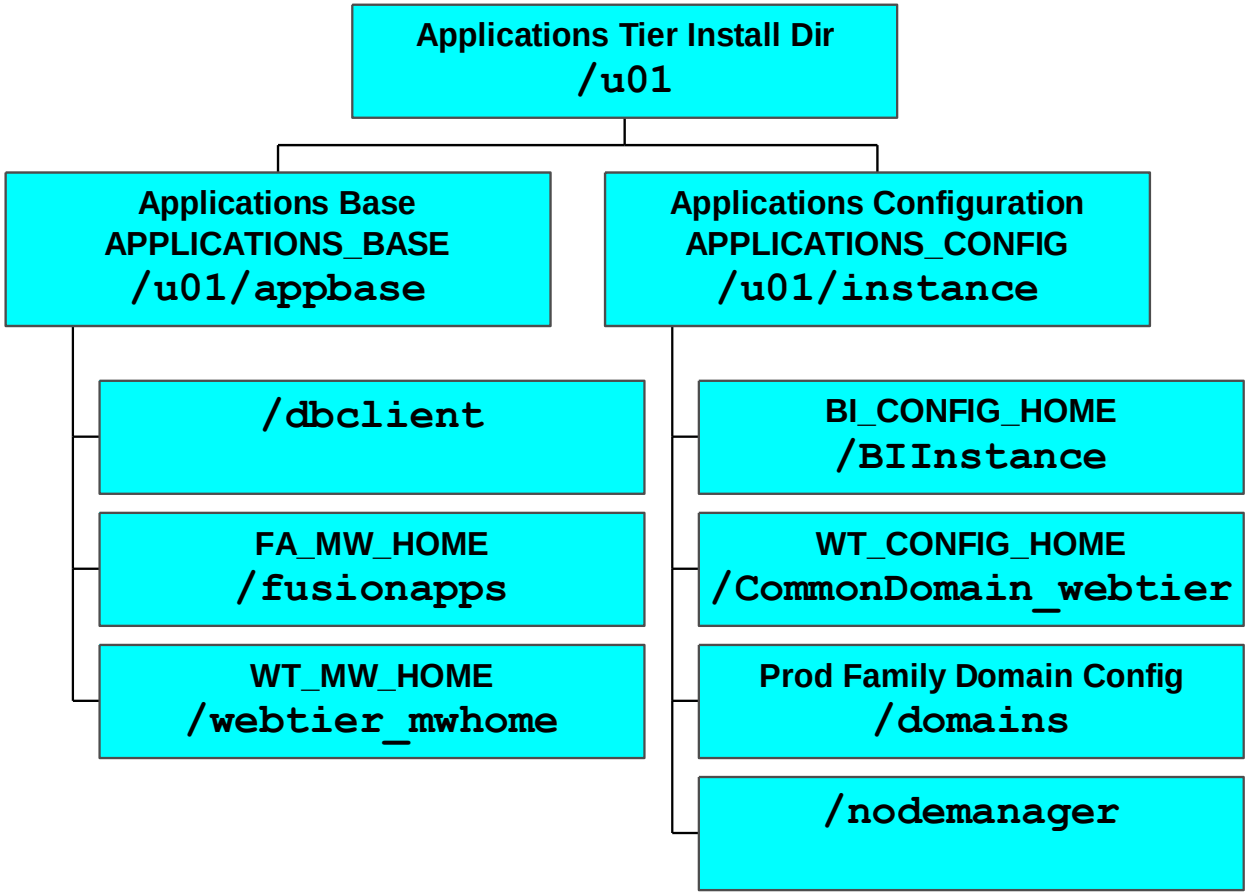

Oracle Fusion Applications

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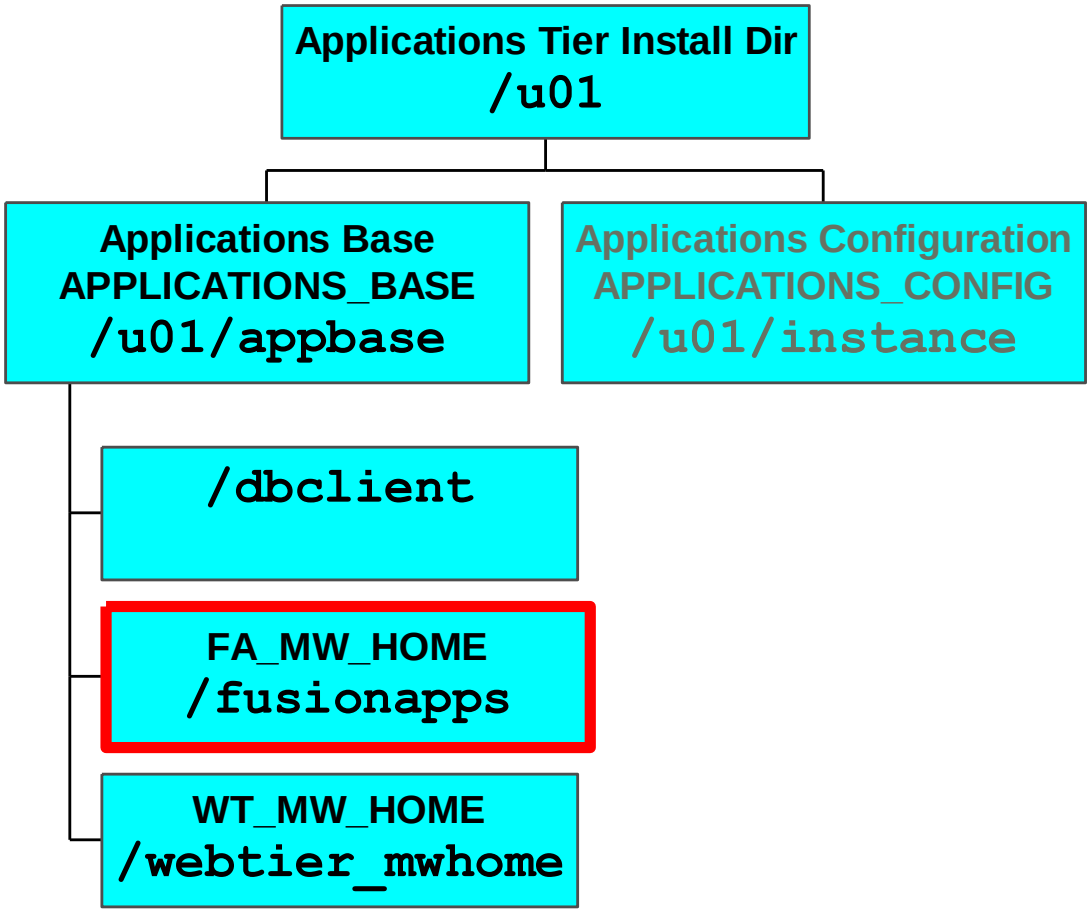

Oracle Fusion Applications

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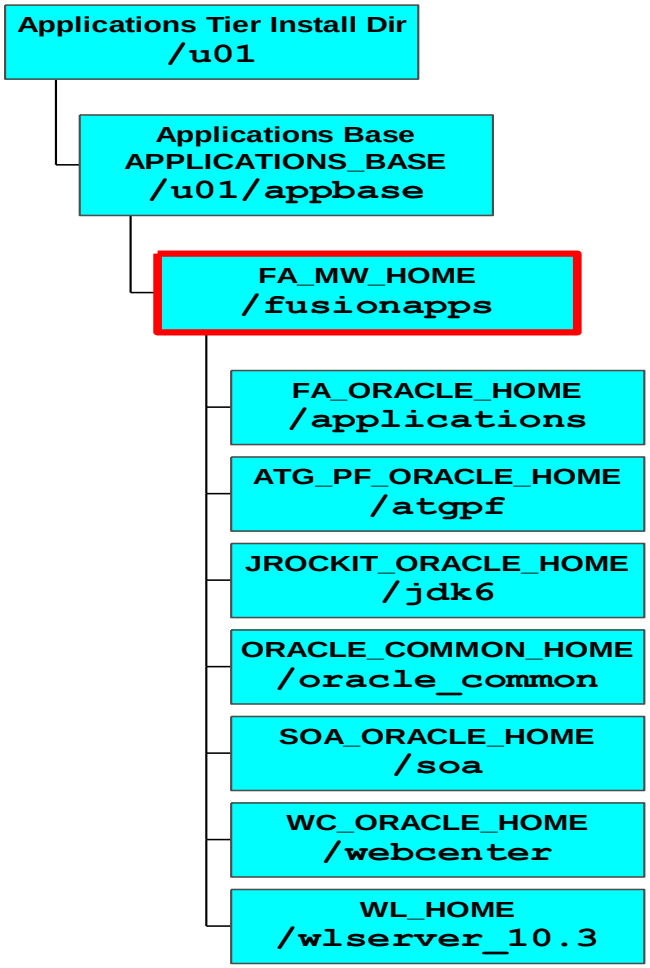

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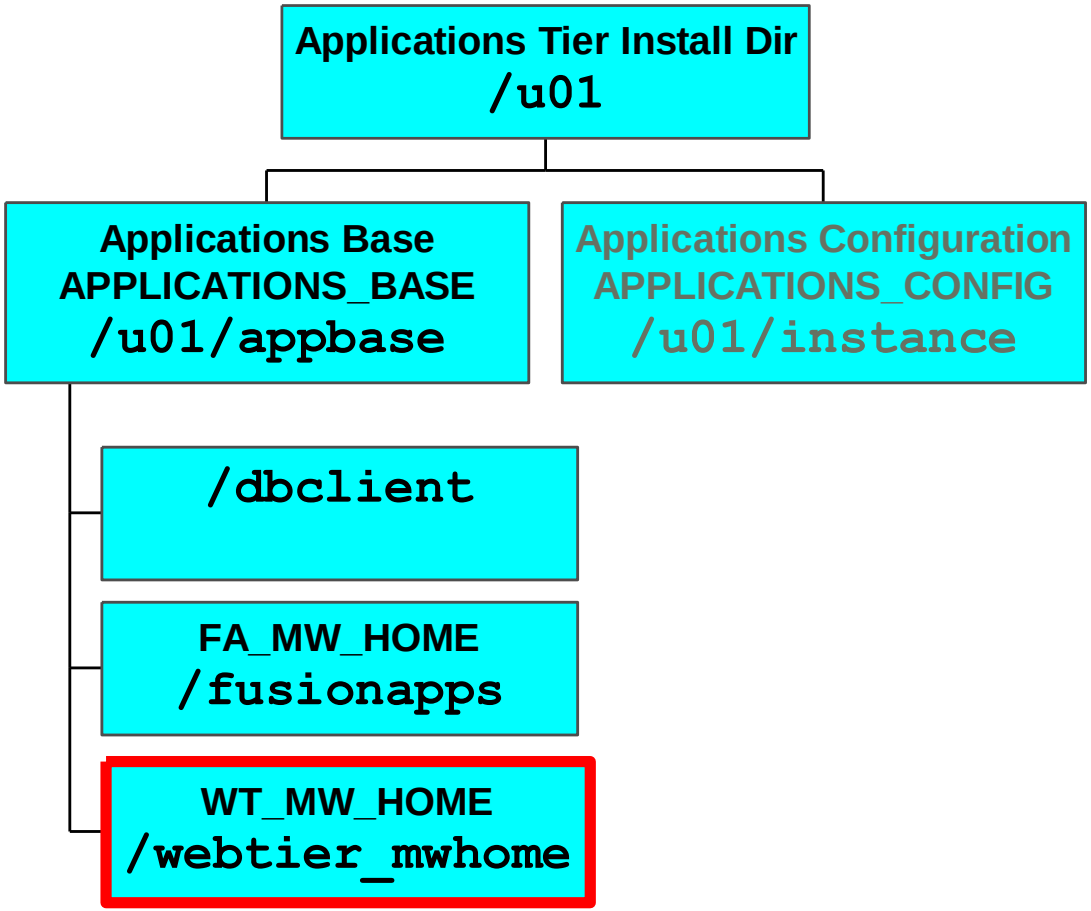

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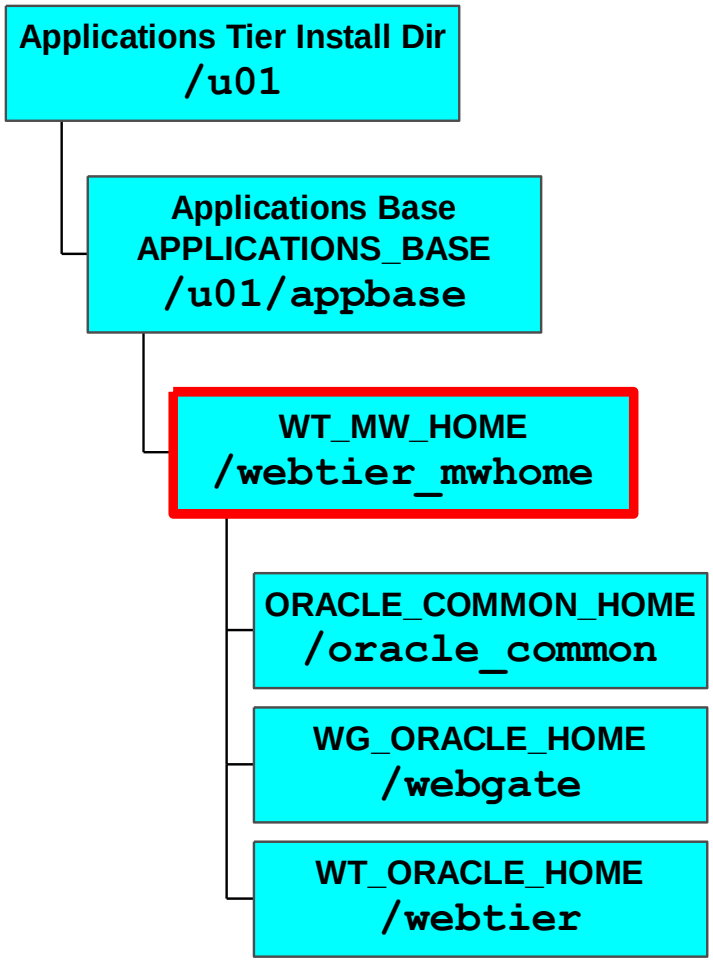
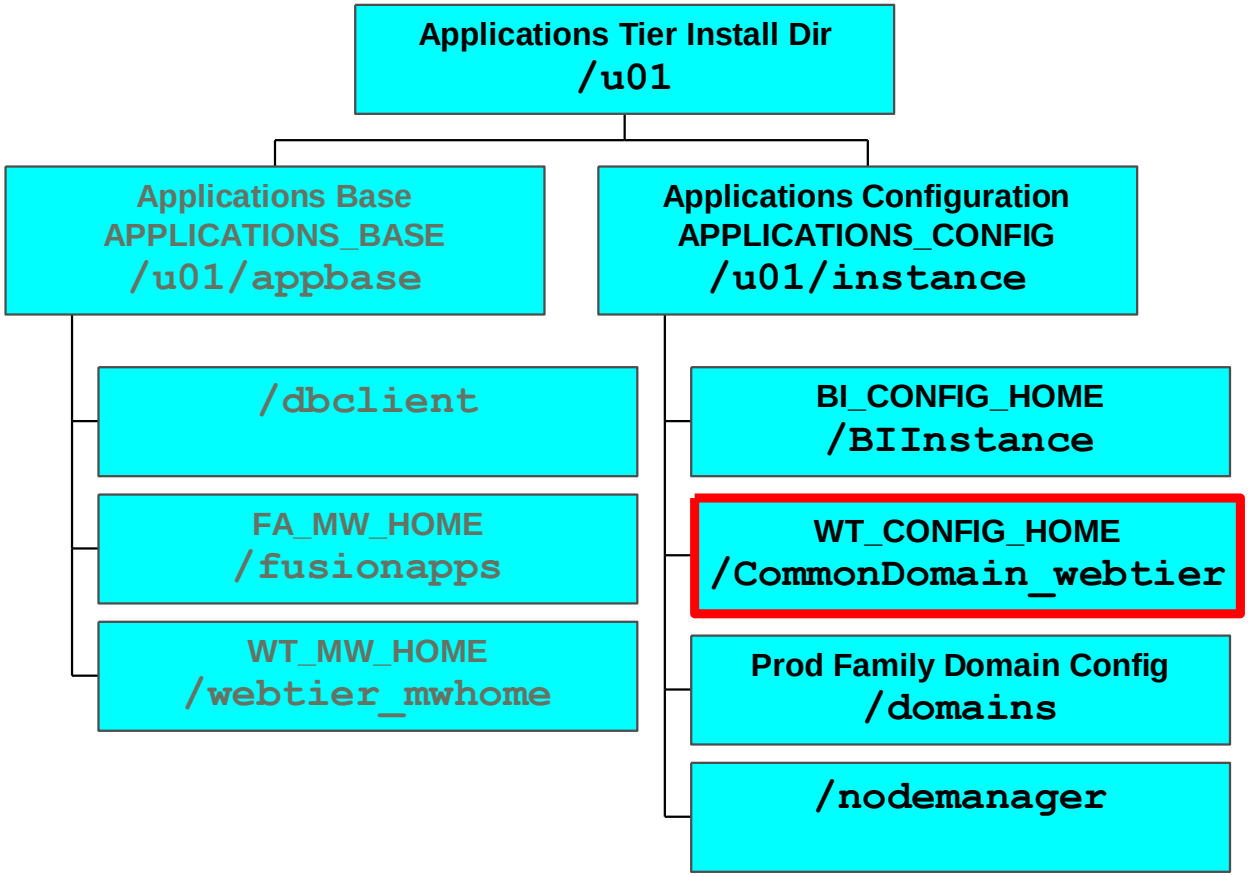


Oracle Fusion Applications

Applications Tier – Applications Configuration



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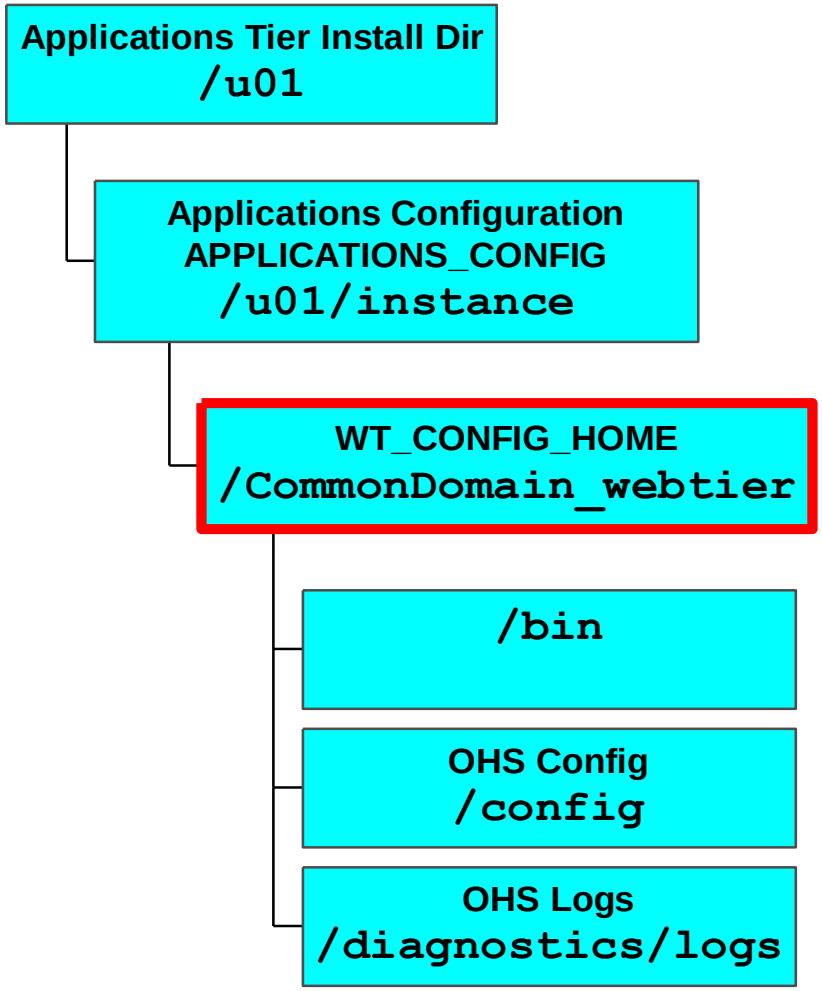

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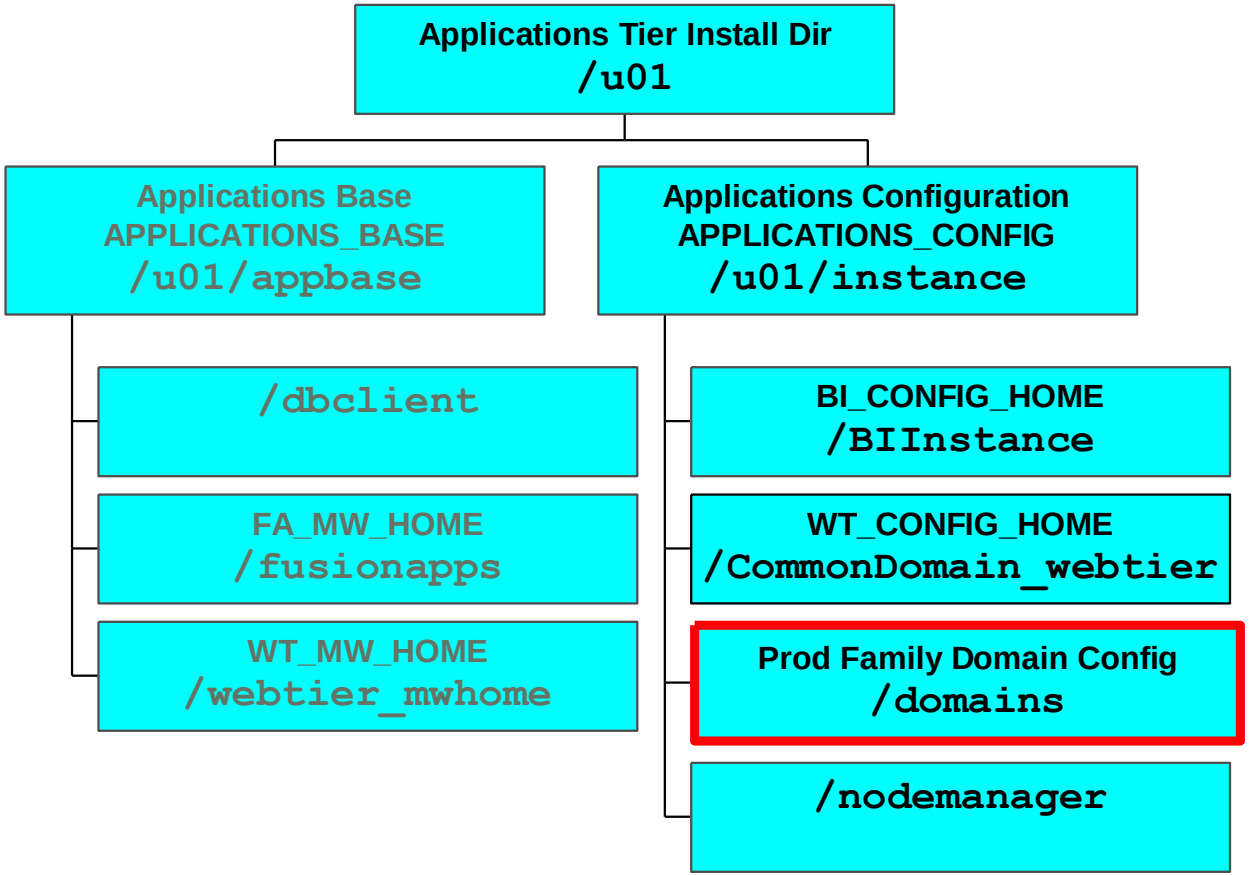

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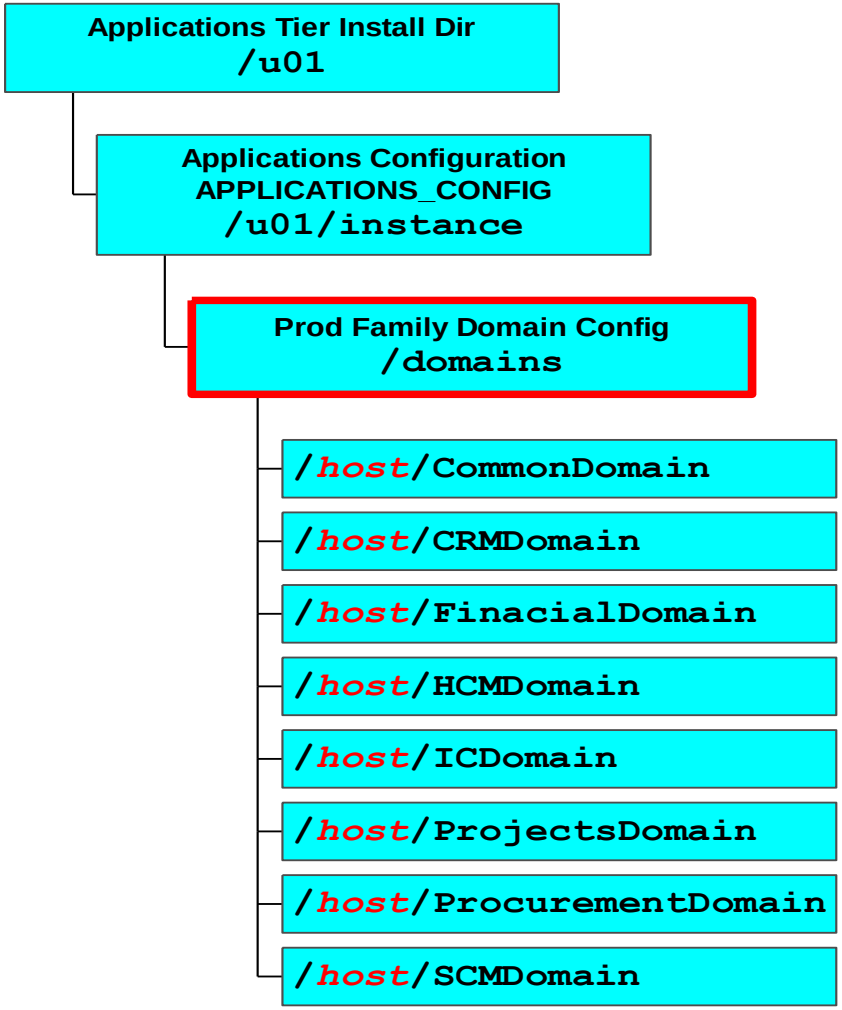

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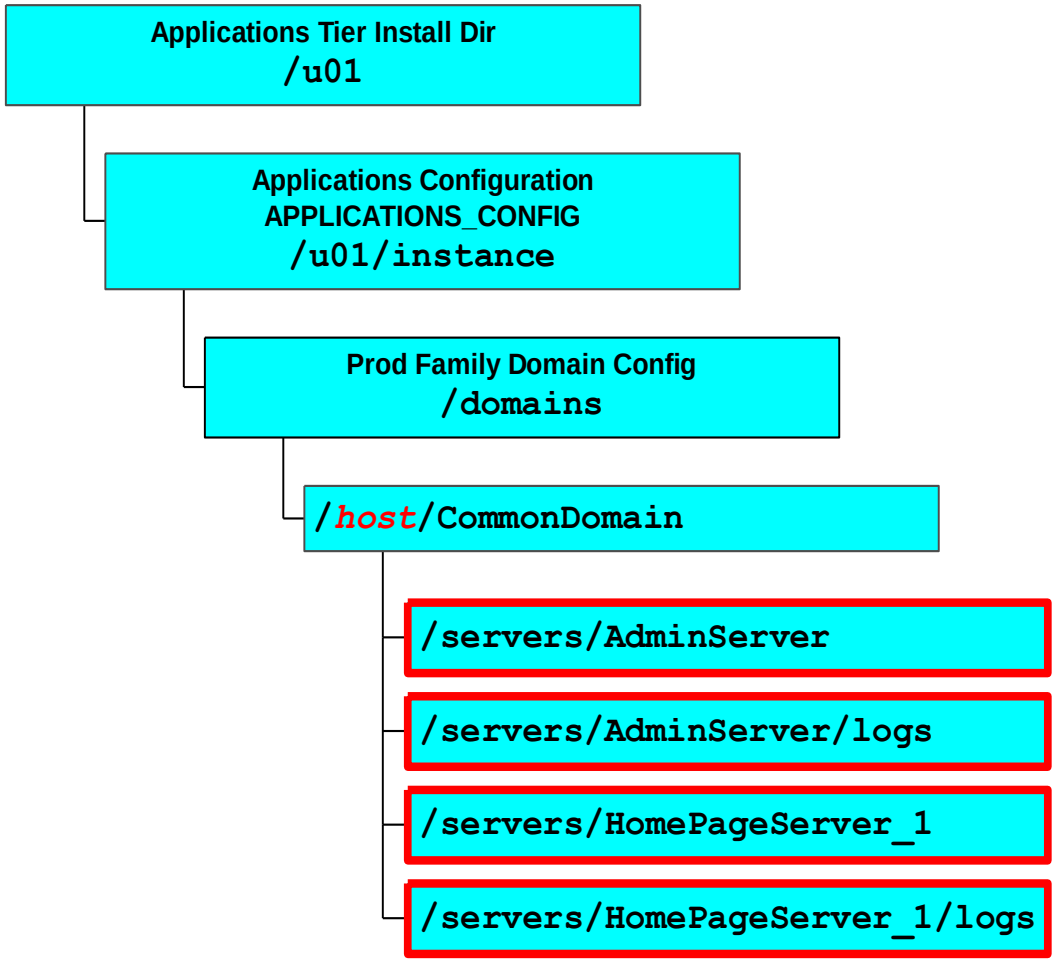

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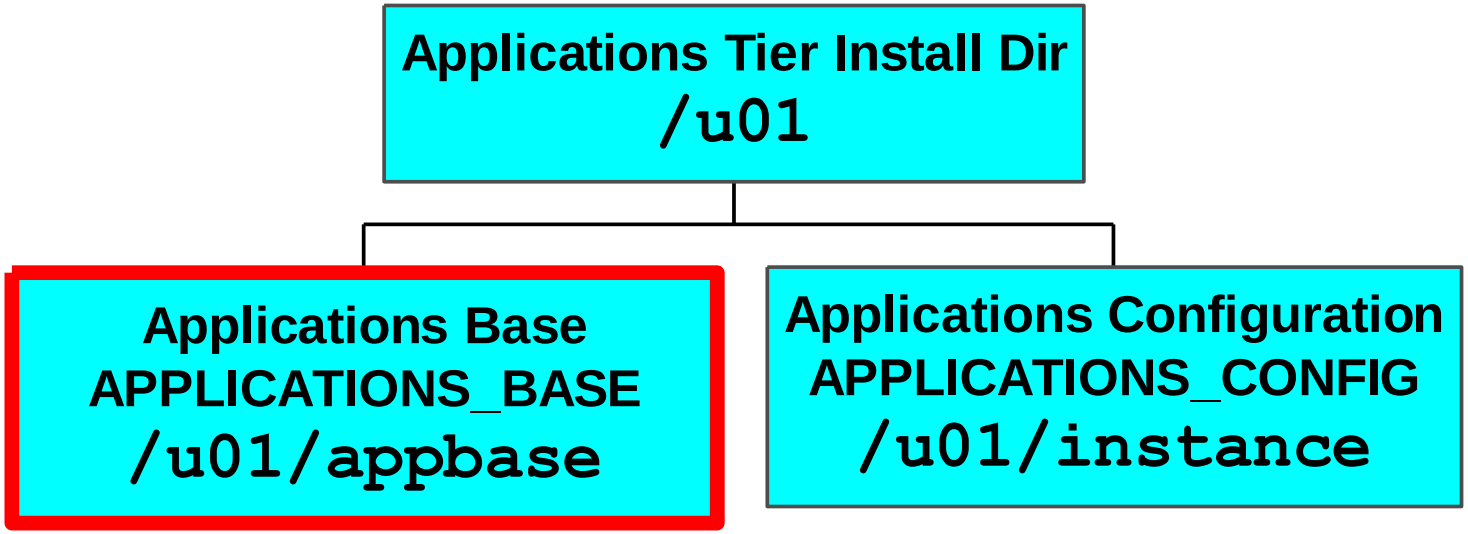

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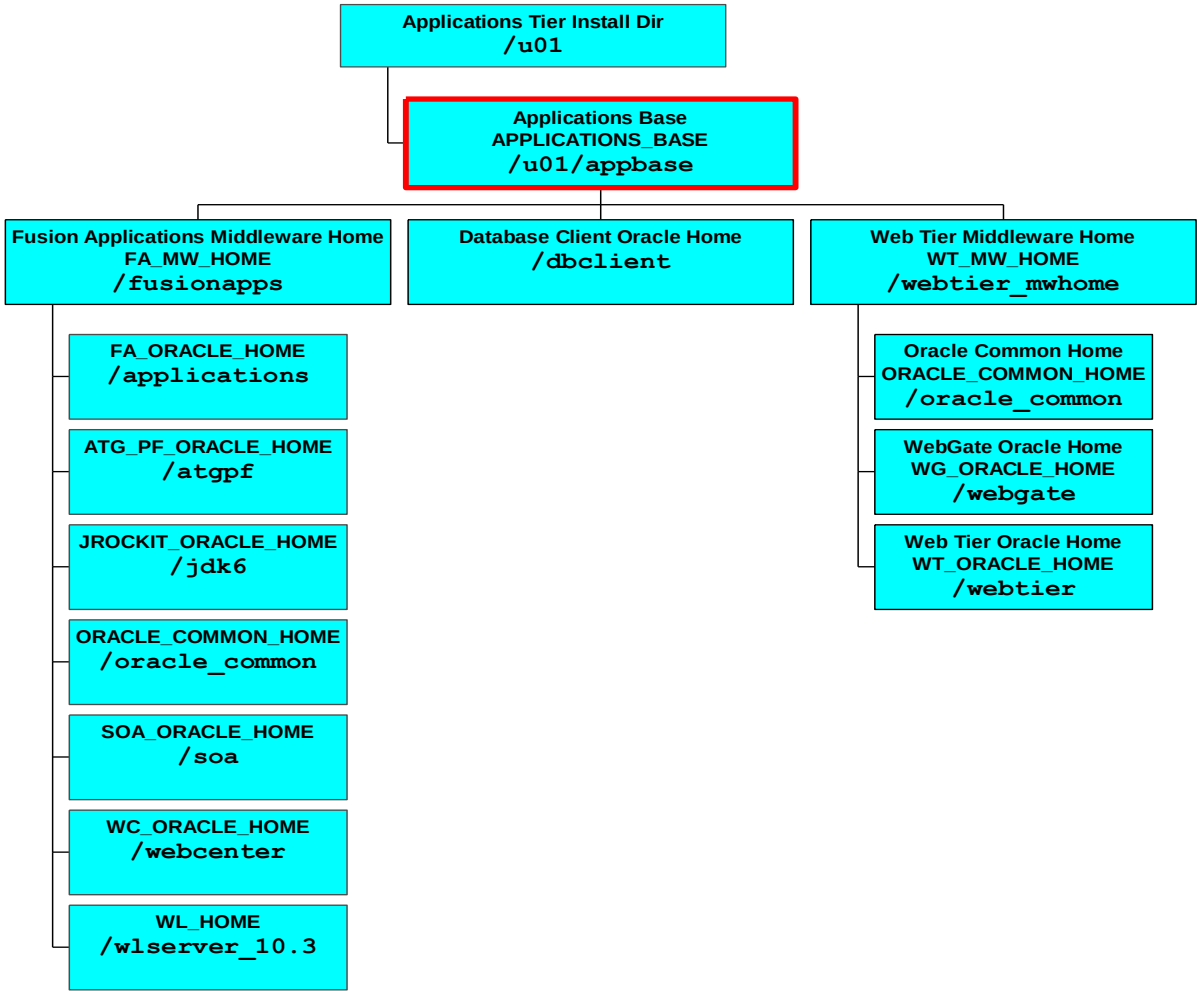

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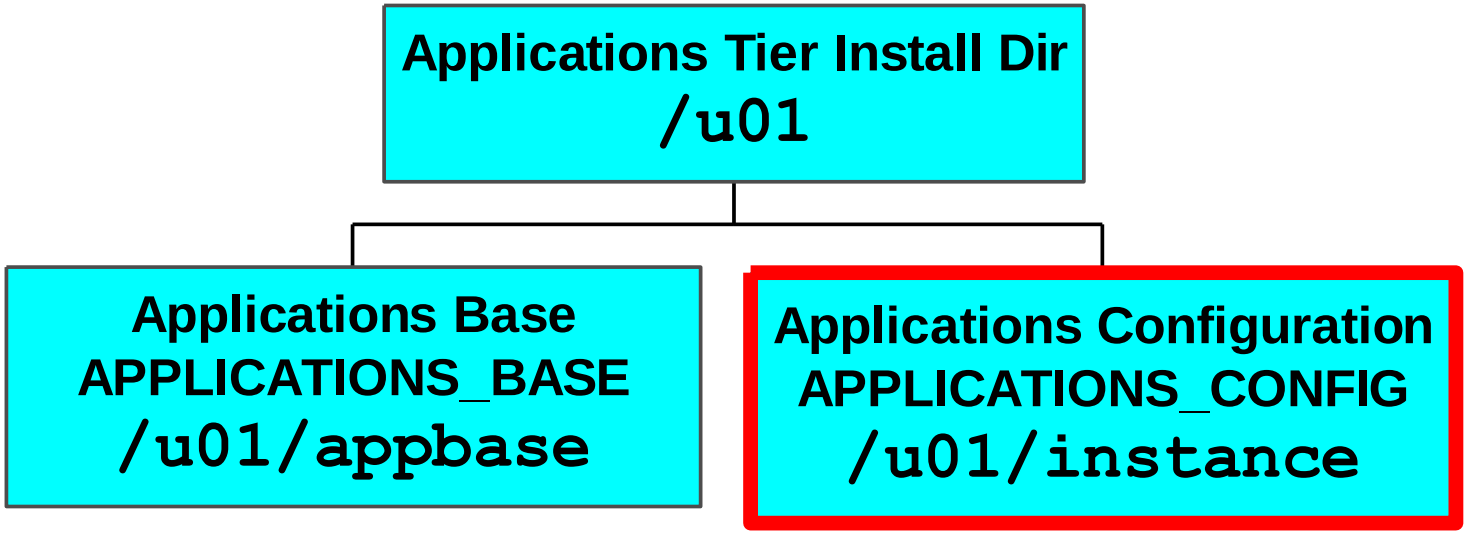

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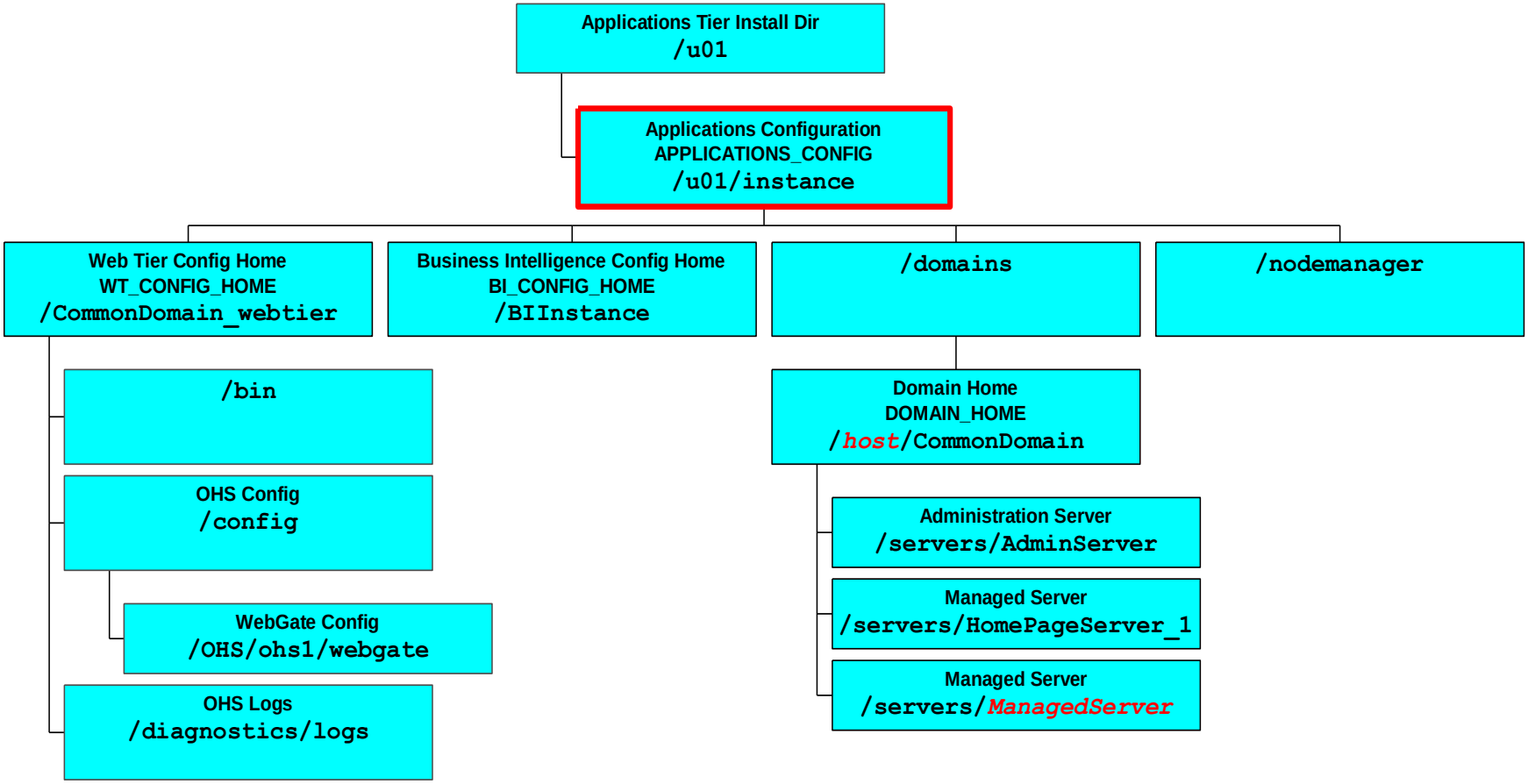

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    - Applications Tier

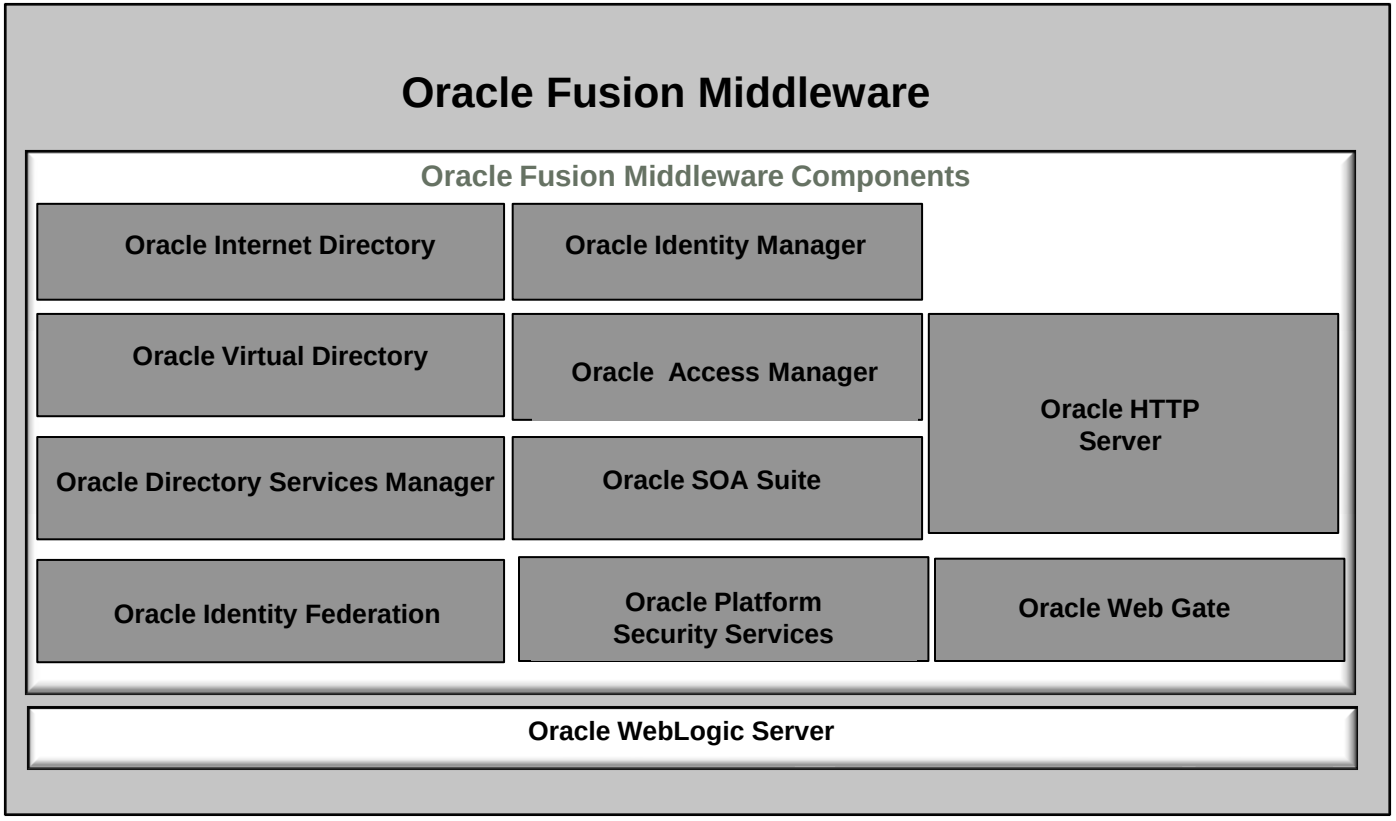
Oracle Identity Management

Overview

- Pre-requisite to Fusion Applications
- Installed and Configured separately

Oracle Identity Management

Applications Tier



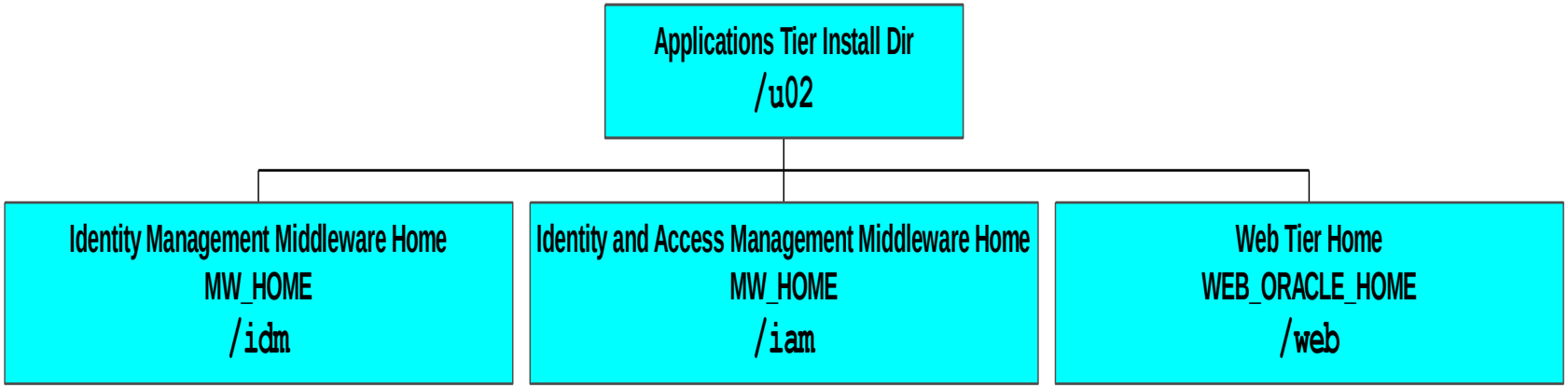
Oracle Identity Management

WebLogic Domains

- Single Domain (e.g. IDMDomain)
- Multi – Domain (e.g. OIDDomain, OIMDomain)
- User – entered unlike Fusion Applications

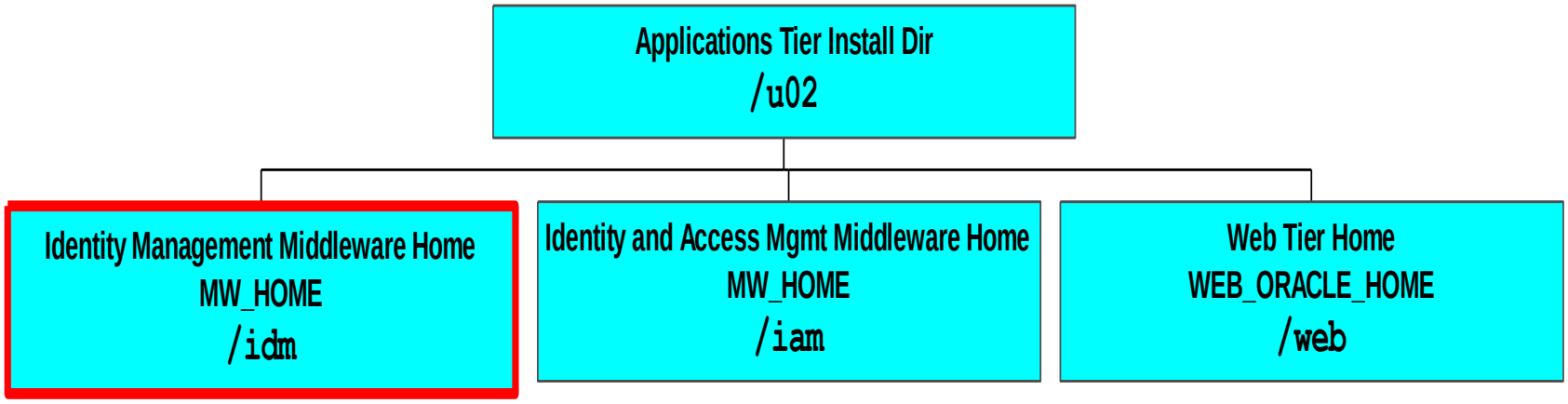
Oracle Identity Management

Applications Tier



Oracle Identity Management

Applications Tier



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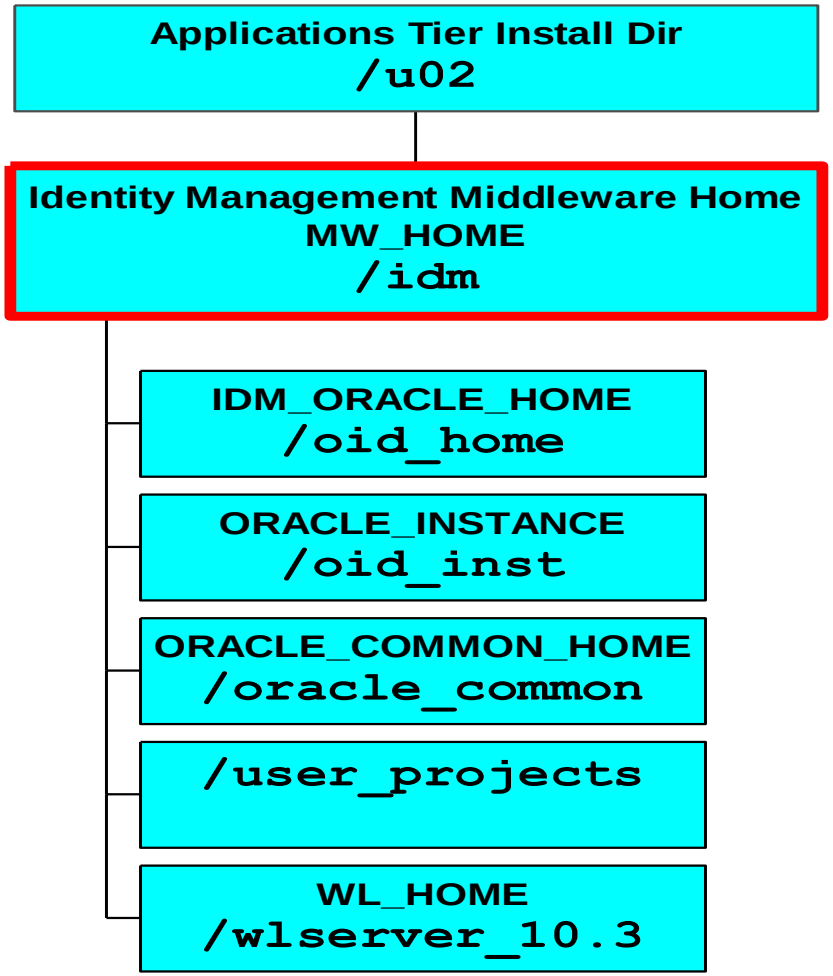

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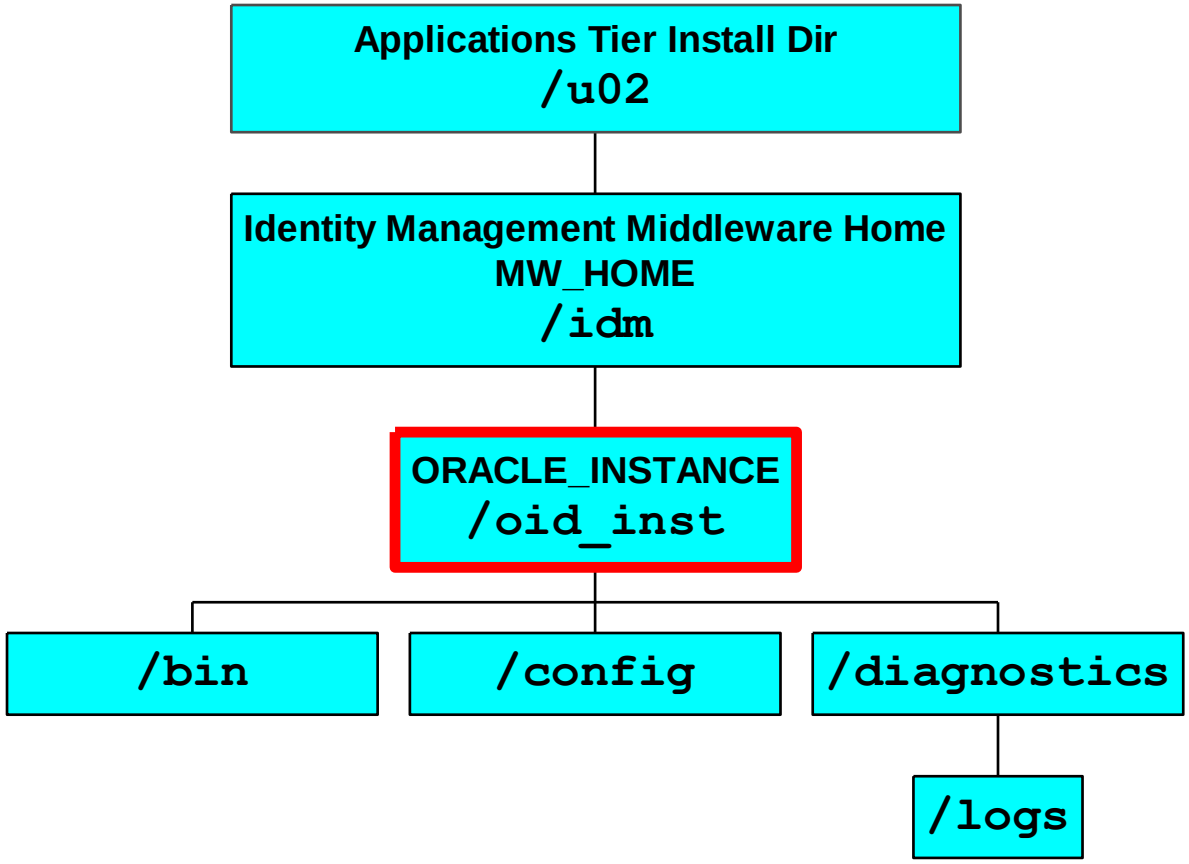

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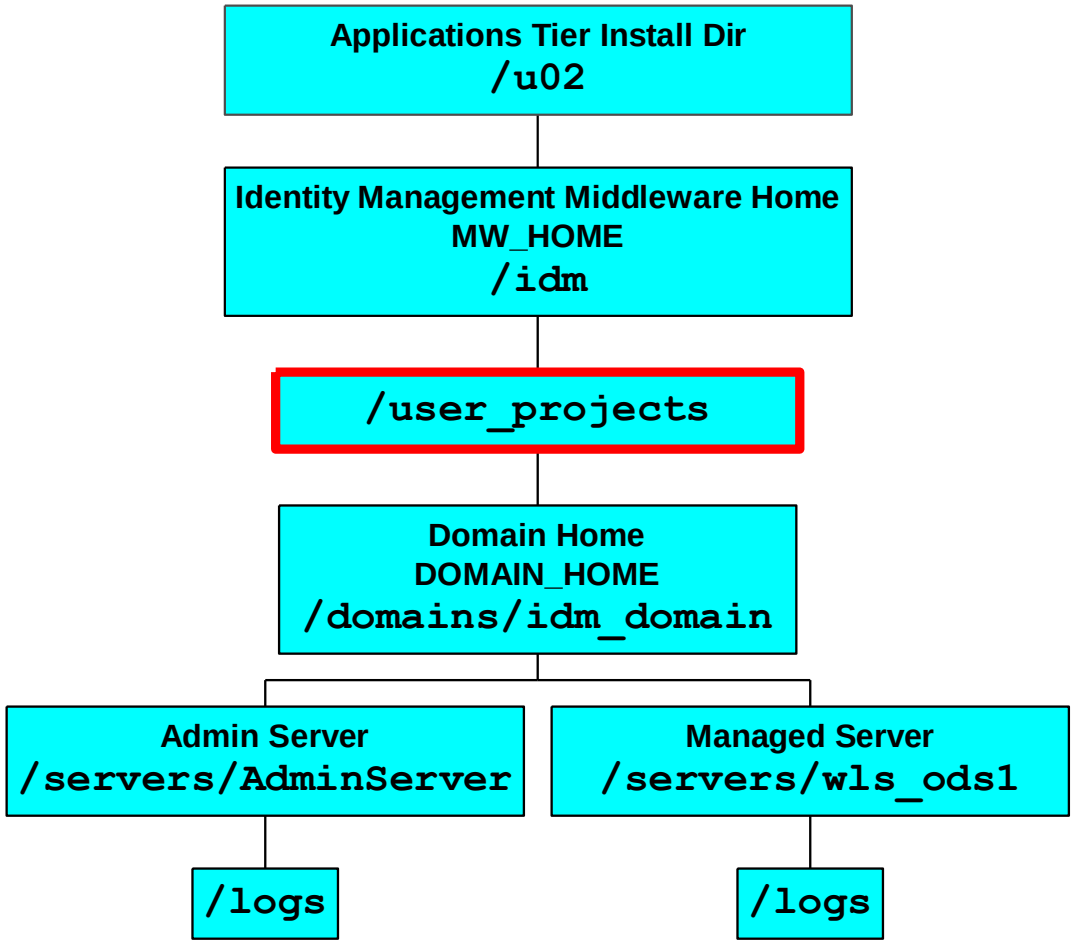

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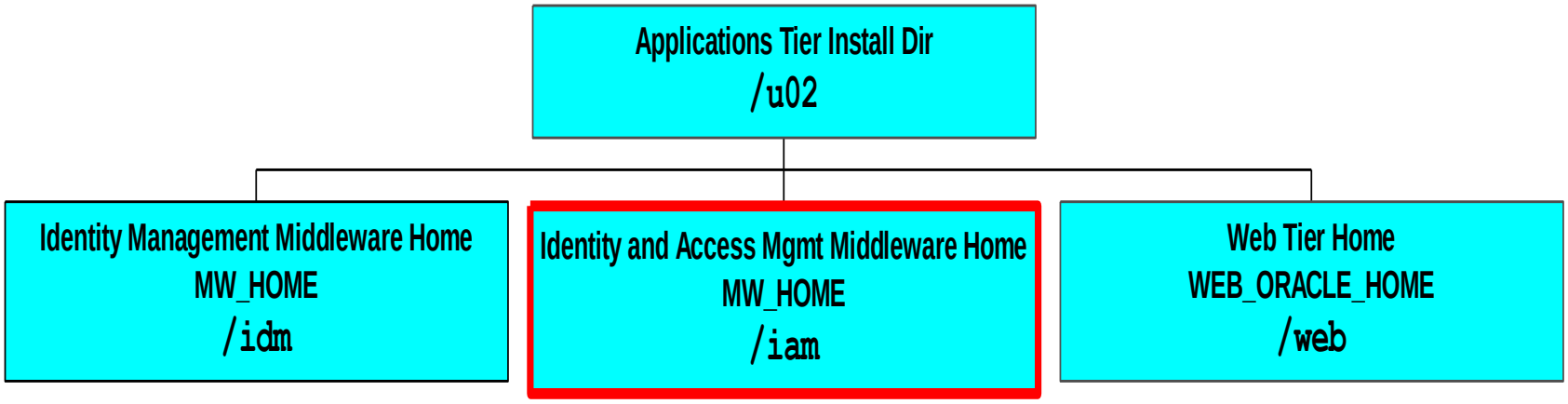

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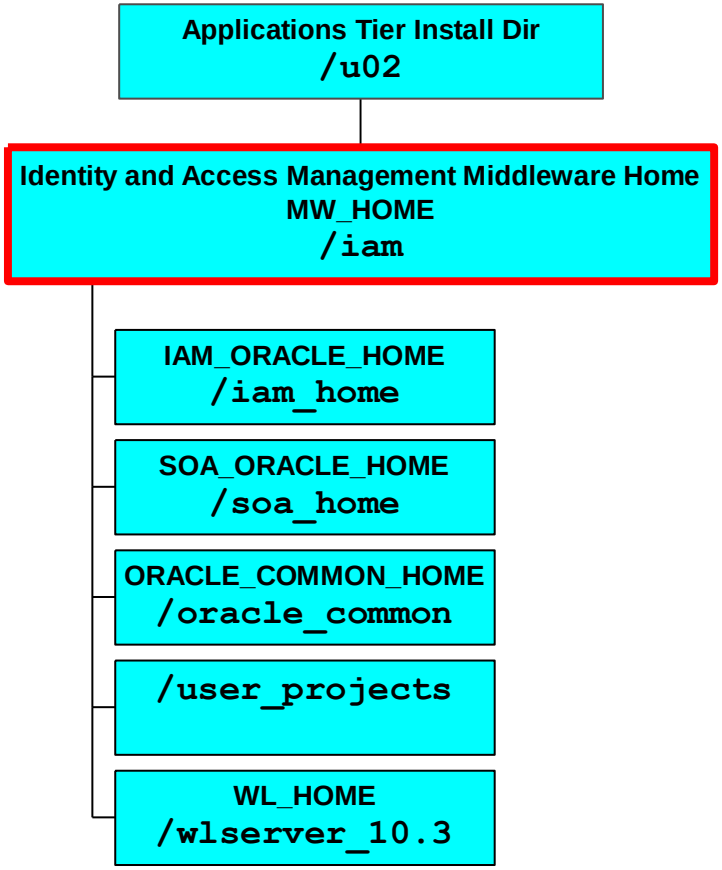

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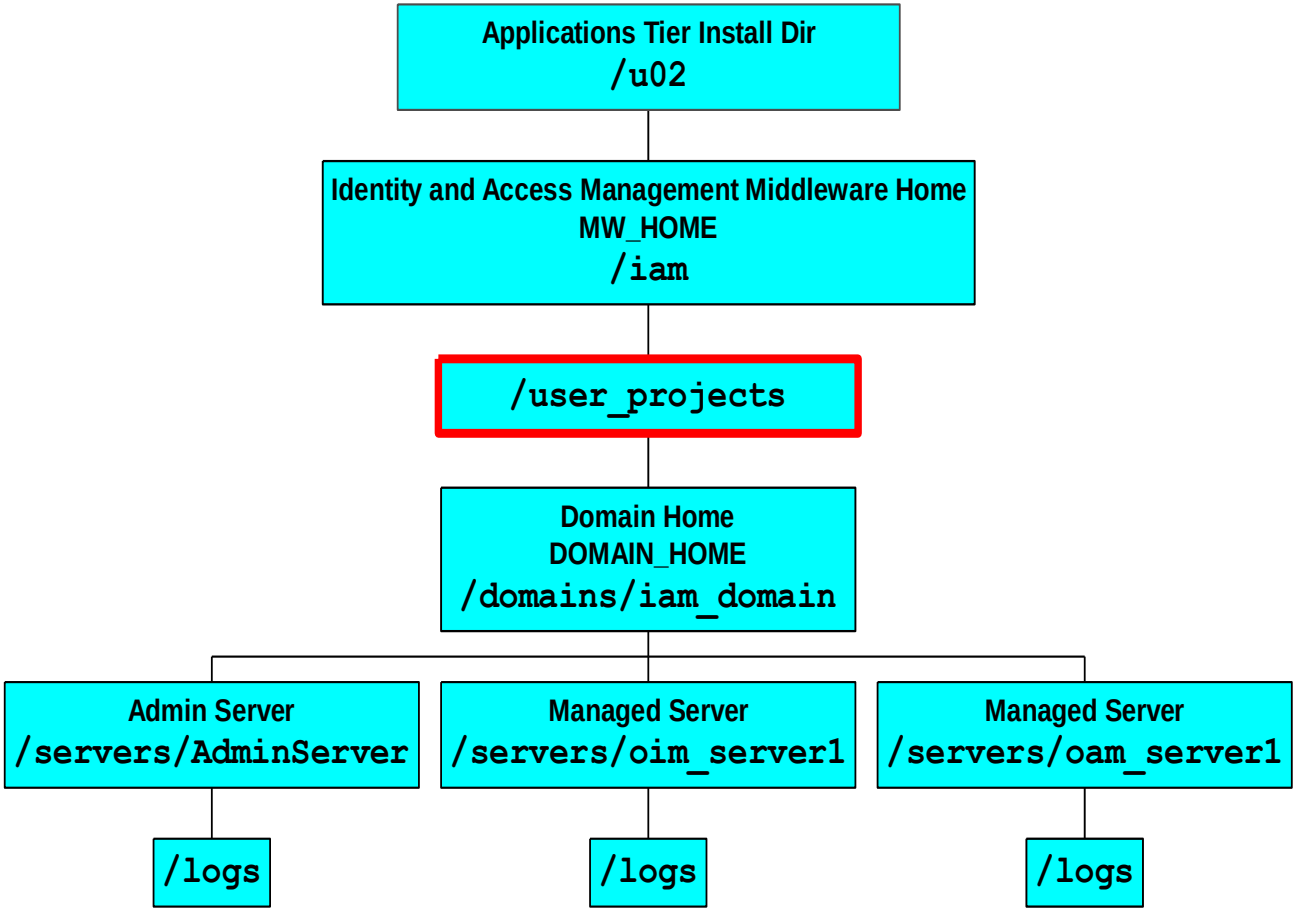

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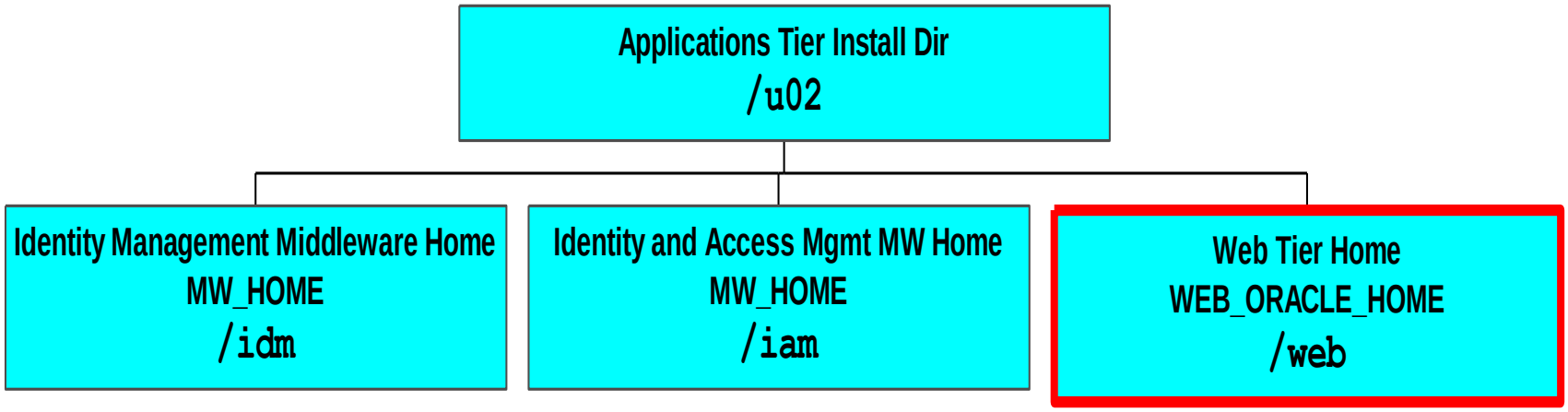

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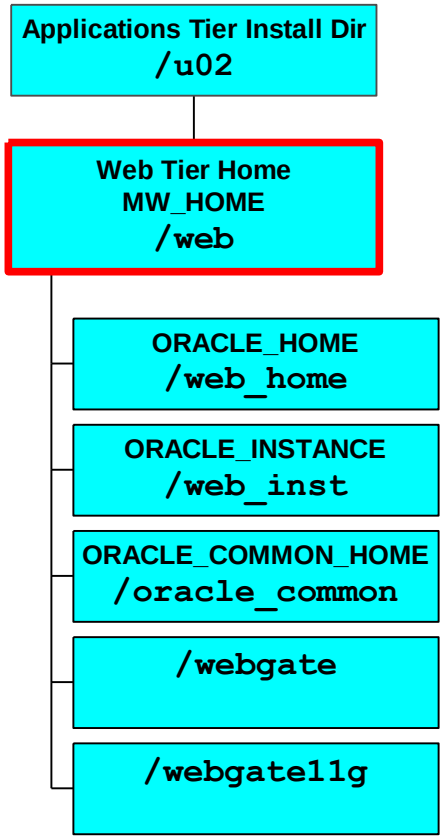

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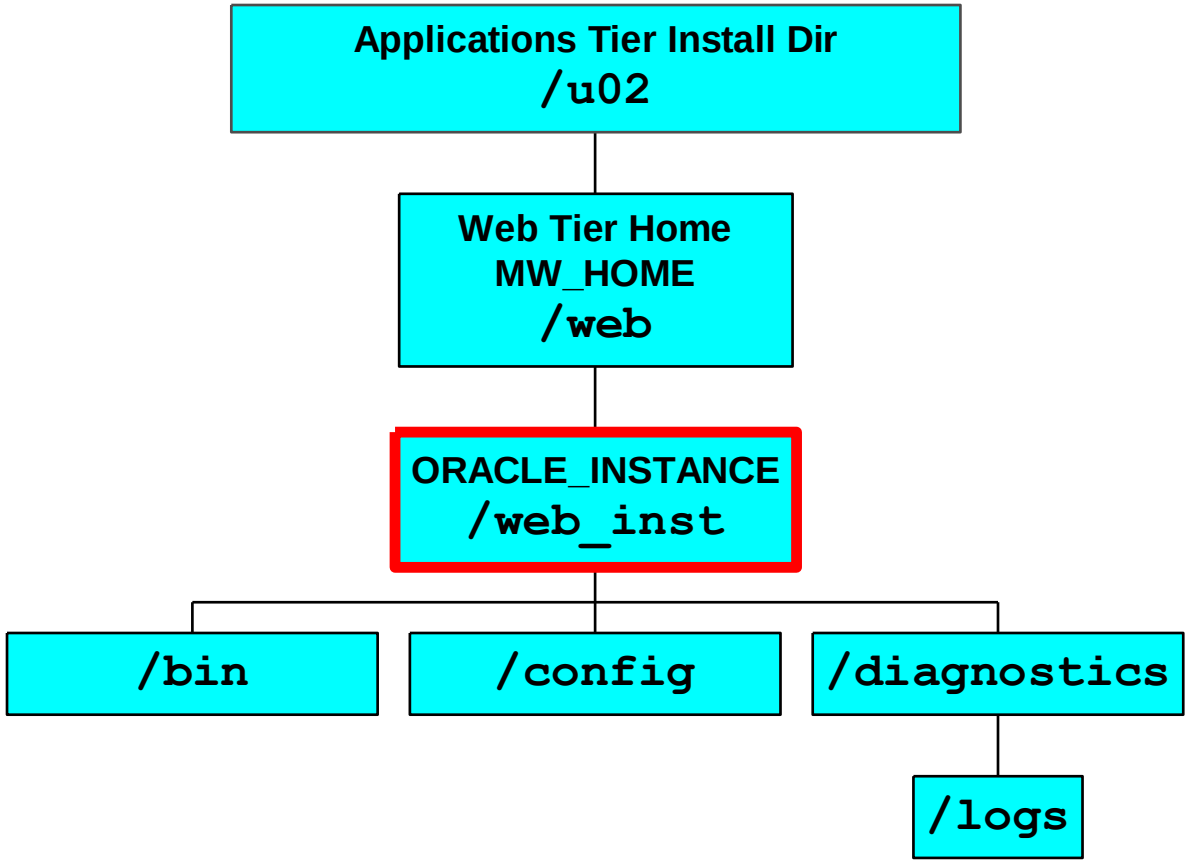

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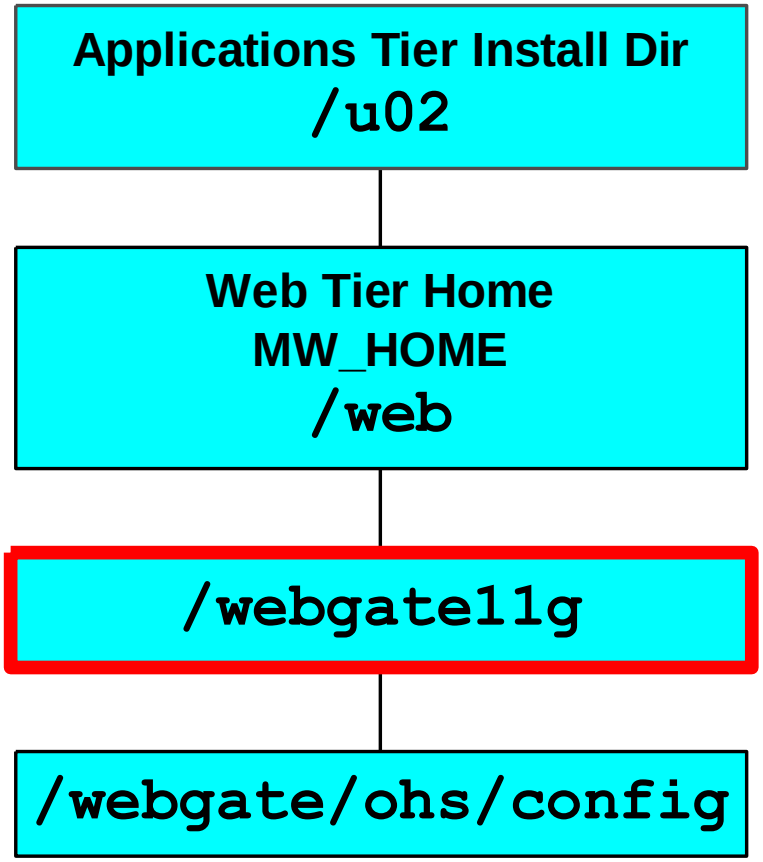

Takeaways

Oracle Fusion Applications Technology

- Applications built from scratch on contemporary, standards-based Oracle Fusion Middleware
- Applications architecture, 3 – tier model
- Deployable on premise, in the cloud, or in hybrid configurations
- Fusion Applications File System
- Identity Management File System

More Information

- Email Lakshmi.Reddeppa@oracle.com
- MOS Doc ID 100.1
- Fusion A Team Blog

Q&A

Thank You

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