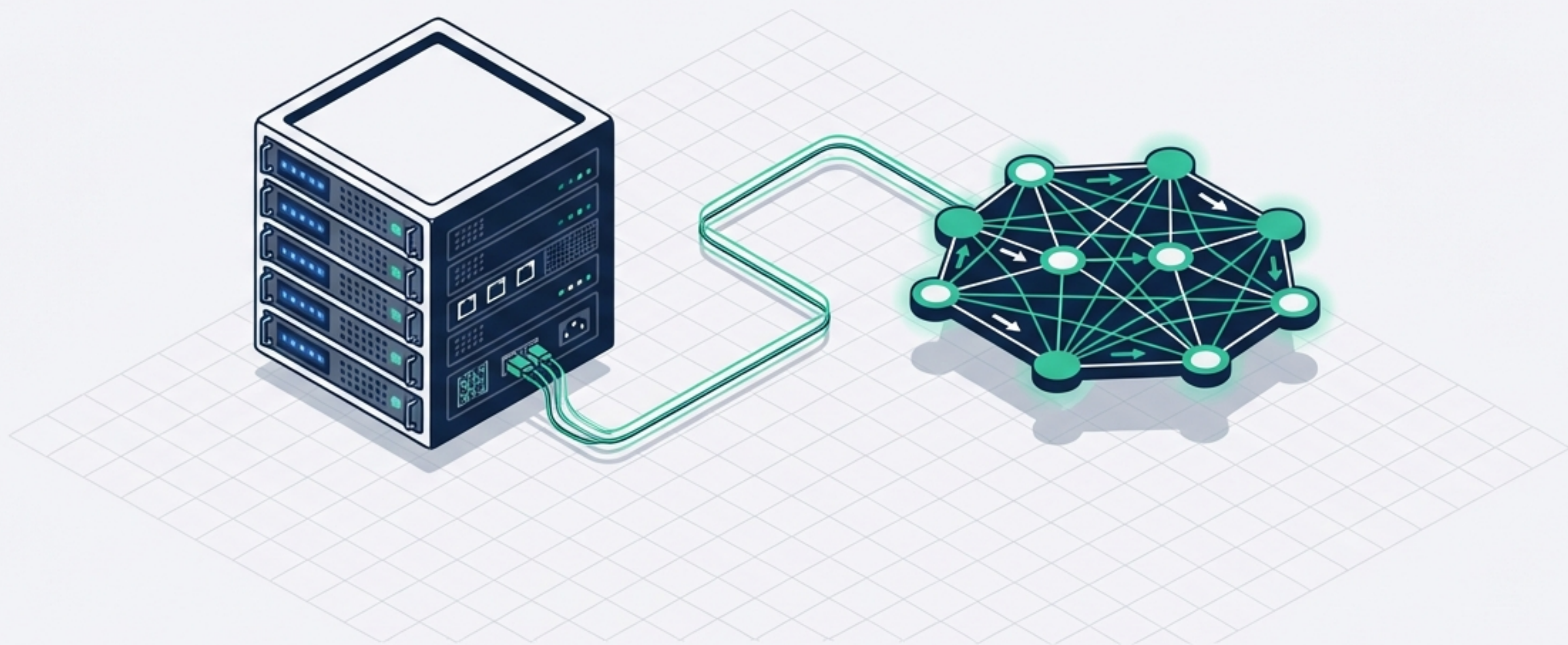


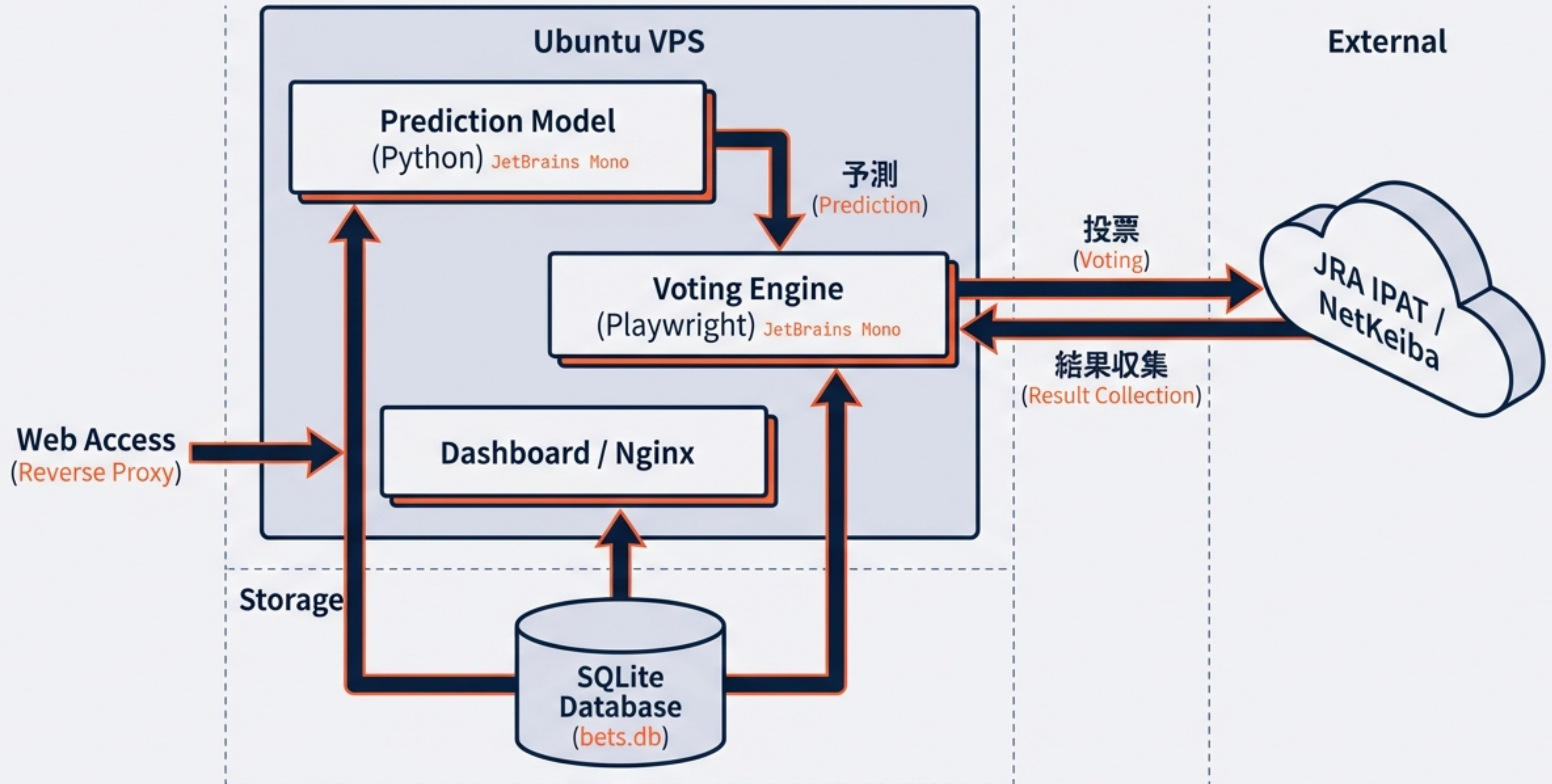
# keibaAI-v3 VPS Deployment & Operations

## 競馬AI自動投票システム 運用マニュアル



TARGET ENV: Xserver VPS (Ubuntu 22.04 / 24.04) | STATUS: Production Ready | REV: 3.0

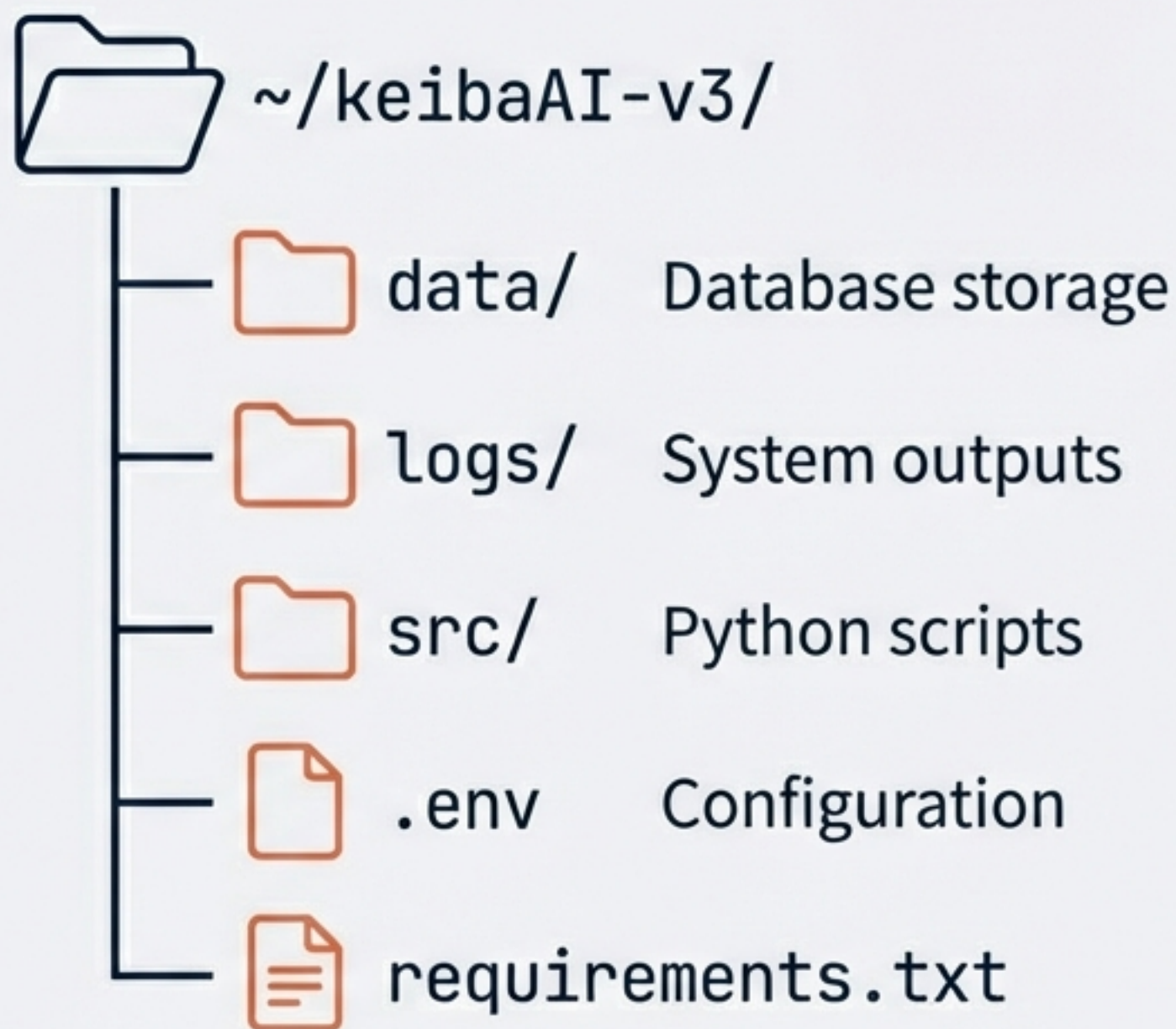
# System Architecture Overview



# Prerequisites & Environment Setup

## Server Specifications

- Provider: Xserver VPS
- OS: Ubuntu 22.04 / 24.04
- Access: SSH (Key-based auth recommended)
- Runtime: Python 3.10+



System Requirements: Headless browser support (Playwright) and Nginx for web serving.

# Configuration & Security

```
# JRA IPAT Credentials
IPAT_ID=12345678      # INET-ID
IPAT_PASSWORD=***** # Masked
PARS_ID=9876         # P-ARS Number

# System Settings
ENV=production
DB_PATH=./data/bets.db
```

## VPS上でIPAT認証情報を設定する

- **Setup Script:** Run 1. setup.sh to initialize.
- **Security Note:** Credentials remain local to the VPS environment.

# Synchronization & Dependencies

## Recommended Sync Method

```
rsync -avz --exclude 'data' ./ local_user@vps:/path/to/app/
```

Fallback: `scp -r` (Use with caution to avoid overwriting data folder)

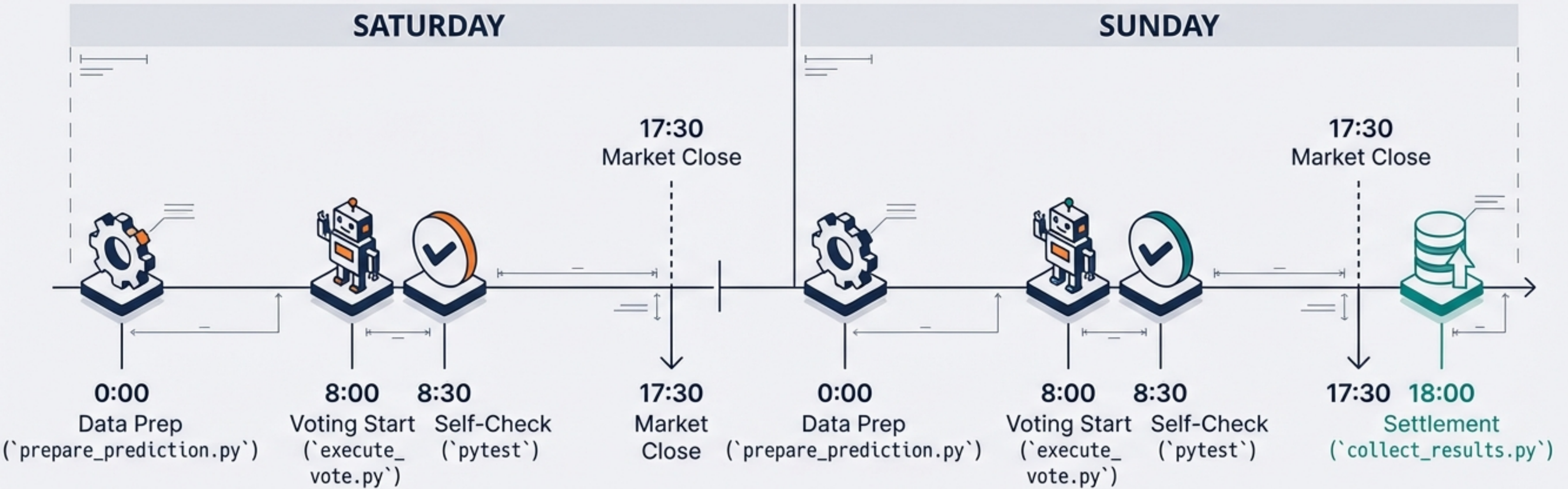
## Python Environment

```
pip install -r requirements.txt
```

### 5. 動作確認 (Verify Operation)

Ensure no import errors before scheduling cron jobs.

# The Weekend Automation Loop



# Critical Manual Intervention



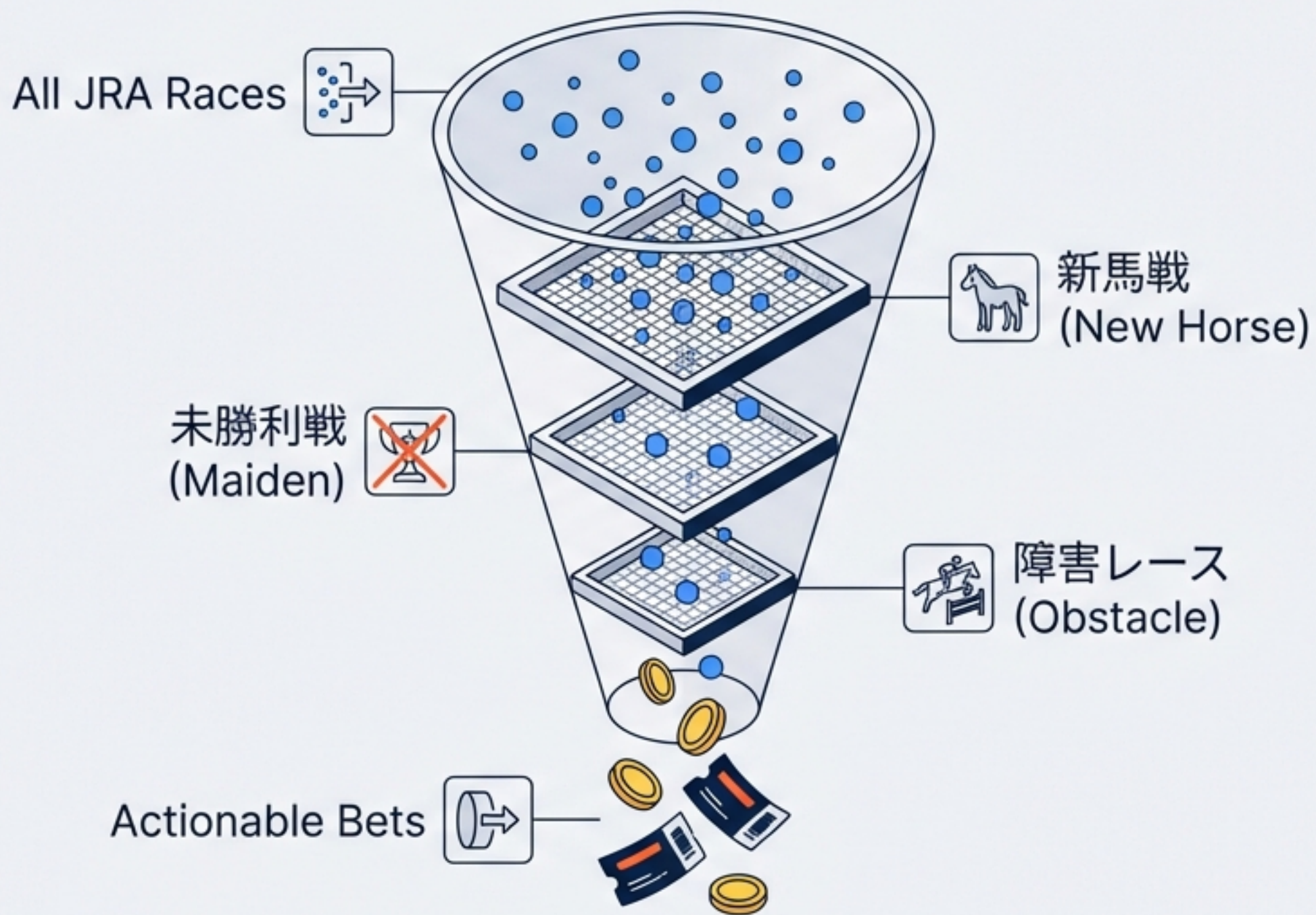
## IPATへの入金 (Deposit to IPAT)

Time: Every Saturday by **08:00 AM**

IPAT deposits are NOT automated. If funds are insufficient, all votes for the weekend will fail.

Check balances again on Sunday morning if betting volume is high.

# Betting Logic & Scope



The system automatically excludes high-volatility race types to preserve ROI stability.

# The Data Pipeline: Vote to Dashboard

## Vote Execution

Time:  
08:00 - 17:30



Script:  
05\_execute\_vote.py

Data State:  
hit = NULL (Pending)

## Result Collection

Time:  
18:00 (Sun)



Script:  
06\_collect\_results.py

Data State:  
hit = 0/1, payout = ¥...

## Visualization

Time:  
Always On



Script:  
07\_dashboard.py












Output:  
Web UI Stats & ROI

# Dashboard Interface

URL: <https://logimania.xvps.jp/keiba-bets/>



# Database Schema Reference (`bets` table)

Identifiers		Financials			Analytics		Status	
<b>race_id</b> Text	<b>umaban</b> JSON [3,7]	<b>amount</b> Int	<b>payout</b> Int	<b>odds</b> Real	<b>pred</b> Probability	<b>expect_return</b> Value	<b>hit</b>	<b>settled_at</b> Timestamp
							 0 = Loss  1 = Win  NULL = Wait	

Primary Data Store: SQLite3. All scripts read/write to this single source of truth.

# Handling Irregular Schedules (Mondays)

Standard cron jobs are configured for Saturday/Sunday (6,0) only. Monday races (National Holidays) require manual triggers.

```
# 1. SSH into VPS
ssh user@vps-ip

# 2. Prepare Data
python3 prepare_prediction.py

# 3. Start Voting (Run in background)
nohup python3 05_execute_vote.py &

# 4. Collect Results (After 18:00)
python3 06_collect_results.py
```

# Troubleshooting & Recovery

## Dashboard Down

**Action:**

Check Nginx status or restart `07_dashboard.py`.



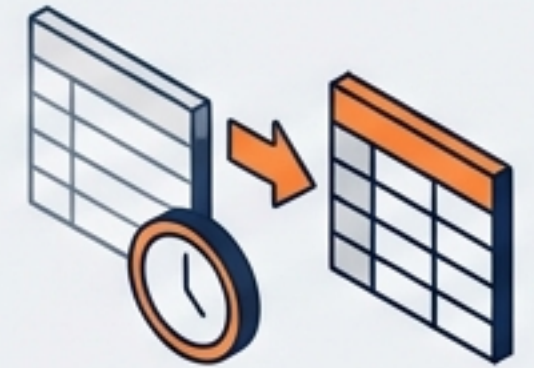
## Empty Result Table

**Cause:**

Ran before JRA data finalization.

**Action:**

Rerun `06_collect_results.py` after 18:00.



## Playwright/Cron Failure

**Action:**

Check ``logs/`` directory.  
Verify Timezone settings.



## Database Reset

**Action:**

Delete ``bets.db`` to flush history. (Use with caution).



# Known Limitations: IPAT Dialogs



## Context

Unexpected pop-ups (Weather changes, Overseas racing alerts) can block the automated login sequence.

## Impact

If a dialog appears, the login fails and votes are skipped.

## Remediation

- **Current:** No auto-dismiss.
- **Fix:** Check logs. If `JavaScript alert` detected, update `auto_vote.py` logic manually.

# Operator's Cheat Sheet

## Weekly Schedule



**SAT 08:00**

[MANUAL] DEPOSIT FUNDS

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**SAT/SUN 08:00**

[AUTO] Check logs for vote start

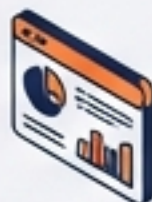
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**SUN 18:00**

[AUTO] Check Dashboard for results

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## Essential Commands

```
# Connect
ssh user@vps-ip

# Monitor
tail -f logs/vote.log

# Manual Fetch
python3 06_collect_results.py

# Restart Web
systemctl restart nginx
```