



## CHECKLIST

# Shielded VM Readiness Checklist for Hyper-V Workloads

A practical checklist to assess whether a Hyper-V workload is ready for Shielded VM protection, including prerequisites, operational impacts, recovery planning, and production rollout checks.

## Shielded VM Readiness Checklist for Hyper-V Workloads

Use this checklist to decide whether Shielded VM features are a good fit for a Hyper-V workload and to verify that the operational model is ready before production rollout.

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### 1) Workload fit and threat model

- ☐ The workload contains sensitive data, secrets, privileged code, or regulated information.
- ☐ The threat model includes host-level abuse, compromised fabric administration, or offline disk access.
- ☐ The main security concern is protection from the virtualization layer, not only network exposure.
- ☐ The business impact of unauthorized host-side inspection has been assessed.
- ☐ The workload is important enough to justify added operational complexity.

### Not a strong fit if:

- ☐ The VM is routine or low-risk and does not store sensitive content.



- ☐ The primary problem is only guest OS hardening or network isolation.
- ☐ Operators frequently depend on ad hoc host-side troubleshooting.
- ☐ The environment cannot support stricter change control and policy enforcement.

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## 2) Platform and trust prerequisites

- ☐ The Hyper-V environment supports the required Shielded VM capability.
- ☐ A trusted or guarded fabric model is available and documented.
- ☐ Attestation or equivalent trust validation is in place for host start decisions.
- ☐ Required key management or protection services are available and secured.
- ☐ The guest OS and VM configuration are supported for protected operation.
- ☐ Boot and security settings required by the workload are compatible with the protection model.
- ☐ Infrastructure ownership and responsibilities are clearly separated.

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## Validate before rollout:

- ☐ Confirm what state the host must prove before the VM can start.
- ☐ Confirm who can approve or modify fabric trust settings.
- ☐ Confirm where recovery keys, policies, and certificates are stored and who can access them.
- ☐ Confirm how trust failures are detected and escalated.

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## 3) Security boundary and access control

- ☐ Only approved operators can manage protected VM workflows.



- ☐ Fabric administrators do not have unrestricted access to guest secrets.
- ☐ Administrative roles are separated between virtualization, security, and application teams.
- ☐ Access to management tools is limited and audited.
- ☐ The process for making host or fabric changes is documented and controlled.
- ☐ The organization accepts that some host-level convenience will be intentionally removed.

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## Check for overexposure:

- ☐ No routine process depends on attaching guest disks directly from the host.
- ☐ No routine process depends on inspecting sensitive guest contents from the hypervisor.
- ☐ No undocumented backdoors exist for bypassing the protection model.

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## 4) Guest hardening and baseline controls

- ☐ Guest patching and maintenance are still part of the operating standard.
- ☐ Secure Boot is enabled where appropriate and validated as part of the VM baseline.
- ☐ Guest credentials, service accounts, and secrets are protected inside the VM.
- ☐ Logging, monitoring, and alerting are available from inside the guest.
- ☐ Network segmentation is still enforced for the workload.
- ☐ Least privilege applies inside the guest as well as in the fabric.
- ☐ The team understands that Shielded VM features do not replace guest hardening.

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## Reminder:

- ☐ Review whether network segmentation, VLAN design, and guest hardening are already sufficient for lower-risk workloads.



- ☐ Use Shielded VM protection only when the workload truly needs stronger protection against the host itself.

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## 5) Operational workflow readiness

- ☐ The team knows how the VM will be provisioned, started, paused, and recovered.
- ☐ Standard maintenance steps are documented for protected guests.
- ☐ Troubleshooting workflows rely on guest telemetry rather than host-side inspection.
- ☐ Change control is in place for fabric or policy updates that might affect VM startup.
- ☐ The operations team understands that ad hoc disk attachment may be blocked or restricted.
- ☐ The incident response process includes protected VM scenarios.
- ☐ The team knows what happens if attestation or trust checks fail.

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## Questions to answer:

- ☐ Who approves changes that affect guarded fabric trust?
- ☐ Who is allowed to troubleshoot the VM if the host cannot be used for inspection?
- ☐ What is the fallback path if the VM will not start due to a trust failure?
- ☐ How are support events handled without weakening the protection boundary?

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## 6) Backup, restore, and disaster recovery

- ☐ Backups are designed for protected guests, not just ordinary storage copies.
- ☐ Restore procedures have been tested end to end.
- ☐ The backup solution does not require casual host-side exposure of protected disks.



- ☐ Recovery keys, policies, and related dependencies are included in DR planning.
- ☐ The team understands how to restore the VM without breaking the protection model.
- ☐ Backup verification includes a test restore, not only a successful backup job.
- ☐ RPO and RTO expectations are realistic for a protected workload.

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## Test before production:

- ☐ Can the VM be restored to a trusted environment and start successfully?
- ☐ Can the team prove the restore without exposing protected contents?
- ☐ Can the workload be recovered after a fabric or attestation issue?
- ☐ Is the DR site prepared for the same trust requirements as production?

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## 7) Monitoring, audit, and evidence

- ☐ Audit logging covers administrative actions on the fabric and protected VM lifecycle.
- ☐ Security events from the guest are forwarded to a central logging platform.
- ☐ The team can tell whether a VM failed because of policy, trust, or configuration issues.
- ☐ Monitoring includes both availability and security-relevant signals.
- ☐ Evidence for compliance or internal review can be collected without breaking the model.
- ☐ Alerts exist for unexpected management changes or failed attestation events.

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## Minimum evidence to keep:

- ☐ VM protection scope and approval record.
- ☐ Attestation or trust validation results.



- ☐ Backup and restore test results.
- ☐ Incident response and exception procedures.
- ☐ Ownership and role separation documentation.

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## 8) Production readiness check

Before enabling production use, confirm all of the following:

- ☐ The workload clearly needs protection against host-side access.
- ☐ The platform prerequisites are met and tested.
- ☐ The security and operations teams agree on ownership boundaries.
- ☐ Recovery, backup, and incident handling have been tested.
- ☐ The support team understands the reduced host visibility model.
- ☐ The business accepts the trade-off between stronger protection and less administrative convenience.
- ☐ A pilot deployment succeeded with a noncritical sensitive workload.
- ☐ There is a documented rollback or exception path if needed.

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## 9) Go / no-go decision

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### Go if:

- ☐ The workload is sensitive enough to justify the control.
- ☐ The environment can support guarded or attested operations reliably.
- ☐ The team has tested backup, restore, and troubleshooting workflows.
- ☐ Roles, responsibilities, and audit requirements are clear.



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## No-go if:

- ☐ Operators still need frequent host-level inspection of the VM.
- ☐ The infrastructure cannot reliably prove trust before startup.
- ☐ Recovery has not been tested.
- ☐ The added complexity outweighs the security benefit.

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## 10) Final sign-off notes

- Workload name: \_\_\_\_\_
- Owner: \_\_\_\_\_
- Environment: \_\_\_\_\_
- Risk justification: \_\_\_\_\_
- Approved by: \_\_\_\_\_
- Date: \_\_\_\_\_

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## Summary statement

- ☐ Shielded VM protection is justified for this workload.
- ☐ The operational model can support the protection boundary.
- ☐ Production rollout may proceed.

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## Quick reminder



Shielded VM features are most valuable when the host and fabric are part of the threat model. They are not a substitute for guest hardening, network segmentation, or good operational discipline. They are a stronger boundary for workloads that must stay protected from infrastructure-level access.