



CHECKLIST

Windows Server 2022 Firewall Rules Secure Access Checklist

A practical checklist for planning, validating, and reviewing Windows Server 2022 firewall rules before production use.

Windows Server 2022 Firewall Rules for Secure Access

Production Readiness Checklist

Use this checklist to plan, validate, and review firewall rules on Windows Server 2022 before you expose a service to production traffic.

1) Define the business need

- ☐ Identify the exact service that must be reachable.
- ☐ Confirm why the service needs network access.
- ☐ Document the business owner for the exception.
- ☐ Confirm whether the access is temporary or permanent.
- ☐ Record the review date for the rule.

2) Identify the required traffic



- ☐ Determine whether the rule is inbound or outbound.
- ☐ Confirm the protocol required: TCP, UDP, or ICMP.
- ☐ Identify the local port or ports in use.
- ☐ Confirm whether the rule should be port-based or program-based.
- ☐ Verify the service or executable path if using a program rule.
- ☐ Check whether the application uses additional helper services or ports.

3) Confirm the network profile

- ☐ Check the active profile on the server: Domain, Private, or Public.
- ☐ Verify the rule applies only to the profiles that need it.
- ☐ Avoid enabling the rule on Public unless there is a clear business need.
- ☐ Confirm the server will not move to a less trusted profile unexpectedly.

4) Scope the allowed sources

- ☐ List the approved source IP addresses or subnets.
- ☐ Restrict remote IP scope to the smallest practical set.
- ☐ Prefer management subnets, jump hosts, load balancers, or application tiers over broad corporate ranges.
- ☐ Confirm any NAT, proxy, or relay systems that will appear as the source.
- ☐ Avoid ?Any? source unless the service is intentionally public.

5) Choose the least risky rule pattern

- ☐ Use the narrowest practical allow rule.
- ☐ Prefer deny-by-default with explicit exceptions.
- ☐ Choose a program rule only when the executable path is stable and well understood.



- ☐ Choose a port rule when the service is tied to a fixed port and needs simpler troubleshooting.
- ☐ Avoid overlapping rules that make the effective exposure difficult to understand.

6) Create or adjust the rule

- ☐ Name the rule clearly and consistently.
- ☐ Include the server role or service name in the rule name.
- ☐ Add a description with the justification and owner.
- ☐ Apply the correct direction, protocol, port, and action.
- ☐ Set the approved remote IP scope.
- ☐ Bind the rule to the correct profile(s).
- ☐ Confirm the rule is not broader than intended.

7) Check for conflicting policy or precedence

- ☐ Verify whether the rule is local or centrally managed.
- ☐ Check for existing rules that overlap or override the new rule.
- ☐ Review whether Group Policy or another central policy will supersede local settings.
- ☐ Confirm the final effective state, not just the rule entry itself.

8) Validate the service state

- ☐ Confirm the service is running.
- ☐ Verify the server is listening on the expected port.
- ☐ Check that the service is bound to the intended interface if relevant.
- ☐ Confirm there are no application-level errors preventing access.
- ☐ Validate any dependent services or certificates required for secure operation.



9) Test allowed access

- ☐ Test connectivity from an approved source.
- ☐ Confirm the intended protocol succeeds.
- ☐ Verify the expected response from the service.
- ☐ Check that the test behaves the same after a service restart.
- ☐ Repeat the test from each approved source category if needed.

10) Test denied access

- ☐ Test connectivity from a disallowed source.
- ☐ Confirm the connection is blocked as expected.
- ☐ Verify that only the intended source ranges can connect.
- ☐ Check for accidental exposure on alternate profiles or alternate ports.

11) Review logging and monitoring

- ☐ Confirm firewall logging is enabled if required by policy.
- ☐ Verify blocked and allowed traffic can be reviewed later.
- ☐ Check whether the service has its own access logs.
- ☐ Make sure alerts exist for unexpected exposure or access failures.

12) Document the change

- ☐ Record the change request or ticket number.
- ☐ Document the source addresses, ports, and profiles allowed.
- ☐ Note the reason the exception exists.



- ☐ Record the validation steps performed.
- ☐ Include rollback steps in case the rule must be removed.
- ☐ Save the date of implementation and the next review date.

13) Production sign-off check

- ☐ The rule is limited to the required service only.
- ☐ The rule is limited to approved sources only.
- ☐ The rule applies only to the required profile(s).
- ☐ The service works from approved sources.
- ☐ The service is blocked from unapproved sources.
- ☐ The rule is documented and assigned to an owner.
- ☐ The exposure level is acceptable for production.

Quick decision checks

Use these questions before you approve a rule:

- ☐ Can I explain exactly why this rule exists?
- ☐ Do I know which system or subnet needs access?
- ☐ Do I know which port, protocol, or program is required?
- ☐ Have I limited the rule to the correct firewall profile?
- ☐ Have I tested both the allow path and the deny path?
- ☐ Would this rule still make sense in six months?

Safe default reminders



- ☐ Deny by default and allow only what is required.
- ☐ Avoid broad source ranges when a smaller scope works.
- ☐ Avoid Public profile exposure unless it is intentional.
- ☐ Treat every exception as a risk decision.
- ☐ Revisit rules regularly and remove anything no longer needed.

Example rule review summary

Service: Remote administration

Allowed from: Jump host subnet only

Protocol/Port: TCP 3389

Profiles: Domain only

Justification: Administrative access for operations staff

Validation: Connection succeeded from jump host; blocked from user subnet

Review date: _____

Final approval

Before production use, confirm:

- ☐ The firewall rule is minimal.
- ☐ The scope is correct.
- ☐ The profile is correct.
- ☐ The service is validated.
- ☐ The denial behavior is confirmed.
- ☐ The rule is documented and approved.



Approved by: _____

Date: _____