

Your Firewall, Explained: What It Does, What It Misses, What to Check



You can't see it.
You can't touch it.
But right now, it's
standing between
your business and
thousands of
online threats.

Every email you
send, every
website you visit,
every file you
download passes
through it.

**Without it, your
network is
basically a front
door left
unlocked.**

**Welcome to Firewall
101:
Business protection,
explained for
Chicagoland
decision makers.**

So, what is a firewall?

Think of your business network like an office building.

Your people, devices, files, and systems are inside. The internet is everything outside—customers, partners, cloud apps... and plenty of strangers you wouldn't invite in. A firewall sits at the entrance. It decides what traffic is allowed to pass between your network and the internet—and what gets stopped at the door.

When something looks normal (like an employee signing into a trusted business app), it lets it through. When something looks risky (like an unexpected connection request or a suspicious download), it blocks it and records what happened.

What it is: a gatekeeper that filters and logs network traffic using rules. What it isn't: a magic shield. A firewall can't prevent every mistake, stop every scam, or replace smart habits. If someone clicks the wrong link or reuses a weak password, trouble can still find a way in. That's why a firewall is the first layer—not the only layer.

How it works

Data moves in and out of your network all day.

Your firewall checks that traffic against a set of rules (often called **policies**) and then makes a decision:

Allow it. Block it. Log it.

Those rules are built around what your business actually needs:. For example:

- “Let staff reach approved cloud services.”
- “Block downloads that match known malicious patterns.”
- “Deny unexpected inbound connections from the outside.”

So instead of your network accepting everything by default, the firewall acts like a bouncer with a list.

One important point for leaders: **those rules aren't 'set once and done.'**

Do you already have a firewall?

Almost certainly—at least a basic one.

If your business uses a router for internet and Wi-Fi, there's usually a built-in firewall running in the background. That's a good start, but it's often designed for **home-level simplicity**, not business-level risk.

Here's the difference in plain terms:

- **Basic router firewall:** blocks some obvious threats, with limited visibility and limited control.
- **Business-grade firewall:** gives stronger filtering, clearer reporting, more flexible rules, and the ability to keep protection current as threats evolve.

The real question isn't "Do we have a firewall?"

It's:

Is it business-grade, properly configured, kept up to date, and actively monitored?

Why firewalls matter more than you think

If your firewall is doing its job, you won't notice it.

That's the point.

All day long, automated threats scan the internet looking for easy targets—unpatched devices, exposed services, weak remote access, "forgotten" settings. A firewall helps turn your business from easy to *harder than it's worth*.

Without a properly set-up firewall, the risk isn't just "IT problems." It's business problems:

- **Downtime** when systems slow, crash, or get taken offline
- **Data exposure** (customer info, employee records, internal files)
- **Financial loss** from cleanup, disruption, and missed work
- **Reputation damage** when clients lose trust
- **Ransomware** that locks access to critical files and systems



The different types of firewalls

Not all firewalls are built the same.

Some are basic and fast. Others are smarter—able to understand what’s happening on your network in real time and stop threats that don’t look “obvious” at first glance.

Here’s the short buyer-friendly breakdown:



Packet filtering firewalls

The simplest type. They check traffic in small chunks and allow or block it based on basic details (where it came from, where it’s going, what it’s trying to do).

Best for: low-risk environments or very small networks.



Stateful inspection firewalls

A step up. Instead of judging each packet alone, they track the whole “conversation” between devices and can spot behavior that doesn’t match a normal connection.

Best for: many small and mid-sized businesses that need reliable baseline protection.



Next-generation firewalls

These go beyond the basics with deeper inspection, intrusion prevention, and more awareness of specific applications and behaviors. They're built for modern threats, not yesterday's.

Best for: organizations that want stronger visibility and more proactive protection.



Managed firewalls

This isn't a "type" of technology as much as a way of running it. A partner handles setup, updates, tuning, and monitoring—so the firewall doesn't become a forgotten box in a closet.

Best for: lean teams that want strong protection without owning the day-to-day workload.



Cloud firewalls

Same core job, but delivered through the cloud. This can help protect users and devices no matter where they work—office, home, or on the road.

Best for: remote teams, multiple locations, and cloud-heavy operations.

**Different names,
same goal:**

**Stop the dangerous
stuff before it reaches
your systems—and
keep legitimate work
moving.**

Web filtering is just as important

Even with a strong firewall, businesses still get hit

Why? Because not every threat *breaks in*.

Sometimes it gets *walked in*—one click, one quick download, one convincing fake login page.

That's where web filtering earns its keep.

A web filter controls which sites people can reach while connected to your business network. It sits between your team and the wider internet and blocks risky destinations before they load.

A good web filter can:

- Block sites known for spreading malware
- Stop lookalike login pages used for **phishing**
- Prevent downloads from shady sources
- Optionally limit distractions like gambling, adult content, or other high-risk categories (based on your policy)

Think of it as guardrails, not handcuffs. Done well, it doesn't slow people down—it helps them avoid the digital equivalent of a dark alley.

It also supports two outcomes leaders care about:

- **Security:** fewer “one mistake turns into a crisis” moments.
- **Productivity:** fewer time sinks and less risky browsing on company time.

Firewall + web filtering is a practical pairing:

- The firewall blocks threats trying to force their way in
- The web filter helps prevent your team from stepping into danger online

Together, they cover both sides of the risk—external attacks and everyday human moments.



Common firewall mistakes

Most businesses do have a firewall.

The issue is that many aren't getting the protection they think they are.

Firewalls don't win by being plugged in. They win through setup, updates, and oversight. Here are the mistakes we see most often:



Using default settings

Factory settings are meant to work “out of the box,” not to fit your business. They can leave unnecessary access open—or block the wrong things—because they weren't designed around your systems, users, and risk



Setting it and forgetting it

Threats evolve. Your tools evolve. Your firewall rules need to evolve too. If it hasn't been reviewed recently, you can end up with outdated policies that create gaps—or slow everyone down.



Nobody is watching alerts or logs

A firewall can flag unusual behavior, but it can't force someone to read the warnings. If alerts are ignored, the firewall becomes expensive background noise—right up until something breaks.



No regular review or testing

New software, new staff, new locations—each change affects network traffic. A quick quarterly review can catch outdated rules and risky exceptions before they become real incidents.



Remote workers aren't covered

If people work from home or on the road, their traffic may never pass through your office firewall. That creates a “security perimeter” with holes in it—especially when users connect through unsecured Wi-Fi.

None of these are rare. Most organizations have tripped over one or two.

The win is noticing the weak spots early—while fixes are simple and inexpensive.

How to choose the right firewall for your business

Choosing a firewall isn't about buying "the best." It's about matching protection to how your business actually runs—and making sure someone owns the ongoing care and feeding.

Here's a simple decision path leaders can use.

1

Start with how your team works

Ask:

- How many people and devices connect each day?
- Is everyone in one office, or spread across multiple sites?
- How many people work remotely or travel?
- Which systems are mission-critical (email, line-of-business apps, cloud tools)?

2

Identify what you're protecting

Not all data carries the same risk. Think in terms of impact:

- Sensitive records (patient, student, financial, employee)
- Payment processing
- Operational systems you can't afford to lose access to

If you follow a security framework or regulatory expectations (for example HIPAA, FERPA, PCI-DSS, NIST CSF, SOC 2, HITRUST, CMMC, FedRAMP, or SOX), you'll also want controls you can document and review—not just "we think it's fine."

3

Decide who maintains it

This is where many choices succeed or fail.

A firewall needs:

- Correct setup and rule design
- Ongoing updates and patches
- Monitoring and alert response
- Periodic tuning as the business changes

If you don't have the time or internal resources to stay on top of that, the smarter move is often choosing a setup that can be actively managed—so your security doesn't slowly drift out of date.

The right firewall is the one that protects your business and fits your reality: your team, your budget, and your ability to maintain it.

Mini assets

You don't need a technical deep dive to spot whether your firewall and web filtering are being treated like "set it and forget it" tools.



Firewall & Web Filter Health Check (10 questions)

1. When was the last rules/policy review?
2. Who owns updates and patches—and how often do they happen?
3. Are alerts enabled, and who actually sees them?
4. Do we have clear reporting (blocked threats, unusual activity, trends)?
5. Is remote worker traffic protected the same way as office traffic?
6. Are old access rules removed when tools or staff change?
7. Do we know what's allowed in (and why)?
8. Do we know what's being blocked (and whether it's causing workarounds)?
9. Is web filtering tuned by role (not one-size-fits-all)?
10. If something looks suspicious at 2 a.m., who responds?



Quarterly Review Checklist (15 minutes)

- Confirm updates are current and scheduled
- Review the top alerts/events (what's being blocked most)
- Remove outdated rules and "temporary" exceptions
- Verify remote access paths and protections
- Re-check web filtering categories and role-based access
- Document what changed and why (so the next review is easier)
- If you can answer these confidently, you're already ahead of most small and midsize organizations.

How we can help

If you're thinking, "We probably have a firewall... but I'm not sure it's being managed," you're not alone.

This is where a quick, structured review pays off.

We can help you:

- Confirm what protection you actually have (firewall + web filtering)
- Review key settings, rules, updates, and alerting
- Check remote-worker coverage and common exposure points
- Produce a short, clear summary of risks and next steps

If you want a second set of eyes from a local managed services team serving **Greater Chicago**, reach out and we'll start with a practical firewall and web filtering checkup.

Get in touch.

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