

# IntraMaps - How to create a Planet Basemap

Users require an account to use the Planet Basemaps. Log in from <https://www.planet.com/>

Logging in takes you to the map page



Go to account page - <https://www.planet.com/account/#/> to get API key. This is required for the tile api:



Tile URL is on this page: <https://developers.planet.com/docs/api/tile-services/>

For IntraMaps use the WMTS

https://tiles0.planet.com/basemaps/v1/planet-tiles/global\_monthly\_2016\_05\_mosaic/gmap/0/0/0.png?api\_k

Wt  
Ser  
XY:  
Wt

## WMTS Basemap Tile Service

The Planet WMTS Basemap Service allows users to access a listing of Planet's entire catalog of basemaps.

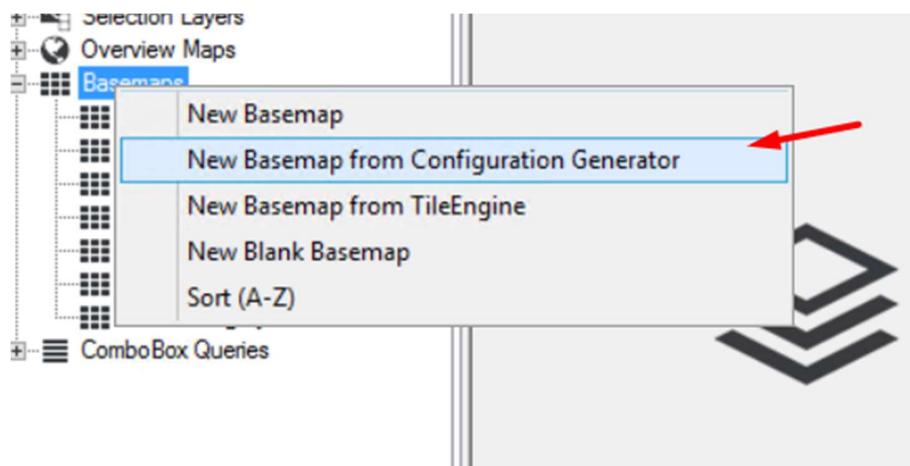
WMTS Catalog Access Request Structure

[https://api.planet.com/basemaps/v1/mosaics/wmts?api\\_key={api-key}](https://api.planet.com/basemaps/v1/mosaics/wmts?api_key={api-key})

## XYZ Protocol Overview

The [XYZ protocol](#) describes how a mapping client (often from within a browser) can access tiled imagery. This is the same protocol that [Planet Explorer](#) uses to display tiled imagery. It provide a pyramid of tiles at 16 zoom levels so that it can efficiently be displayed in web browsers. As with other XYZ tiling services, Planet XYZ tiles have these attributes:

Use this option in IntraMaps



These examples were done in IntraMaps version 23A

1. For WMTS you can simply add the URL to the URL field and click “Fetch” to generate the basemap details then “Generate Basemap Test”. Only issue I found was that one of the provided URLs had “?group” at the end which needed to be dropped before the basemap would work:

New Basemap from Basemap Configuration Generator ✕

Name

Use Proxy Authentication

Server  Port

User Name  Password

Only use Proxy Authentication if you are having issues connecting to MapManager and if you have a proxy server configured on your network

Type

URL

Token

Token Http Referer

Layer

TileMatrixSet

Style

Format

Basemap Configuration

```
{
  "layers": [
    {
      "type": "wmts",
      "name": "SkySatCollect:20240103_032505_ssc7_u0001 - aad7fa12-0ccb-4f88-95a3-d6f00f73b5d5",
      "url": "https://tiles.planet.com/data/v1/folder/tiles/public/folder-d357ff8c-c3a2-4f49-98f9-23765eb04c51/aad7fa12-0ccb-4f88-95a3-d6f00f73b5d5/{TileMatrix}/{TileCol}/{TileRow}.png",
      "layer": "aad7fa12-0ccb-4f88-95a3-d6f00f73b5d5",
      "matrixSet": "GoogleMapsCompatible20",
      "requestEncoding": "REST",
      "resolutions": [
        156543.03392804103,
        78271.516964020513,
        39135.758482010111,
        19567.879241005197,
        9783.9396205025987,
        4891.96981025116,
        2445.9849051257197
      ]
    }
  ]
}
```

- Setting up the XYZ basemap using the provided URLs required a little tweaking, for example this is URL provided: [https://tiles1.planet.com/data/v1/PSScene/20240119\\_234747\\_05\\_24c2/{z}/{x}/{y}.png?api\\_key=<api key>](https://tiles1.planet.com/data/v1/PSScene/20240119_234747_05_24c2/{z}/{x}/{y}.png?api_key=<api key>). In order for Intramaps to correctly display the basemap requires the URL to be edited to include a '?' in front of each z, x and y in brackets. This results in the following URL:

“https://tiles1.planet.com/data/v1/PSScene/20240119\_234747\_05\_24c2/{z}/{x}/{y}.png?api\_key=<api key>”.

1. Putting this URL into the Basemap Configuration Generator then allows you to generate the basemap text, however this doesn't assign a projection, and assigns default zoom levels and tile sizes. Recommend loading the XYZ into QGIS first to check these details:

New Basemap from Basemap Configuration Generator

Name  
XYZ Example

Use Proxy Authentication

Server  Port

User Name  Password

Only use Proxy Authentication if you are having issues connecting to MapManager and if you have a proxy server configured on your network

Type XYZ

URL https://tiles1.planet.com/data/v1/PSScene/20240119\_234747\_05\_24c2/{z}/{x}/{y}.png?api\_key=PI

Projection 3857

Zoom Levels 18

Tile Size

Generate Basemap Text

Basemap Configuration

```
{
  "layers": [
    {
      "type": "xyz",
      "name": "XYZ Layer",
      "uri": [
        "https://tiles1.planet.com/data/v1/PSScene/20240119_234747_05_24c2/{z}/{x}/{y}.png?
        api_key=PI"
      ],
      "projection": "3857",
      "options": {
        "numZoomLevels": 18,
        "tileSize": 256
      }
    }
  ]
}
```

OK Cancel

Rates

Basemaps

Cemetery

Waste Collection

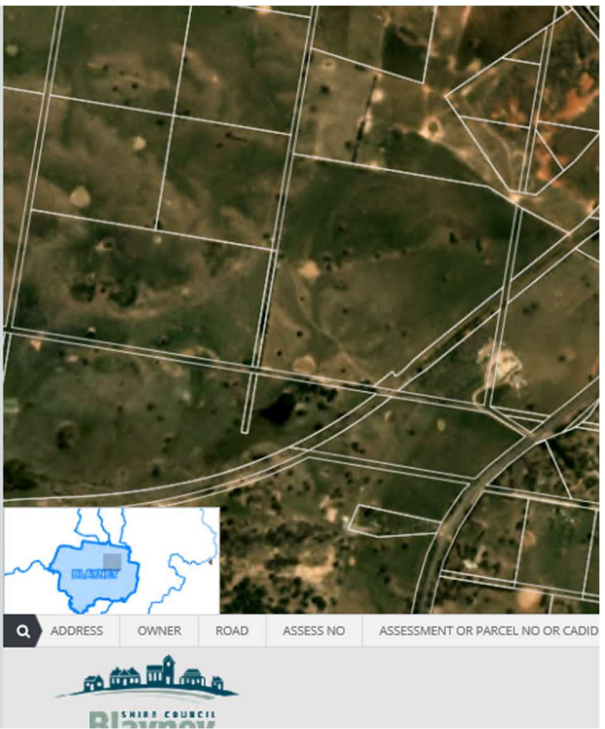
AssetFinda

LAYERS

- Az Lot Text
- Az Road Text
- Az Suburb Text
- Boundaries
- Easement
- Contour
- Crown Land
- State Forest
- Imagery (Latest)
- Imagery (Historical)
- Land Features

BASEMAPS

- Blank Basemap
- Google Map
- Google Aerial
- Planet Imagery



SHIRE COUNCIL  
Riverton

ADDRESS OWNER ROAD ASSESS NO ASSESSMENT OR PARCEL NO OR CADID