



CHECKLIST

VMware ESXi Patch Management and Maintenance Mode Checklist

A practical checklist for preparing, patching, and validating ESXi hosts so maintenance mode transitions are safe, workloads evacuate cleanly, and hosts return to production without surprises.

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Use this checklist to plan, execute, and validate ESXi host patching with maintenance mode as a control point for workload safety.

1) Scope and change preparation

- ☐ Confirm the host(s) in scope, maintenance window, and required change approval.
- ☐ Record current ESXi version, build number, vendor image profile, and patch baseline.
- ☐ Confirm the rollback plan, including restoration method and decision point for aborting the change.
- ☐ Verify cluster membership and whether the host participates in DRS, HA, vSAN, or other cluster services.
- ☐ Identify any dependencies that could affect evacuation:
- ☐ Shared storage accessibility
- ☐ vMotion readiness
- ☐ Distributed switch or port group dependency



- ☐ Host profile or compliance requirements
- ☐ Security baseline or hardening requirements

2) Cluster readiness check

- ☐ Confirm the cluster has enough spare capacity to absorb the host workloads.
- ☐ Review CPU headroom, memory headroom, and reservation pressure.
- ☐ Validate admission control impact if HA is enabled.
- ☐ Check for anti-affinity rules, affinity rules, or pinned workloads.
- ☐ Review active alerts, alarms, and recent task failures.
- ☐ Confirm no other host is already in maintenance mode unless the cluster can safely tolerate it.

3) Workload evacuation readiness

- ☐ Verify each VM on the host can move or be safely powered down.
- ☐ Identify VMs with any of the following constraints:
 - ☐ CPU compatibility concerns
 - ☐ Device pass-through or PCI device attachment
 - ☐ Connected ISO or removable media dependency
 - ☐ Storage policy limitations
 - ☐ Snapshot chains or snapshot sprawl
 - ☐ Application-level affinity requirements
- ☐ Confirm there are no management appliances, infrastructure services, or special-purpose workloads that must stay on the host.
- ☐ Ensure change owners for critical VMs are aware of the maintenance window.



4) Storage and network checks

- ☐ Confirm all required datastores are accessible from the remaining hosts.
- ☐ Validate storage policy compliance for workloads being moved.
- ☐ Confirm datastore latency is within normal operating range.
- ☐ Verify distributed switch, uplinks, and port groups are healthy.
- ☐ Confirm network configuration is consistent across hosts that will receive migrated VMs.
- ☐ Check for NIC, VLAN, or uplink issues that could affect post-migration connectivity.

5) Enter maintenance mode

- ☐ Start the evacuation process using the approved method.
- ☐ Confirm whether workloads are evacuated automatically, partially assisted, or require manual intervention.
- ☐ Watch for any VMs that remain pinned to the host.
- ☐ If maintenance mode fails, stop and identify the blocker before forcing the change.
- ☐ Document the reason if the host cannot enter maintenance mode cleanly.

If maintenance mode does not complete, classify the blocker:

- ☐ Mobility issue
- ☐ Capacity issue
- ☐ Storage issue
- ☐ Network issue



- ☐ Process issue
- ☐ Task or agent issue

6) Patch execution

- ☐ Confirm the patch source or image baseline is approved.
- ☐ Verify the patch matches the intended ESXi version and vendor support matrix.
- ☐ Apply the update using the approved process.
- ☐ Record the patch time, build number, and any warnings or errors.
- ☐ Reboot the host if required by the update.
- ☐ Confirm the host reconnects successfully after reboot.

7) Post-patch validation

- ☐ Confirm the host version and build match the intended target.
- ☐ Verify the host is healthy and responsive.
- ☐ Check for new alarms, errors, or degraded services.
- ☐ Confirm management agents are running normally.
- ☐ Validate network connectivity, vmkernel services, and storage paths.
- ☐ Check datastore visibility and path stability.
- ☐ Confirm the host is compliant with baseline, image, or policy expectations.

8) Exit maintenance mode safely

- ☐ Confirm no unresolved alarms or critical service issues remain.



- ☐ Verify the host is ready to accept workloads.
- ☐ Exit maintenance mode only after health checks pass.
- ☐ Confirm at least one test workload can be powered on or migrated if your process requires validation.
- ☐ Check that VM placement behaves as expected after the host returns to service.

9) Closeout and documentation

- ☐ Record the final host state and post-patch build number.
- ☐ Note any exceptions, manual interventions, or delayed workloads.
- ☐ Capture reasons for any failed maintenance mode attempt.
- ☐ Document corrective actions needed before the next maintenance window.
- ☐ Update the change record with results and any follow-up tasks.

Quick pass/fail checklist

Use this short version when you need a rapid go/no-go decision.

- ☐ Cluster has enough spare capacity.
- ☐ VM evacuation is expected to complete cleanly.
- ☐ Storage access is consistent on remaining hosts.
- ☐ Network configuration is stable and portable.
- ☐ No pinned, special, or exception workloads block evacuation.
- ☐ Host enters maintenance mode without manual workarounds.
- ☐ Patch applies successfully and host reboots cleanly.
- ☐ Host passes health, storage, network, and compliance checks.
- ☐ Host exits maintenance mode only after validation is complete.



Operator reminder

Maintenance mode is not just a prerequisite for patching. It is proof that the cluster can safely absorb the host's workloads and return the host to production without hidden risk.

If a host will not enter maintenance mode, treat that as a finding to investigate, not a step to bypass.