

# NGINX Cheat Sheet

## Server Block Structure

```
# Define a server block (listens on port 80 by default for HTTP)
server {
    listen [port]; # Optional, default is 80
    server_name example.com www.example.com;
    root /path/to/root;
    index index.html;
}
```

## Location Block

```
# Define location blocks for specific path handling
location / {
    # Configuration for the root location
}

location /static/ {
    # Configuration for the "/static/" path
}
```

## Listen on Port

```
server {
    # Standard HTTP Protocol
    listen 80;

    # Standard HTTPS Protocol
    listen 443 ssl;

    # Listen on 80 using IPv6
    listen [::]:80;

    # Listen only on using IPv6
```

```
listen [::]:80 ipv6only=on;
}
```

## Redirects

```
# Redirects www to non-www
server {
    listen 80;
    server_name www.example.com;
    return 301 http://example.com$request_uri;
}
```

## Domain Name

```
server {
    # Listen to yourdomain.com
    server_name yourdomain.com;

    # Listen to multiple domains
    server_name yourdomain.com www.yourdomain.com;

    # Listen to all domains
    server_name *.yourdomain.com;

    # Listen to all top-level domains
    server_name yourdomain.*;

    # Listen to unspecified Hostname (Listens to IP address itself)
    server_name "";
}
```

## HTTPS Configuration

```
# Enable SSL for secure connections
server {
    listen 443 ssl;
    server_name example.com;

    # SSL certificates from a trusted CA
    ssl_certificate /path/to/certificate.crt;
```

```
ssl_certificate_key /path/to/private.key;

# Configure appropriate cipher suites
ssl_ciphers HIGH:!aNULL:!MD5;
# Additional SSL configurations go here
}
```

## Reverse Proxy

```
server {
    # Set up a reverse proxy for a backend application
    location /app/ {
        proxy_pass http://backend-server;
        proxy_set_header Host $host;
        proxy_set_header X-Real-IP $remote_addr;
        proxy_set_header X-Forwarded-For $proxy_add_x_forwarded_for;
    }
}
```

## Basic Authentication

```
server {
    # Set up basic authentication
    location /secure/ {
        auth_basic "Restricted";
        auth_basic_user_file /path/to/.htpasswd;
    }
}
```

## Load Balancing

```
# Configure load balancing with round-robin method
upstream backend {
    server backend1.example.com;
```

```
server backend2.example.com;
}

server {
    location / {
        proxy_pass http://backend;
    }
}
```

## Custom Error Page

```
# Define custom error pages for various status code
error_page 404 /404.html;
location = /404.html {
    root /path/to/error/pages;
}
```

## Gzip Compression

```
# Enable Gzip compression for text-based content
gzip on;
gzip_types text/plain text/css application/javascript text/xml;
```

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