



CHECKLIST

Ubuntu AppArmor and UFW Pre-Production Checklist

A practical checklist for validating AppArmor and UFW on Ubuntu before production rollout. Covers exposure review, profile mode checks, logging, testing, and rollback readiness.

Ubuntu AppArmor and UFW Pre-Production Checklist

Use this checklist to verify that Ubuntu host hardening with AppArmor and UFW is correctly configured, validated, and ready for production use.

1) Confirm the host's intended exposure

- ☐ List the services that should run on the host.
- ☐ Document which services must be reachable from the network.
- ☐ Document which services must remain local-only.
- ☐ Identify the trusted source networks for each exposed service.
- ☐ Record any temporary exceptions and their expiration date.
- ☐ Verify that the host is not exposing any unexpected listening ports.

Check:

- ☐ ss -tulpn reviewed
- ☐ Unexpected listeners investigated
- ☐ Only intended interfaces and ports are exposed



2) Validate UFW policy

- ☐ Confirm UFW is installed.
- ☐ Confirm UFW is enabled.
- ☐ Review the active rule set.
- ☐ Ensure inbound rules follow a default-deny posture unless a service requires access.
- ☐ Ensure only approved ports are open.
- ☐ Ensure source restrictions are applied where possible.
- ☐ Confirm administrative access is allowed only from trusted networks.
- ☐ Remove broad allow rules that were added for troubleshooting.
- ☐ Verify there are no duplicate or conflicting rules.

Check:

- ☐ `ufw status verbose` reviewed
- ☐ `ufw status numbered` reviewed
- ☐ Open ports match the approved service list
- ☐ Allow rules are as narrow as practical

3) Validate AppArmor enforcement

- ☐ Confirm AppArmor is installed and active.
- ☐ Identify which profiles are loaded for the workload.
- ☐ Verify whether each relevant profile is in enforce mode or complain mode.
- ☐ Confirm any critical service has an active profile if one is expected.
- ☐ Verify that unconfined services are understood and intentional.
- ☐ Check for profile changes introduced by package updates.
- ☐ Confirm the service does not rely on permissions outside its expected scope.



Check:

- ☐ aa-status reviewed
- ☐ Loaded profiles documented
- ☐ Enforcement mode confirmed
- ☐ Unconfined processes reviewed

4) Test normal workload behavior

- ☐ Start or restart the service in a test window.
- ☐ Exercise all intended user paths.
- ☐ Verify inbound connectivity works only from approved sources.
- ☐ Verify the application can read required configuration and content files.
- ☐ Verify the application can write only to approved directories.
- ☐ Verify approved helper binaries and child processes still function.
- ☐ Verify expected logs are created.
- ☐ Verify the service behaves normally under representative load.

Check:

- ☐ Functional testing completed
- ☐ No unexpected failures observed
- ☐ No hidden dependency on broad local privileges

5) Review logs for denials and anomalies

- ☐ Review application logs for permission-related failures.
- ☐ Review kernel audit logs for AppArmor denials.
- ☐ Review firewall logs if logging is enabled.



- ☐ Correlate failures with test actions.
- ☐ Distinguish policy denials from application bugs.
- ☐ Confirm that any denial is expected and acceptable.

Check:

- ☐ No unexpected AppArmor denials during normal operation
- ☐ No blocked traffic from legitimate clients
- ☐ No false sense of health caused by local-only success

6) Confirm rollback and recovery options

- ☐ Document the exact commands or process for reverting UFW changes.
- ☐ Document how to relax or disable a problematic AppArmor profile.
- ☐ Ensure console or out-of-band access is available before restricting remote access.
- ☐ Save a copy of known-good firewall rules.
- ☐ Save a copy of known-good AppArmor profile changes.
- ☐ Confirm the team knows who approves emergency rollback.

Check:

- ☐ Rollback steps tested or clearly documented
- ☐ Recovery path available if remote access is blocked
- ☐ Backup of prior state stored securely

7) Production readiness decision

Mark the host ready only if all of the following are true:

- ☐ The service exposure is fully understood.
- ☐ UFW rules match the intended network paths.



- ☐ AppArmor profiles are loaded and in the expected mode.
- ☐ Normal workload tests passed.
- ☐ Denials were reviewed and explained.
- ☐ A rollback plan exists.
- ☐ Monitoring or alerting is in place for future denials and blocked access.

Go / No-Go:

- ☐ GO ? controls are validated and ready for production
- ☐ NO-GO ? investigate gaps before rollout

8) Quick verification commands

Use these as a final review before production:

9) Final sign-off notes

- Service name: _____
- Owner: _____
- Environment: _____
- Date: _____
- Reviewer: _____
- Notes: _____
- _____
- _____

Summary



AppArmor and UFW are complementary controls:

- UFW reduces exposure by controlling network reachability.
- AppArmor reduces impact by restricting what the process can do locally.

Use both together for a practical Ubuntu hardening baseline, then validate behavior before production use.