

Apache Troubleshooting Quick Guide

✓ Common Issues & Fixes

- **Apache won't start**

- Check if another service is using port 80/443:
`sudo lsof -i :80`
Stop conflicting service or change Apache port in `httpd.conf` / `ports.conf`.

- **Permission denied errors**

- Ensure correct ownership:
`sudo chown -R www-data:www-data /var/www/html`
Adjust file permissions:
`sudo chmod -R 755 /var/www/html`.

- **Configuration errors**

- Test config before restart:
`apachectl configtest`
Look for syntax errors in `/etc/apache2/apache2.conf` or
`/etc/httpd/conf/httpd.conf`.

- **Website not loading**

- Check logs:
`tail -f /var/log/apache2/error.log`
Verify DNS and firewall rules.

- **SSL/TLS issues**

- Confirm certificate paths in `default-ssl.conf`.
- Reload Apache after renewal:
`sudo systemctl reload apache2`.

🔧 Useful Commands

- Restart Apache:
`sudo systemctl restart apache2` (Debian/Ubuntu)
`sudo systemctl restart httpd` (CentOS/RHEL)
- Check status:
`systemctl status apache2`

- Enable modules:
sudo a2enmod rewrite
sudo systemctl restart apache2

📁 Key Log Locations

- Error log: /var/log/apache2/error.log
- Access log: /var/log/apache2/access.log
- Config files: /etc/apache2/ (Debian/Ubuntu), /etc/httpd/ (CentOS/RHEL)

🚀 Quick Tips

- Always run apachectl configtest before restarting.
- Use journalctl -xe for system-level errors.
- Keep backups of config files before editing.
- Monitor with htop or top for resource usage.

