

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.

