MicroStrategy On-Prem → MicroStrategy Cloud Environment (MCE) Migration Plan

# 1. Objectives

- Transition MicroStrategy from on-premises (Windows, June 2024 release) to MicroStrategy Cloud Environment (MCE) on Linux.  
- Establish MCE BI Development Environment (MCE-Dev) and MCE Production Environment (MCE-Prod) in sync with On-Prem Prod.  
- Ensure development continues uninterrupted; only migrations are paused during metadata copy.  
- Safeguard Database Instances and DSNs that are already configured and tested in MCE.

# 2. Strategy

- Freeze only promotions (Dev → Prod) for a short window. Developers continue work in On-Prem Dev.  
- Perform bulk metadata copy: On-Prem Prod → MCE-Dev → MCE-Prod.  
- Exclude Database Instances and DSNs during copy to preserve MCE connectivity.  
- Post-copy, remap project objects to existing tested DB instances/DSNs in MCE.  
- Validate fully in MCE-Dev; once approved, replicate to MCE-Prod under the same safeguards.  
- After cut-over, use CI/CD pipeline to selectively migrate unfinished Dev objects.

# 3. Phases, Activities & Checkpoints

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| Phase | Timeline | Activities | Checkpoints / Deliverables | Owners |
| Preparation | D-2 → D-1 | Announce migration freeze (promotions paused, Dev continues) Fast-track approved Dev → Prod changes Backup On-Prem Prod metadata Prepare Instance/DSN mapping sheet | Freeze comms sent On-Prem Prod stable Backup complete Mapping sheet ready | Dev Leads + Admin |
| Bulk Copy to MCE-Dev | Day D | Run metadata copy excluding DB Instances & DSNs Restore project into MCE-Dev | Metadata restored No overwrite of Instances/DSNs | Vendor + Admin |
| Remap & Validate (MCE-Dev) | D+1 → D+2 | Map project Database Instances to existing MCE DSNs Run smoke tests (reports, dashboards, schedules) Conduct UAT | Validation report Sign-off for MCE-Dev | QA + Business |
| Bulk Copy to MCE-Prod | D+3 | Repeat metadata copy excluding DB Instances & DSNs Restore into MCE-Prod | Metadata restored Instances/DSNs preserved | Vendor + Admin |
| Remap & Validate (MCE-Prod) | D+3 → D+4 | Map Instances to existing MCE-Prod DSNs Parallel test vs On-Prem Prod UAT confirmation | Go-live sign-off | QA + Business |
| Cut-Over | D+5 | Switch users to MCE-Prod Set On-Prem Prod read-only Share new URLs & comms | MCE-Prod live On-Prem frozen | Admin + PMO |
| Post-Cut-Over | Week 2–3 | Continue Dev in On-Prem Dev Use CI/CD pipeline to selectively migrate unfinished Dev objects to MCE-Dev Final backup & retire On-Prem Dev | Valuable objects migrated On-Prem Dev decommissioned | Dev Leads + Admin |

# 4. Database Instances & DSN Safeguards

- Do not overwrite Database Instances or DSNs during metadata copy into MCE-Dev or MCE-Prod.  
- Reason: Instances and DSNs are environment-specific and have already been configured and tested by the vendor in MCE. Overwriting them risks breaking validated connectivity.  
- After copy, remap project Database Instances to the existing tested DSNs in MCE.  
- Validate database connectivity, schedules, and a set of critical reports to confirm stability.

# 5. CI/CD Selective Migration

- After go-live, use CI/CD pipeline to selectively migrate in-progress Dev objects from On-Prem Dev → MCE-Dev.  
- This avoids carrying over “junk” or incomplete objects.  
- Apply governance checks (code review, dependency validation) before promoting into MCE.

# 6. Risks & Controls

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| Risk | Mitigation | Owner |
| DSN mismatch post-copy | Maintain mapping sheet; remap immediately; validate connectivity | Admin |
| Unused/junk objects in Dev | Exclude On-Prem Dev bulk copy; move only approved items via CI/CD | Dev Leads |
| User confusion at cut-over | Share clear comms (URLs, access steps, support contacts) | PMO |
| Version mismatch (tools) | Use updated Workstation/Developer for MCE; keep separate client if needed for On-Prem | Admin |

# 7. Final State

- All new development: MCE-Dev → MCE-Prod via CI/CD.  
- On-Prem Prod/Dev retired after stabilization and backups.  
- Database Instances & DSNs in MCE remain exactly as configured and tested.  
- MCE-Prod becomes the single source of truth.