



ShapeBlue
Migrate

FASTER. EASIER. SMARTER.



Migration is not a *speed*
problem.

It's a *downtime* problem!



IN PROGRESS

2

actively migrating

COMPLETED

4

this cycle

NEEDS REVIEW

0

validation required

FAILED

0

operator action needed

VM	SOURCE	TARGET	WAVE	STATUS	MIGRATION	DURATION	ETA	LAST SYNC	CUTOVER
web-prod-03	—	—	Low Risk	● RUNNING	<div style="width: 64%;"><div style="width: 64%;"></div></div> 64%	2m 59s	~2m	12:41	—
app-prod-01	—	—	Low Risk	● RUNNING	<div style="width: 38%;"><div style="width: 38%;"></div></div> 38%	6m 23s	~10m	12:41	—
haproxy-lb-02	—	—	Low Risk	● COMPLETED	<div style="width: 100%;"><div style="width: 100%;"></div></div> 100%	2m 0s	—	11:04	● DONE
haproxy-lb-01	—	—	Low Risk	● COMPLETED	<div style="width: 100%;"><div style="width: 100%;"></div></div> 100%	2m 0s	—	11:02	● DONE
web-prod-02	—	—	Low Risk	● COMPLETED	<div style="width: 100%;"><div style="width: 100%;"></div></div> 100%	5m 0s	—	10:59	● DONE

Action Center

Open Discover

20 VMs are ready to move into planning

Review Plan

0 VMs need target network validation

Inspect Logs

0 jobs show errors needing action

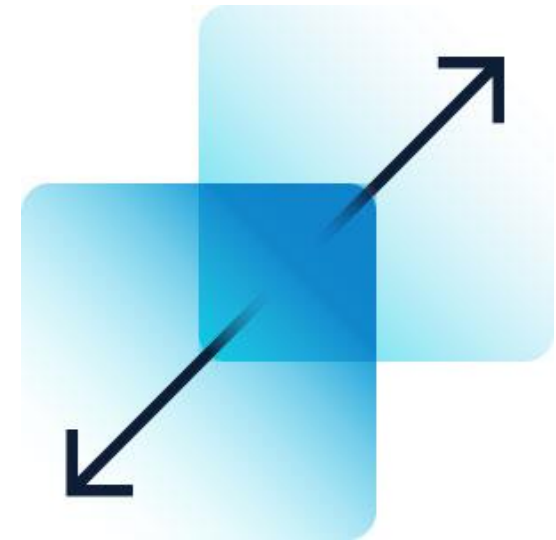
ShapeBlue Migrate is an automated migration tool designed to help organizations move large-scale VMware environments to Apache CloudStack quickly, securely, and with minimal disruption.

ShapeBlue Migrate automatically discovers and inventories your VMware environment, groups workloads into migration waves, orchestrates migration through multiple migration mechanism, and enables planned cutovers aligned with your operational requirements.

Since the early days of the Broadcom acquisition of VMware, ShapeBlue has been helping organizations navigate VMware migration projects. Drawing on this real-world experience, **we developed ShapeBlue Migrate to address the challenges, risks, and concerns** cloud operators face when moving to open-source infrastructure.

Key Problems for Cloud Builders Solved with ShapeBlue Migrate:

- Reduce migration complexity
- Accelerate your journey to vendor-independance
- Simplify the transition from VMware to open-source
- Apply intelligent automation
- Reduce downtime and risks to minimum



Intelligent Automation

Lower Risk

Minimize downtime
Reduce migration failures
Improve planning and visibility

Increase Efficiency

Automate discovery and execution
Reduce manual effort
Accelerate migration timelines

Enable Strategic Change

Eliminate vendor lock-in
Reduce virtualization costs
Adopt open-source infrastructure

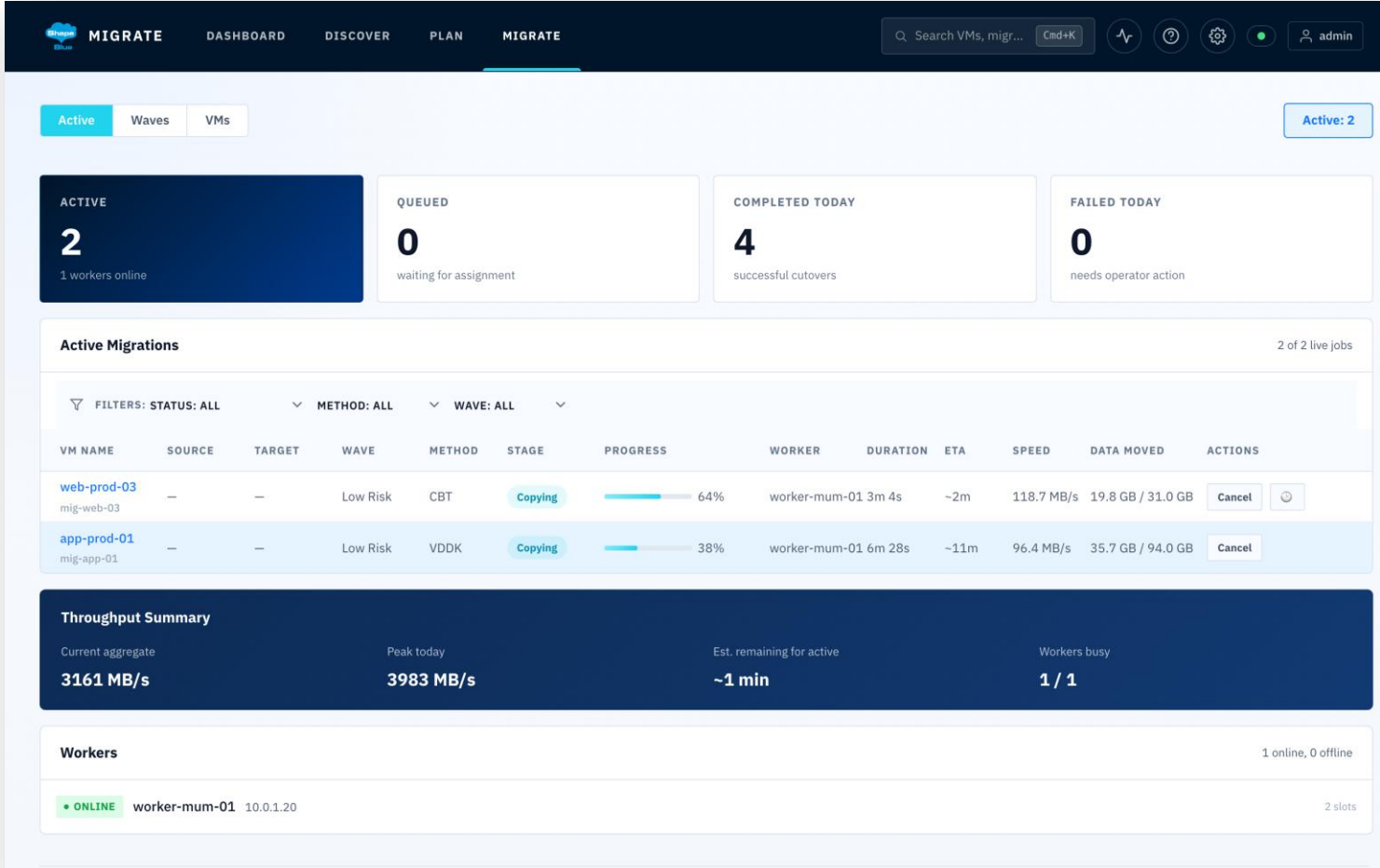
The screenshot displays the VMware Migrate console interface. At the top, there's a navigation bar with 'MIGRATE', 'DASHBOARD', 'DISCOVER', 'PLAN', and 'MIGRATE' tabs. A search bar and user profile 'admin' are also visible. The dashboard features five key metrics cards: 'VMS DISCOVERED' (20, 20 ready for planning), 'TOTAL STORAGE' (6.9 TB, estimated migrated footprint), 'NETWORKS' (0, unique VMware networks discovered), 'LAST SCAN' (12:33, status: failed), and 'DISCOVERY RUNS' (5, last run 12:33). Below these are filter buttons for 'RUN DISCOVERY' and 'ANALYZE DEPENDENCIES'. A filter bar shows various dropdowns for 'FILTERS', 'POWER', 'READINESS', 'PLAN STATUS', and 'MIGRATION'. The main content area shows '20 of 20 VMs' with 'ADD TO PLAN' and 'ADD TO GROUP' buttons. A table lists the VMs with columns for NAME, VCENTER, DC / CLUSTER, DATASTORE, NETWORKS, POWER, PLAN, READINESS, CPU / RAM, STORAGE, DISKS, and NICS.

<input type="checkbox"/>	NAME	VCENTER	DC / CLUSTER	DATASTORE	NETWORKS	POWER	PLAN	READINESS	CPU / RAM	STORAGE	DISKS	NICS
<input type="checkbox"/>	web-prod-01	-	DC-Mumbai / Cluster-Prod	ds-prod-ssd-01	-	ON	PLANNED	READY	4 / 8 GB	28.0 GB	-	0
<input type="checkbox"/>	web-prod-02	-	DC-Mumbai / Cluster-Prod	ds-prod-ssd-01	-	ON	PLANNED	READY	4 / 8 GB	29.0 GB	-	0
<input type="checkbox"/>	web-prod-03	-	DC-Mumbai / Cluster-Prod	ds-prod-ssd-01	-	ON	PLANNED	READY	4 / 8 GB	31.0 GB	-	0
<input type="checkbox"/>	app-prod-01	-	DC-Mumbai / Cluster-Prod	ds-prod-ssd-02	-	ON	PLANNED	READY	8 / 16 GB	94.0 GB	-	0
<input type="checkbox"/>	app-prod-02	-	DC-Mumbai / Cluster-Prod	ds-prod-ssd-02	-	ON	PLANNED	READY	8 / 16 GB	101.0 GB	-	0
<input type="checkbox"/>	app-prod-03	-	DC-Mumbai / Cluster-Prod	ds-prod-ssd-02	-	ON	PLANNED	READY	8 / 16 GB	88.0 GB	-	0
<input type="checkbox"/>	db-prod-primary	-	DC-Mumbai / Cluster-Prod	ds-db-nvme-01	-	ON	PLANNED	READY	16 / 64 GB	1420.0 GB	-	0

ShapeBlue Migrate Features

Virtual machine migration varies significantly depending on workload characteristics, storage architecture, data volumes, network connectivity, and downtime constraints.

By supporting multiple migration mechanisms - including CBT, VDDK, OVF, and OVERLAY - **ShapeBlue Migrate enables you to select the most appropriate migration mechanism** for each workload, optimizing data transfer efficiency.



ShapeBlue Migrate Features

Agentless discovery:

across multiple vCenters, with folder/pool/tag filters - no VMware-side agent required.

Zero-copy moves:

OVERLAY migrates without copying a byte on shared NFS.

IP/MAC preservation:

guests keep their original addresses, no reconfiguration.

Smart wave planning:

auto-groups VMs by dependency and risk into ordered waves.

Scheduled cutovers:

graceful or hard, on a calendar, with tunable sync intervals.

Live observability:

per-VM progress, throughput, ETA, metrics, traces, logs.

Four migration methods:

CBT, VDDK, OVF, OVERLAY, selectable per VM or wave.

Granular overrides:

network, storage, offering, boot - global, wave, or per VM.

Enterprise operations:

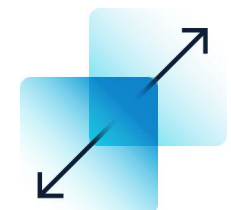
high availability, backups, RBAC, encrypted credentials, audit, auto-retry.

Near-zero downtime:

CBT delta-sync cuts over in minutes at any VM size.

First-boot customisation:

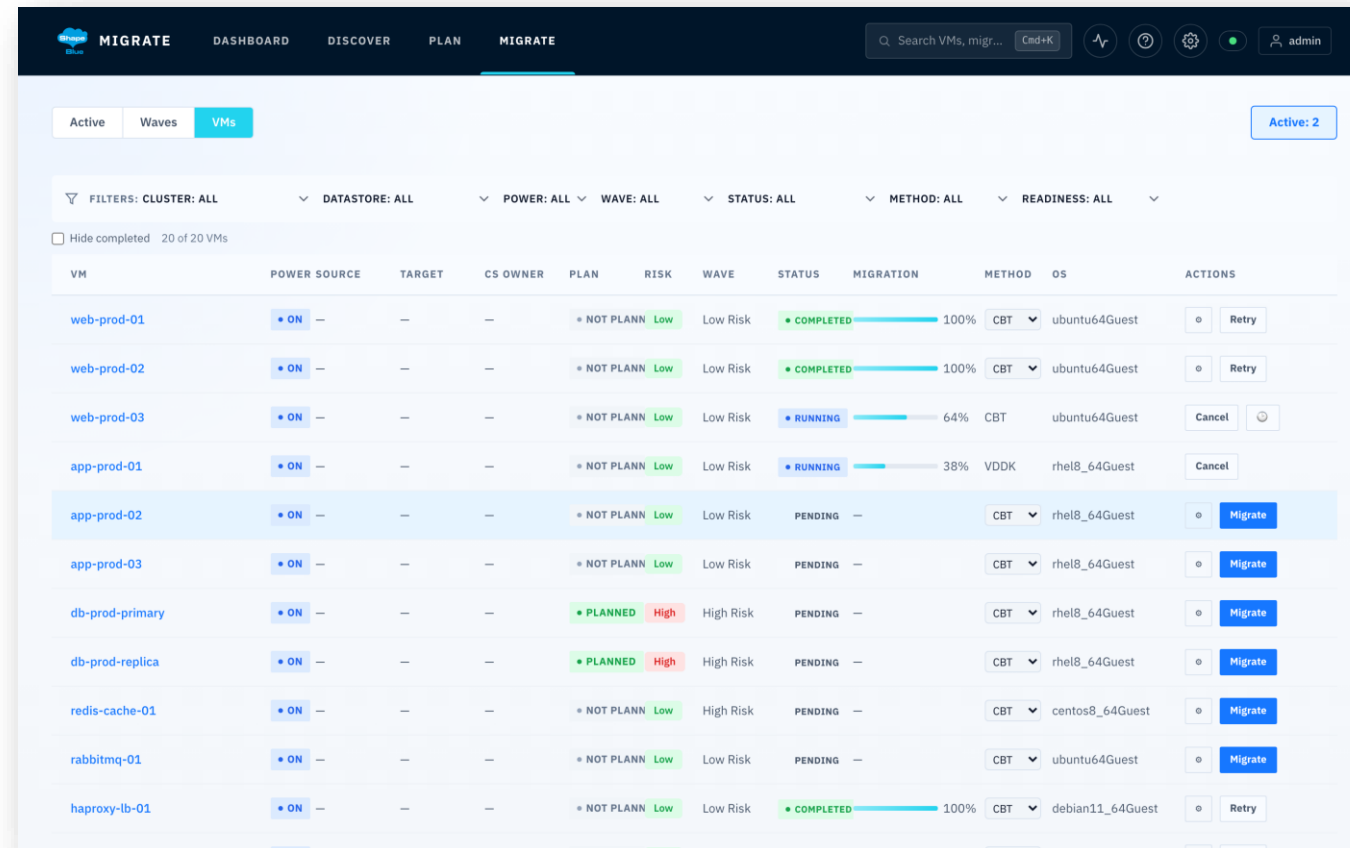
reusable scripts adapt guests on first start.



Large-scale VMware Migrations with ShapeBlue

Apache CloudStack provides native virtual machine import capabilities. **ShapeBlue Migrate** complements these capabilities by delivering an **end-to-end migration tool for large-scale VMware-to-CloudStack transitions**, including automated discovery, migration planning, workload grouping, transport orchestration, execution management, and migration tracking.

In addition, **ShapeBlue Migrate supports multiple migration methods**, including CBT, VDDK, OVF, and OVERLAY, enabling organizations to select the most appropriate migration strategy for each workload.



The screenshot displays the ShapeBlue Migrate web interface. The top navigation bar includes 'MIGRATE', 'DASHBOARD', 'DISCOVER', 'PLAN', and 'MIGRATE'. A search bar is present with the text 'Search VMs, migr...' and a 'Cmd+K' button. The main content area shows a table of migration tasks with columns for VM, POWER SOURCE, TARGET, CS OWNER, PLAN, RISK, WAVE, STATUS, MIGRATION, METHOD, OS, and ACTIONS. The table lists various VMs with their current status and migration progress.

VM	POWER SOURCE	TARGET	CS OWNER	PLAN	RISK	WAVE	STATUS	MIGRATION	METHOD	OS	ACTIONS
web-prod-01	ON	-	-	NOT PLANN	Low	Low Risk	COMPLETED	100%	CBT	ubuntu64Guest	Retry
web-prod-02	ON	-	-	NOT PLANN	Low	Low Risk	COMPLETED	100%	CBT	ubuntu64Guest	Retry
web-prod-03	ON	-	-	NOT PLANN	Low	Low Risk	RUNNING	64%	CBT	ubuntu64Guest	Cancel
app-prod-01	ON	-	-	NOT PLANN	Low	Low Risk	RUNNING	38%	VDDK	rhel8_64Guest	Cancel
app-prod-02	ON	-	-	NOT PLANN	Low	Low Risk	PENDING	-	CBT	rhel8_64Guest	Migrate
app-prod-03	ON	-	-	NOT PLANN	Low	Low Risk	PENDING	-	CBT	rhel8_64Guest	Migrate
db-prod-primary	ON	-	-	PLANNED	High	High Risk	PENDING	-	CBT	rhel8_64Guest	Migrate
db-prod-replica	ON	-	-	PLANNED	High	High Risk	PENDING	-	CBT	rhel8_64Guest	Migrate
redis-cache-01	ON	-	-	NOT PLANN	Low	High Risk	PENDING	-	CBT	centos8_64Guest	Migrate
rabbitmq-01	ON	-	-	NOT PLANN	Low	Low Risk	PENDING	-	CBT	ubuntu64Guest	Migrate
haproxy-lb-01	ON	-	-	NOT PLANN	Low	Low Risk	COMPLETED	100%	CBT	debian11_64Guest	Retry

The Result



Predictable Outages

Cutover windows become a matter of minutes, regardless of disk size.



Full Automation

Driver injection (VirtIO), disk transformation, and CloudStack API registration are all handled by the ShapeBlue Migrate. No manual steps.



Built-in Safety

The source VM is left completely untouched. It's a perfect roll-back point until the cutover is verified and signed off.



How to Get Started with ShapeBlue Migrate

*Interested in automating your VMware to Apache CloudStack
Migration?*

Email us at info@shapeblue.com