Setting Up Multiple Apache HTTP Server Instances

This document outlines the steps necessary to set up multiple instances of the Apache HTTP Server, each serving different development environments for a sample project (e.g., griffin-portal/dev1 to griffin-portal/dev6).

1. Install Apache HTTP Server: Ensure that Apache HTTP Server is installed on your server. If not, download and install it from the official Apache website.

2. Create Instance Directories: For each Apache instance, create a separate directory. This is crucial for managing configurations and logs for each environment.

3. Copy Configuration Files: Copy the Apache configuration files (usually found in the conf/ directory) to each instance’s directory.

4. Configure Each Instance: Edit the httpd.conf file in each instance’s directory. Set unique Listen directives for each instance to use different ports.

5. Set Up Virtual Hosts: In each instance’s httpd.conf file, set up VirtualHosts for each URL (e.g., griffin-portal/dev1 to griffin-portal/dev6). Ensure each VirtualHost directive references the correct DocumentRoot and ServerName.

6. Configure Hosts File: Modify the hosts file on your server to map each development environment URL to the local IP address.

7. Start Each Instance: Use the apachectl or httpd command to start each Apache instance, specifying the configuration file of each instance.

8. Test Your Instances: Access each URL in a web browser to ensure that the correct content is being served from each Apache instance.

9. Monitor and Optimize: Regularly monitor the performance of each instance and optimize configurations as needed.

Note: This setup is ideal for development and testing environments. For production environments, consider additional security and performance optimizations.