

REUTERS/Lee Jae Won

ORACLE MAXIMUM AVAILABILITY ARCHITECTURE

Chris Chesney, Senior Director, Database & Middleware



THOMSON REUTERS DATABASE SCALE

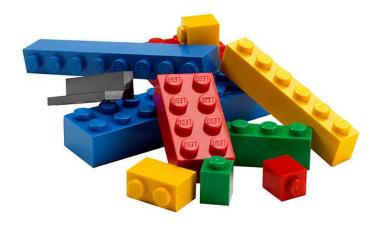
- Oracle Database Environment
 - Over 1200 Databases Deployed
 - Over 2400 Instances Deployed
 - Over 1 PB Of Allocated Storage
 - Over 350 New Instances Deployed
 Last Year





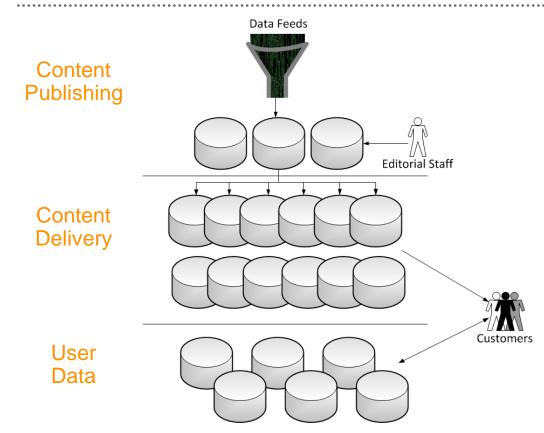
1. BUILDING BLOCKS

- TR Building Blocks
 - Linux, Intel, Oracle, NAS
- MAA Best Practices
 - Oracle RAC
 - Active Data Guard
 - Oracle GoldenGate





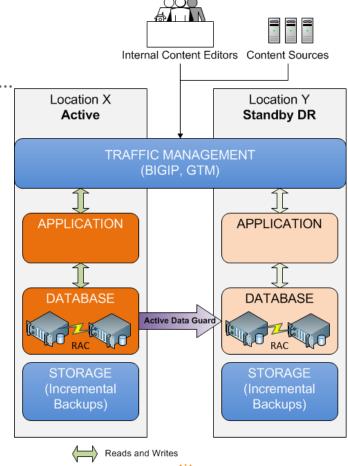
2. STANDARD DEPLOYMENT PATTERNS





CONTENT PUBLISHING

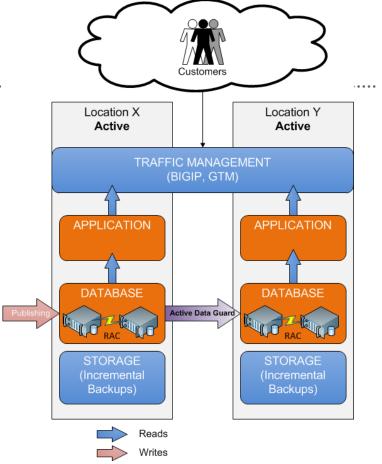
- Content Systems
 - Acquire/Enhance Content
 - Publish to Content Delivery
 Systems
 - Minutes of Downtime Tolerable
- Protection from
 - Hardware Failures
 - Site Failure
 - Active Data Guard Role Switch





CONTENT DELIVERY

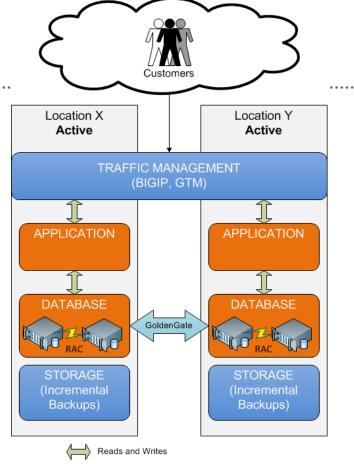
- Online Systems
 - -7x24x365
 - Zero Downtime for Read
- Protection from
 - Hardware Failures
 - Site Failure (Publishing Downtime)





USER DATA

- Customer Facing Products
 - Enhanced User Experience
 - Device Independence
 - Software as a Service (SaaS)
 - Zero Downtime for Read/Write
- Protection from
 - Hardware Failures
 - Site Failure





SERVICE LEVEL TIERS

GOLD

Zero read-write outage Near-zero data loss User Data

SILVER

Zero read outage Near-zero data loss

Content Delivery

BRONZE

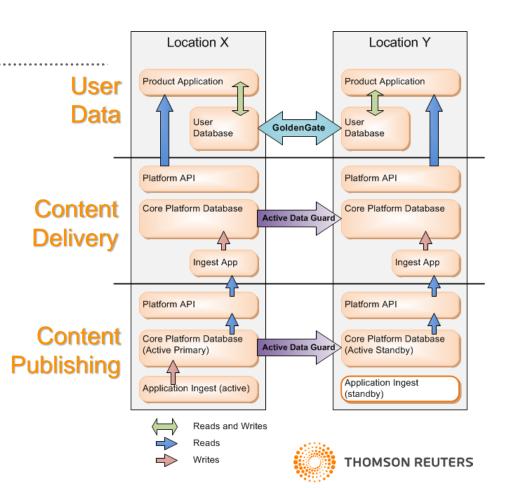
Minutes of downtime Near-zero data loss Content Publishing



3. BUILDING SYSTEMS

 Patterns combined to build systems





BRINGING IT ALL TOGETHER

1. Building Blocks + 2. Patterns + 3. Systems =



Simple.



