

Wind River VM Migration Service

A structured, predictable engagement for migrating workloads to modern, open private cloud infrastructure without disruption.



THE REAL RISK ISN'T MIGRATION. IT'S STAYING PUT.

For years, enterprise organizations built their cloud and virtualization infrastructure on a small handful of dominant platforms. That concentration made sense at the time. Established vendors offered broad tooling, large support ecosystems, and predictable pricing. But the calculus has changed.

Vendor acquisitions, aggressive license restructuring, and changes to support models have exposed a fundamental vulnerability: Organizations that depend on a single platform for mission-critical workloads have very little leverage when that platform's terms shift. The cost of staying — measured in licensing fees, operational overhead, and long-term lock-in — can now exceed the cost and complexity of moving.

At the same time, the workloads themselves have grown more complex. Enterprises are running virtual machines, containers, and bare-metal workloads, often across hybrid and distributed environments. Any migration path must account for this complexity without creating unacceptable downtime or operational risk.

The question is not simply whether to migrate but how to do it predictably without disrupting the operations that depend on that infrastructure every day.

WHY MIGRATION PROJECTS FAIL — AND WHAT IT TAKES TO SUCCEED

Many organizations understand the case for moving. What stops them is not lack of interest but rather the complexity of doing it safely. Cloud infrastructure migrations carry a high risk of becoming never-ending projects due to the following failure points:

- Incomplete workload inventories that miss critical infrastructure dependencies until mid-migration
- Inadequate hardware capacity to land workloads before existing infrastructure is decommissioned
- No proven path from existing tooling and scripts to the target platform
- Poor maintenance-window planning that turns scheduled transitions into unplanned outages
- A lack of coordination with application owners on user acceptance and performance testing post-migration
- Cost and timeline overruns from insufficient upfront planning

Beyond the consequences of going over budget, business disruption is the most fatal outcome — eroding trust with internal stakeholders, impacting end customers, and, in some cases, setting modernization programs back years.

Successful migrations don't just happen because the destination platform is capable. They happen because the right governance, tooling, and expertise are in place, along with a partner that is accountable for outcomes at every phase, not just at go-live.

WIND RIVER VM MIGRATION SERVICE

Wind River takes a structured, end-to-end approach to migrating workloads from existing virtualization platforms to modern cloud infrastructure — ensuring predictable outcomes and minimal disruption to ongoing operations.

From initial assessment through production go-live, experts work closely with customer stakeholders, defining clear deliverables and acceptance criteria at every stage.

Both cold migration (performed during scheduled maintenance windows) and warm migration (where virtual machines remain active until the final cutover) are supported. The optimal approach is determined based on the customer's environment and operational requirements.

Wind River has executed large-scale migrations in some of the world's most demanding network environments — where availability is measured in nines and unplanned downtime carries direct revenue consequences.

HOW IT WORKS: A FIVE-PHASE ENGAGEMENT

No two migration environments are identical. Wind River's methodology is structured around five phases that move the customer from initial assessment through live production and then into ongoing lifecycle management. Each phase has defined deliverables and clear ownership between Wind River, the customer, and any engaged systems integrator (SI) partner.

1 DISCOVERY AND ANALYSIS

A service-led engagement in which Wind River works directly with customer stakeholders to assess the existing environment, create an inventory of workloads classified by migration complexity, identify infrastructure dependencies, and identify risks.

Deliverable: An initial design blueprint, including a workload and infrastructure dependency inventory and an initial workload complexity / risk profile.

2 MIGRATION PROPOSAL

The formal proposal covering product, services, and full migration scope is developed, including determining who will perform the migration: Wind River, a qualified SI partner, or a combination that includes the organization's own team.

Deliverable: A formal statement of work for the migration service.

3 PLAN, DESIGN, STAGE, AND TEST

Detailed project planning, architecture design, and staging environment installation and configuration is completed. Internal and external test plans are developed. Workloads are tested and validated before any production migration begins.

Deliverable: A validated staging environment, external & internal test plans, and documented rollback and cutover playbooks.

4 IMPLEMENTATION AND DEPLOYMENT

The actual workload migration is executed by Wind River or a qualified global SI, using Wind River Conductor to automate the movement of workloads across nodes at scale. Wind River remains accountable for migration tooling, runbooks, and success criteria throughout.

Deliverable: Fully migrated workloads live in production on the target environment.

5 LIFECYCLE MANAGEMENT

Ongoing platform lifecycle management: deploying patches and updates, scaling the environment by adding or removing hosts, and maintaining the operational health of the migrated cloud infrastructure.

Deliverable: A consistently updated, operationally stable cloud environment.

WHAT MAKES WIND RIVER DIFFERENT

Organizations considering a migration engagement have options. What distinguishes Wind River is the combination of mission-critical operational experience, open-source architecture, flexible delivery, and long-term platform accountability.

Proven In Always-On Environments

Wind River has executed large-scale migrations in some of the world's most demanding network environments, where availability is measured in nines and unplanned downtime carries direct business and revenue consequences. Our mission-critical heritage provides customers with expertise for settings in which failure is not an option.

Structured Engagement, Flexible Delivery

Migration isn't a product you install; it's a project that can succeed or fail. Wind River brings a defined methodology, proven expertise, and specialized automation tooling to every engagement, no matter the delivery model. Either way, customers get a partner accountable for outcomes at every phase, not just software and a handoff.

Uniquely Powered by Wind River Conductor

Wind River Conductor is the automation and orchestration engine behind every migration, moving workloads at scale with a level of predictability that manual processes cannot replicate. Once the migration is complete, Conductor stays in place – managing upgrades, updates, and operational changes to keep the environment current and secure.

Open Architecture with No Vendor Lock-In

Wind River Cloud Platform is built on open-source foundations — OpenStack and Kubernetes — supported by multiple commercial vendors. Customers escape their current platform dependency without trading it for another. The open model ensures long-term portability, keeping infrastructure strategy in the customer's hands.



120K+

PRODUCTION SITES DEPLOYED

Successful deployments across thousands of work cells and lines



SIX NINES

ALWAYS-ON AVAILABILITY

Near-zero downtime for production

START WITH DISCOVERY

Every Wind River Migration Service engagement begins with a structured discovery workshop. This is the lowest-risk way to understand exactly what a migration will require — before making any commitment to a full-scale implementation. Migration is complex. It doesn't have to be uncertain. Speak with a [Wind River cloud migration expert today](#).

WIND RIVER PROFESSIONAL SERVICES

The CMMI Level 3–rated Wind River Professional Services organization provides expert support across cloud migration planning, workload assessment, infrastructure deployment, and lifecycle management. Working alongside customer teams, Wind River delivers structured migration engagements — from initial discovery and analysis through full-scale implementation — including environment assessment, migration tooling customization, and ongoing operational support via Wind River Conductor. Our services help reduce migration risk, accelerate time-to-value, and ensure operational continuity across complex, mission-critical cloud environments. Visit www.windriver.com/services to learn more.

WINDRIVER

Wind River is a global leader of software for the intelligent edge. Its technology has been powering the safest, most secure devices since 1981 and is in billions of products. Wind River is accelerating the digital transformation of mission-critical intelligent systems that demand the highest levels of security, safety, and reliability.

© 2026 Wind River. The Wind River logo is a trademark of Wind River, and Wind River and VxWorks are registered trademarks of Wind River. Rev. 05/2026