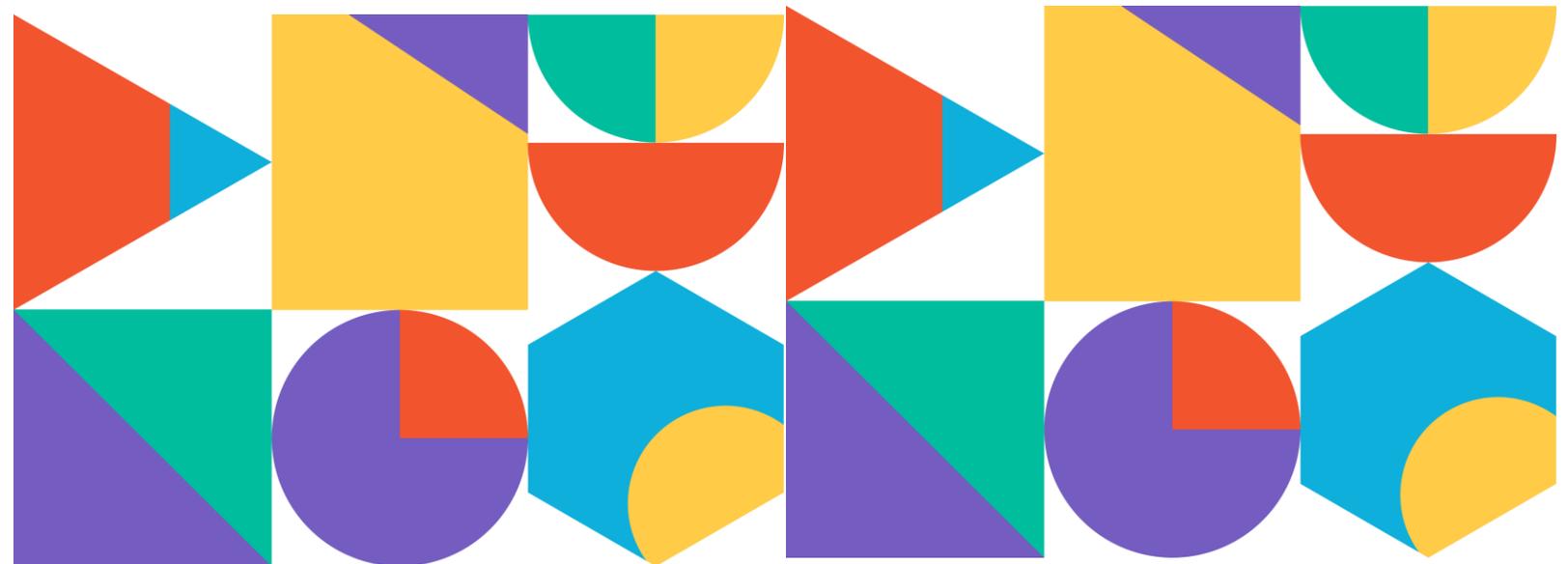




Run Pyramid under a web path instead of the root

Configuration for Pyramid Administrators

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Background

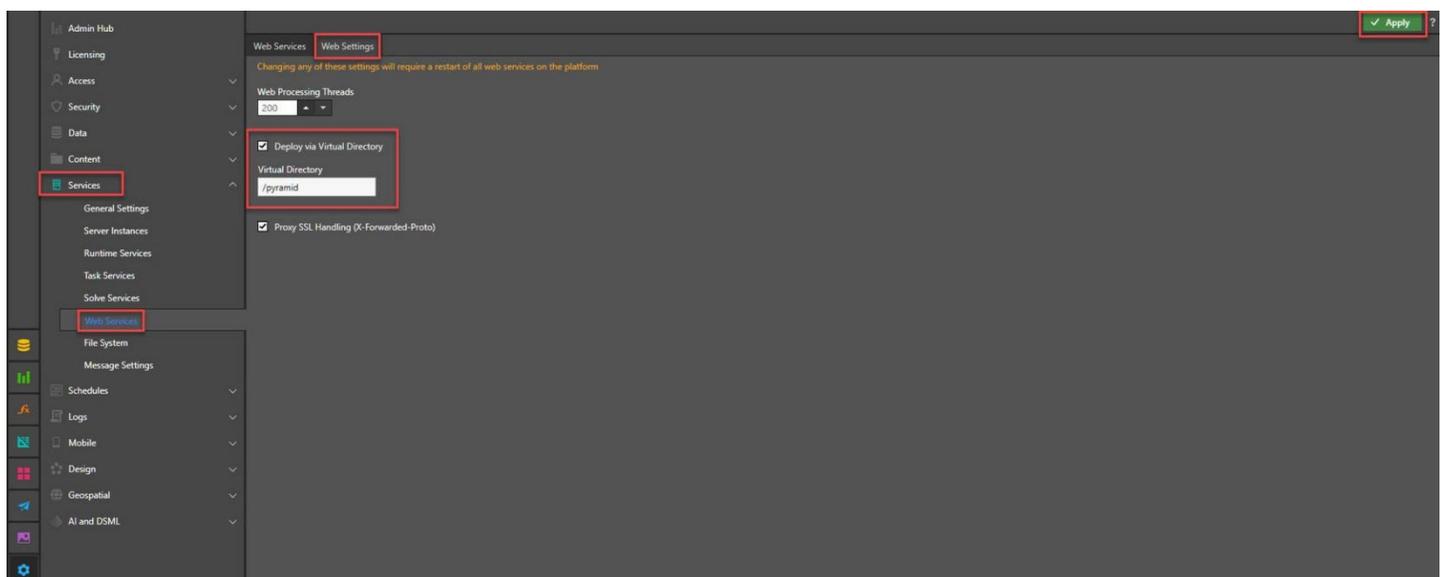
Running Pyramid from a path is sometimes required (e.g., <https://mysite.com/pyramid>) instead of the root (e.g. <https://mysite.com>). In embedding scenarios, this allows Pyramid to run under the same web domain instead of a subdomain - facilitating easier integrations and simplified authentication/security operations.

Prerequisites

- This applies **only** to Pyramid **2023.16.083 / 2024.01.013** and later.
- Earlier versions **do not support this feature**.

1. Configuring Pyramid to Use a Virtual Directory

1. Log in to **Pyramid Admin**.
2. Navigate to:
Services → **Web Services** → **Web Settings**.
3. Enable "**Deploy via Virtual Directory**".
4. Set your desired virtual directory/path name, e.g., **/pyramid**.
5. Click **Apply** and restart all Pyramid web servers.



Now, users can access Pyramid at:

<http://localhost:8181/pyramid>

Important Notes:

Pyramid may **still be accessible at the root (/)** by default. This is because Pyramid assumes that a **load balancer or reverse proxy** will manage access to /pyramid. If you only want users to access Pyramid at /pyramid, configure your **load balancer** accordingly and block access.

The next sections explain how to facilitate the virtual path for Pyramid using various load balancing / reverse proxy technologies.

2. Configuring AWS Load Balancer to Serve Pyramid Under /pyramid

(Assumes you already have an AWS Load Balancer set up. If not, see [this guide](#) for setup instructions.)

Steps:

1. Go to **AWS Console** → **EC2** → **Load Balancers**.
2. Select the **Load Balancer** that will serve Pyramid.
3. Click "**Add Rule**".

Rule Configuration:

- **Name:** pyramid
- **Condition Type:** Path
- **Path:** /pyramid* (use the path you setup for the virtual directory in the Pyramid admin)
- **Action:** Forward to target group
- **Target Group:** Choose the group that points to your Pyramid web servers (port 8181).

Setting Rule Priority

- The rule **must have a lower number** (higher priority) than any rule that routes traffic to /.
- Example: If there is a rule for / that sends traffic to another website, your /pyramid rule should have a **lower number than that rule**.
- This ensures /pyramid traffic is forwarded correctly and doesn't get overridden.

Example Rule Evaluation Order:

Priority	Path Condition	Target Group
1	/pyramid*	Pyramid web server
2	/ (root)	Main website

Now, users browsing to /pyramid will be forwarded to Pyramid **before** the root rule is applied.

3. Configuring IIS to Serve Pyramid Under to Serve Pyramid Under /pyramid

Step 1: Open IIS Manager

1. Open **IIS Manager** (inetmgr from the Run dialog).
2. In the **Connections** panel, click on your site (e.g., Default Web Site).

Step 2: Configure URL Rewrite Rules

1. Double-click "**URL Rewrite**" in the middle panel.
2. Click "**Add Rules...**" in the right panel.
3. Select "**Blank Rule**" under **Inbound Rules** and click **OK**.

Step 2.1: Create Rewrite Rule for /pyramid

1. Enter "**Rewrite Pyramid Path**" as the rule name.
2. Under **Conditions**, click "**Match URL**":
 - Set **Requested URL** to **Matches the Pattern**
 - Use the **Regular Expressions** option.
 - In the **Pattern** field, enter:
`^pyramid(/.)*?$`
Copy
3. Scroll to **Action** and set:
 - **Action Type**: Rewrite
 - **Rewrite URL**:
`http://localhost:8181/pyramid{R:1}`
Copy
 - **Append Query String**: Yes
 - **Stop Processing of Subsequent Rules**: Yes
4. Click **Apply** in the right panel.

Step 3: Restart IIS and Test

1. Click **Restart** on the right panel under **Manage Server**.
2. Open a browser and visit:
`http://yourserver/pyramid`
Copy

It should correctly forward to <http://localhost:8181/pyramid>.

Access the main site at:

<http://yourserver/>

Copy

Any request that is **not for /pyramid** will automatically be handled by the main site, so no additional rules are needed

Now, Pyramid should be accessible at /pyramid via IIS.

When browsing to the main site i.e mysite.com you will get the site

3. Configuring Nginx to Serve Pyramid Under /pyramid

This process is identical to the one described [here](#); however, in step 3, use the below configuration instead

```
server {  
    listen 443 ssl;  
    ssl_certificate /etc/nginx/certs/chain.pem;  
    ssl_certificate_key /etc/nginx/certs/privkey.pem;  
    server_name yourServername.mycompany.com;  
    access_log /var/log/nginx/nginx.vhost.access.log;  
    error_log /var/log/nginx/nginx.vhost.error.log;  
    client_max_body_size 300M;  
    location / {  
proxy_pass http://localhost:8181/pyramid;  
    }  
    location /events {  
proxy_pass http://localhost:8181/pyramid/events;  
        proxy_http_version 1.1;  
        proxy_set_header Upgrade $http_upgrade;  
        proxy_set_header Connection "upgrade";  
    }  
}
```