LIVEWYER

# WORKLOAD MODERNISATION

## Technical Assessment Pilot

# Executive Summary

## The Background

Organisations face mounting pressure to modernise legacy VM-based applications as customers increasingly demand deployment flexibility across multiple cloud environments. Traditional virtualised infrastructure, once a competitive advantage, now creates deployment barriers that prevent access to cloud-native markets and limit business opportunities.

The challenge extends beyond technical constraints. Legacy applications consume 60-80% of IT budgets in maintenance activities whilst preventing the deployment agility that modern customers expect. Organisations must evaluate containerisation approaches carefully, balancing operational improvement needs against business continuity risks and implementation complexity.

## The Opportunity

We convert your maintenance burden challenge into a controlled modernisation evaluation that protects both technical credibility and business continuity. Our experience guiding application owners through containerisation transformations shows that systematic assessment prevents costly implementation failures whilst building organisational confidence in modernisation decisions.

This pilot provides hands-on validation using your actual applications rather than theoretical frameworks. We work alongside your technical teams to evaluate containerisation patterns, assess multi-cloud deployment capabilities, and document operational changes. Our independent assessment means we might recommend incremental approaches if comprehensive modernisation isn't suitable for your specific constraints.

### Our Success Criteria

Your specific pilot success criteria will be defined collaboratively during our initial meeting, based on the particular business challenges and customer deployment requirements you need to address.

Example criteria:

- → **Strategic Decision Confidence**: Provide comprehensive technical evidence enabling confident platform decisions, whether proceeding with KubeVirt migration, waiting for better conditions, or pursuing alternative approaches
- → **Technical and Operational Validation**: Demonstrate KubeVirt's ability to meet your performance benchmarks, operational workflows, and service level requirements through hands-on migration and testing of representative applications

### Strategic Foundation

This pilot positions your organisation to make confident technology choices based on practical evidence rather than vendor pressure. Teams that complete systematic workload assessment gain the technical knowledge and decision-making confidence needed to manage modernisation opportunities strategically.

## Timeline

Over three weeks, this pilot transforms your deployment constraints from a competitive barrier into strategic capabilities you control. We help you validate whether containerisation and modern deployment patterns can restore customer deployment flexibility whilst making your operations team more effective.

### Timeline Overview

- **Week 1**:
  Discovery and technical foundation establishment
- **Week 2**:
  Application containerisation with multi-cloud validation
- **Week 3**:
  Assessment completion and team enablement

### Week 1: Discovery and Technical Foundation

Your current VM-based applications might be blocking customer opportunities because deployment options are limited. This week, we work alongside your technical team to understand exactly what's preventing you from deploying where customers need you, then establish the technical foundation to test containerisation as a solution.

#### Legacy Application Assessment

Our team reviews your VM-based infrastructure with laser focus on customer deployment barriers and operational bottlenecks. We assess your containerisation readiness and document critical dependencies that must survive the transition to modern deployment patterns.

##### Current Environment Analysis

Working with your operations team, we examine the technical challenges:

- Multi-cloud compatibility gaps preventing customer deployment flexibility
- Manual deployment processes that slow feature delivery
- Infrastructure dependencies limiting hosting environment options

##### Outcomes

Our assessment provides foundation for pilot success:

- Current state documented with specific modernisation opportunities identified

- Team skills evaluated against containerisation requirements
- Critical constraints mapped to potential solutions

## Container Architecture Workshop

We collaborate with your technical teams to design containerisation patterns that solve your specific deployment challenges. This session maps current pain points to container-based solutions and defines the pilot technical approach.

### Architecture Design Process

This collaborative workshop addresses key technical decisions:

- Container platform selection based on your customer deployment requirements
- Multi-cloud strategy enabling deployment flexibility
- Integration patterns maintaining operational stability

### Outcomes

Workshop sessions produce concrete technical direction:

- Containerisation architecture tailored to your application characteristics
- Technology stack validated against customer requirements
- Implementation approach confirmed with risk assessment
- Technical feasibility established with realistic timeline

## Development Environment Setup

We deploy a working containerised environment configured to mirror your production needs. This provides the technical foundation for hands-on evaluation and team familiarisation with modern deployment workflows.

### Infrastructure Deployment

Environment setup includes operational tooling your team needs:

- Container orchestration platform matching your application patterns
- Multi-cloud connectivity demonstrating customer deployment scenarios
- Development workflows enabling rapid iteration and testing

### Outcomes

Environment preparation delivers working pilot foundation:

- Containerised infrastructure deployed and validated
- Development workflows established for evaluation activities
- Team access configured with initial technical orientation

### Week 1 Achievements

Deep understanding of deployment barriers established with working foundation:

- ☑ **Customer requirements mapped**: Specific deployment limitations preventing business opportunities
- ☑ **Technical foundation built**: Container environment ready for application modernisation
- ☑ **Team engagement started**: Collaborative approach established with knowledge transfer beginning

## Week 2: Implementation and Multi-Cloud Validation

We containerise your application and test it across multiple cloud environments to generate concrete evidence about deployment flexibility and operational changes. By week's end, you'll see whether containerisation solves your customer deployment barriers.

### Pilot Application Containerisation

Your pilot application gets transformed using industry-standard containerisation patterns. We focus on demonstrating multi-cloud deployment capabilities that directly address the customer requirements you cannot currently meet with VM-based infrastructure.

#### Container Implementation Focus

Our containerisation work addresses critical business questions:

- Application packaging enabling deployment across customer-preferred cloud environments
- Automated deployment workflows reducing manual operational overhead
- Performance validation ensuring containerised workloads meet service requirements

#### Outcomes

Containerisation provides working proof of concept:

- Pilot application running in containerised environment
- Multi-cloud deployment capability demonstrated with actual infrastructure
- Performance baselines established comparing container vs VM characteristics

### Technical Validation Testing

We test the containerised application against real operational scenarios and customer deployment requirements. This validation covers performance characteristics, multi-cloud workflows, and operational complexity to provide evidence for broader modernisation decisions.

#### Validation Approach

Testing addresses operational and business requirements:

- Multi-cloud deployment across customer-preferred environments

- Operational workflow comparison between container and VM management
- Integration testing with existing systems

**Outcomes**

Validation testing establishes evidence base:

- Technical performance documented against current VM baselines
- Multi-cloud deployment workflows validated with operational complexity assessment
- Integration requirements identified for broader implementation
- Evidence foundation established for final recommendations

### Week 2 Achievements

Working demonstration of containerisation solving deployment barriers:

- ☑ **Multi-cloud capability proven**: Live demonstration of deployment flexibility addressing customer needs
- ☑ **Operational impact documented**: Clear comparison of container vs VM management workflows
- ☑ **Technical feasibility validated**: Evidence-based assessment of broader modernisation potential

## Week 3: Assessment Completion and Team Enablement

We complete the pilot assessment by documenting findings, demonstrating results to stakeholders, and enabling your team with hands-on experience. You'll finish with clear recommendations and practical knowledge transfer.

### Assessment & Documentation

We document comprehensive findings covering technical validation, business impact, and strategic recommendations. This assessment provides the foundation for modernisation decisions with clear go/no-go guidance based on pilot evidence.

**Assessment Coverage**

Documentation addresses key decision factors:

- Technical feasibility with performance and operational evidence
- Business impact analysis including customer deployment benefits
- Implementation requirements and resource planning for broader rollout

**Outcomes**

Assessment documentation enables informed decisions:

- Comprehensive pilot assessment with technical and business findings

- Clear go/no-go recommendation with supporting evidence framework
- Implementation roadmap for broader containerisation programme

## Stakeholder Communication

We present pilot results through live demonstrations showing containerised application capabilities, multi-cloud deployment workflows, and operational improvements. These presentations provide stakeholders with concrete evidence of modernisation value.

### Demonstration Focus

Presentations address stakeholder priorities:

- Multi-cloud deployment scenarios solving customer barriers
- Operational workflow improvements and complexity changes
- Cost implications and resource requirements for transformation

### Outcomes

Stakeholder presentations build alignment:

- Modernisation value proposition validated through working examples
- Technical capabilities demonstrated addressing customer deployment needs
- Implementation concerns addressed with pilot evidence

## Team Enablement

Your technical team gains hands-on experience with containerisation through practical workshops covering operational scenarios, deployment patterns, and troubleshooting. This knowledge transfer ensures your team can evaluate and implement container technologies effectively.

### Enablement Activities

Workshops build practical containerisation skills:

- Container deployment and management workflows
- Multi-cloud deployment patterns and troubleshooting
- Operational procedures for containerised application lifecycle

### Outcomes

Team enablement builds internal capability:

- Containerisation competency assessed with skills development needs identified
- Hands-on experience transferred through practical workshop exercises
- Training requirements documented for broader team development

### Final Assessment and Recommendations

We provide structured assessment covering modernisation feasibility, investment requirements, and strategic options based on comprehensive pilot validation. Our recommendations help you choose the right path forward whilst building organisational confidence in containerisation technologies.

This assessment uses findings from the pilot to support strategic decision-making:

- ☑ Technical validation results demonstrating multi-cloud deployment capabilities
- ☑ Operational impact assessment comparing containerised vs VM-based management approaches
- ☑ Skills development requirements and team readiness evaluation for broader transformation
- ☑ Investment timeline and resource allocation considerations for modernisation programme

## Strategic modernisation opportunity and next steps

This pilot transforms external customer deployment pressures into a strategic modernisation opportunity that positions your organisation for long-term competitive advantage whilst providing immediate operational clarity. Together, we build practical expertise in containerisation technologies and multi-cloud deployment patterns that becomes valuable technical capability regardless of whether you proceed with comprehensive modernisation or pursue alternative approaches. The systematic evaluation methodology we develop collaboratively provides your team with frameworks for assessing future technology decisions with confidence, converting the current challenge into organisational strength that supports sustained technical excellence and strategic independence in an evolving technology landscape.