

homelab diagram

```
%%{init: {'theme': 'base', 'themeVariables': { 'primaryColor': '#cfd8dc', 'primaryTextColor': '#eceff1', 'primaryBorderColor': '#cfd8dc', 'lineColor': '#b0bec5', 'tertiaryColor': 'transparent', 'edgeLabelBackground': 'transparent', 'mainBkg': '#121212'}}}%
```

```
flowchart LR
```

```
%% =====
```

```
%% 1. DEFINITIONS & CLASSES
```

```
%% =====
```

```
%% App Nodes (Dark Boxes)
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```
classDef app fill:#263238,stroke:#546e7a,stroke-width:2px,color:#eceff1,rx:5,ry:5
```

```
%% The "Internet" Circle
```

```
classDef internet fill:#fff,stroke:#333,color:#000,stroke-width:2px
```

```
linkStyle default stroke:#607d8b,stroke-width:1px,fill:none;
```

```
%% =====
```

```
%% 2. THE CANVAS
```

```
%% =====
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```
subgraph DarkCanvas [ ]
```

```
direction LR
```

```
style DarkCanvas fill:#121212,stroke:#121212,color:#121212
```

```
%% --- SOURCE ---
```

```
Internet((Internet)):::internet
```

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%% =====
```

```
%% 3. BLUE ZONE: ORACLE CLOUD
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%% =====
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```
subgraph OracleCloud [Oracle Cloud - Free Tier]
```

```
direction TB
```

```
%% Blue Fill with Bright Blue Border
```

```
style OracleCloud fill:#0d47a1,stroke:#448aff,stroke-width:4px,color:#fff,rx:10,ry:10
```

```
%% --- SERVER: PHOENIX ---
```

```

subgraph PhoenixBox [Phoenix - Gateway]
    direction TB
    %% Charcoal Box
    style PhoenixBox fill:#212121,stroke:#607d8b,stroke-
width:2px,color:#fff,rx:5,ry:5

    P_Traefik[Traefik Proxy]:::app
    P_WG[WireGuard Interface]:::app

    %% Grey Box: Stack
    subgraph P_Infra [Infrastructure]
        style P_Infra fill:#424242,stroke:#757575,stroke-width:1px,stroke-
dasharray: 5 5,color:#eee,rx:5,ry:5
        P_Fail2Ban[Fail2Ban]:::app
        P_Agent[Portainer Agent]:::app
        P_Kuma[Uptime Kuma]:::app
    end
end

%% --- SERVER: DOBBY ---
subgraph DobbyBox [Dobby - Game Node]
    direction TB
    style DobbyBox fill:#212121,stroke:#607d8b,stroke-
width:2px,color:#fff,rx:5,ry:5

    %% Grey Box: Stack
    subgraph D_Games [Game Stack]
        style D_Games fill:#424242,stroke:#757575,stroke-width:1px,stroke-
dasharray: 5 5,color:#eee,rx:5,ry:5
        D_Wing[Pterodactyl Wing]:::app
        D_MC[Minecraft Cluster]:::app
    end

    D_Agent[Portainer Agent]:::app
end

%% =====
%% 4. GREEN ZONE: HOME NETWORK

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%% =====
subgraph HomeNet [Home Network - Deltona]
  direction TB
  %% Green Fill with Bright Green Border
  style HomeNet fill:#1b5e20,stroke:#00e676,stroke-width:4px,color:#fff,rx:10,ry:10

  Unifi[Unifi Router]:::app
  style Unifi fill:#000,stroke:#00e676,stroke-width:2px,color:#fff

  %% --- SERVER: FIREBOLT ---
  subgraph FireboltBox [Firebolt - Main Server]
    direction TB
    style FireboltBox fill:#212121,stroke:#607d8b,stroke-
width:2px,color:#fff,rx:5,ry:5

    F_Traefik[Traefik Internal]:::app
    F_WG[WireGuard Interface]:::app

    subgraph F_Stacks [Apps & Services]
      style F_Stacks fill:none,stroke:none,color:#fff

      %% Grey Box: Stack
      subgraph F_Infra [Infrastructure]
        style F_Infra fill:#424242,stroke:#757575,stroke-width:1px,stroke-
dasharray: 5 5,color:#eee,rx:5,ry:5

        F_Auth[Authentik]:::app
        F_Portainer[Portainer]:::app
        F_Homepage[Homepage]:::app
        F_Tug[Tugtainer]:::app
        F_Dozzle[Dozzle]:::app
      end

      %% Grey Box: Stack
      subgraph F_Media [Media Stack]
        style F_Media fill:#424242,stroke:#757575,stroke-width:1px,stroke-
dasharray: 5 5,color:#eee,rx:5,ry:5

        F_Plex[Plex Media Server]:::app
        F_Req[Overseerr / Tautulli]:::app
        F_Arr[Sonarr / Radarr / Prowlarr<br/>Huntarr / Doplarr]:::app
      end
    end
  end
end

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        F_Down[qBit / Unpackerr / Flare]:::app
    end

%% Grey Box: Stack
    subgraph F_Admin [Admin Tools]
        style F_Admin fill:#424242,stroke:#757575,stroke-width:1px,stroke-
dasharray: 5 5,color:#eee,rx:5,ry:5
        F_Bit[Vaultwarden]:::app
        F_Book[BookStack]:::app
        F_Dup[Duplicati]:::app
        F_File[FileBrowser]:::app
        F_PMA[PhpMyAdmin]:::app
    end

%% Grey Box: Stack
    subgraph F_GameStack [Game Stack]
        style F_GameStack fill:#424242,stroke:#757575,stroke-width:1px,stroke-
dasharray: 5 5,color:#eee,rx:5,ry:5
        F_Panel[Ptero Panel]:::app
        F_Wing[Ptero Wing]:::app
        F_DB[Panel DB & Redis]:::app
        F_Ark[Ark Survival Evolved]:::app
    end
end
end

%% --- SERVER: NORBERT ---
    subgraph NorbertBox [Norbert - Storage]
        direction TB
        style NorbertBox fill:#212121,stroke:#607d8b,stroke-
width:2px,color:#fff,rx:5,ry:5

        N_WG[WireGuard]:::app
        N_Store[Media Storage]:::app
    end

%% Grey Box: Stack
    subgraph N_Apps [App Stack]
        style N_Apps fill:#424242,stroke:#757575,stroke-width:1px,stroke-
dasharray: 5 5,color:#eee,rx:5,ry:5

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        N_Hass[Home Assistant]:::app
        N_LLM[LLMCord AI]:::app
    end

    %% Grey Box: Stack
    subgraph N_Games [Game Node 1]
        style N_Games fill:#424242,stroke:#757575,stroke-width:1px,stroke-
dasharray: 5 5,color:#eee,rx:5,ry:5
        N_Wing[Ptero Wing]:::app
        N_MC[MC Test]:::app
    end
end

%% --- HARDWARE: RASPBERRY PI ---
subgraph PiHoleBox [Raspberry Pi]
    direction TB
    style PiHoleBox fill:#212121,stroke:#607d8b,stroke-
width:2px,color:#fff,rx:5,ry:5
    PI_SVC[DNS Sinkhole]:::app
    PI_VPN[PiVPN Ingress]:::app
end
end
end

%% =====
%% 5. TRAFFIC WIRING
%% =====

%% Internet Ingress (GREEN - PUBLIC)
Internet ==>|HTTPS| P_Traefik
Internet ==>|MC Ports| D_Games
Internet ==>|32400 / 51820 / Games| Unifi
linkStyle 0,1,2 stroke:#00e676,stroke-width:3px;

%% Tunnel (ORANGE - WIREGUARD)
P_Traefik --> P_WG
P_WG ==>|WireGuard Tunnel| F_WG
linkStyle 3,4 stroke:#ff9100,stroke-width:4px;

```

```

%% LAN (BLUE - INTERNAL)
F_WG --> F_Traefik
linkStyle 5 stroke:#2979ff,stroke-width:2px;

%% LAN Distribution (BLUE)
F_Traefik --> F_Infra & F_Media & F_Admin & F_GameStack
linkStyle 6,7,8,9 stroke:#2979ff,stroke-width:2px;

%% LAN Remote (BLUE)
F_Traefik --> N_Apps & PI_SVC
linkStyle 10,11 stroke:#2979ff,stroke-width:2px;

%% Split Route (ORANGE - TUNNEL)
P_WG -->|Direct Route| N_WG
linkStyle 12 stroke:#ff9100,stroke-width:3px,stroke-dasharray: 5 5;

%% LAN Internal (BLUE)
N_WG --> N_Games
linkStyle 13 stroke:#2979ff,stroke-width:2px;

%% PORT FORWARDING (GREEN DASHED - PUBLIC MAPPED)
Unifi -->|32400| F_Plex
Unifi -->|Game Ports| F_GameStack
Unifi -->|Game Ports| N_Games
Unifi -->|UDP 51820| PI_VPN
linkStyle 14,15,16,17 stroke:#00e676,stroke-width:2px,stroke-dasharray: 5 5;

%% Management (GREY/NEUTRAL)
F_Portainer --> P_Agent & D_Agent
F_Down -->|NFS| N_Store
F_Panel --> D_Wing & N_Wing & F_Wing

```

Color Legend

- **Green Lines:** Public Internet Traffic (HTTPS, 32400, Game Ports)
- **Orange Lines:** WireGuard Tunnel Traffic
- **Blue Lines:** Internal LAN Traffic
- **Blue Zone:** Oracle Cloud Infrastructure

■ **Green Zone:** Home Network Infrastructure

■ **Charcoal Boxes:** Servers & Hardware (Phoenix, Firebolt, etc.)

■ **Grey Boxes:** Logical Stacks (Media, Infra, Admin)

■ **Dark Boxes:** Individual Applications

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