

Private Business Intelligence and Privacy Analytics Server by Optick

AWS Marketplace Customer Instructions

Quick start summary

Launch the instance, allow inbound TCP 22 and TCP 80, connect with your Amazon private key and the ubuntu user, then run `cat /home/ubuntu/FIRST_LOGIN.txt` to view URLs and credentials.

Important: In the commands below, replace `PUBLIC_IP` with the public IPv4 address assigned to your EC2 instance. Commands that you type are shown in red.

1. Product overview

Private Business Intelligence and Privacy Analytics Server by Optick is a self hosted analytics server that combines Apache Superset for business intelligence dashboards and SQL based data exploration with Umami for privacy focused website and product analytics. The AMI also includes PostgreSQL, Redis, Docker Compose, Nginx routing, AWS ready data connectors, helper commands, first boot automation, and local only Superset MCP support for AI assisted analytics workflows.

Item	Details
Operating system	Ubuntu 24.04 LTS
Default SSH user	ubuntu
Main applications	Apache Superset and Umami
Database and cache	PostgreSQL and Redis
Public entry point	Nginx on TCP 80
Application orchestration	Docker and Docker Compose
MCP security posture	Superset MCP is bound to localhost only and is not exposed directly to the public internet

2. Launch requirements

Item	Details
Recommended root volume	60 GB gp3 minimum. Use 100 GB gp3 or larger for production analytics use.
Small evaluation instance	t3.large
Regular use	t3.xlarge or m6i.large
Heavier production use	m6i.xlarge, m7i.large, or m7i.xlarge
Required inbound port	TCP 80 for web access
Required admin port	TCP 22 for SSH access from your trusted IP range
Optional future port	TCP 443 if you later configure a domain and HTTPS

Security group recommendation: Allow TCP 22 only from your trusted IP address or corporate network. Allow TCP 80 from the users who need browser access. Do not expose internal application, database, Redis, or MCP ports directly to the public internet.

3. Connect to the instance

Connect to your instance using your Amazon private key and the **ubuntu** user.

```
ssh -i YOUR-KEY.pem ubuntu@PUBLIC_IP
```

After connecting, view the first login file:

```
cat /home/ubuntu/FIRST_LOGIN.txt
```

First launch timing note

If the application pages do not appear immediately, wait one minute and refresh your browser. On first launch, the server is generating credentials, initializing databases, starting containers, and refreshing public URLs.

4. First login file and application URLs

The first login file contains the URLs and initial credentials for your specific instance. The server detects the instance public IP address automatically during first boot.

Item	Details
Landing page	http://PUBLIC_IP/
Apache Superset	http://superset.PUBLIC_IP.sslip.io/
Umami Analytics	http://umami.PUBLIC_IP.sslip.io/

Example using a fictional public IP address:

```
http://203.0.113.10/
```

```
http://superset.203.0.113.10.sslip.io/
```

```
http://umami.203.0.113.10.sslip.io/
```

5. Apache Superset login and use

Apache Superset is the business intelligence and data exploration application included with this server. Use it to connect databases, run SQL, create charts, and build dashboards.

1. Open the Superset URL shown in /home/ubuntu/FIRST_LOGIN.txt.
2. Log in with the generated Superset email and password shown in the first login file.
3. After logging in, change the administrator password.
4. Use the Settings or Data menu in Superset to add databases, datasets, charts, and dashboards.

The default Superset administrator email is:

```
admin@optick.local
```

The password is generated uniquely on first boot and is shown in:

```
cat /home/ubuntu/FIRST_LOGIN.txt
```

6. Umami Analytics login and use

Umami provides privacy focused website and product analytics. Use it to track websites, product events, reports, sessions, and related analytics data on your own AWS instance.

1. Open the Umami URL shown in /home/ubuntu/FIRST_LOGIN.txt.
2. Log in with the initial Umami credentials.
3. Immediately change the default Umami password after first login.

4. Add a website or application inside Umami and copy the provided tracking script into your site or application.

Initial Umami login:

Username: admin

Password: umami

7. Helpful server commands

The following helper commands are installed to simplify common administration and support tasks. Commands that you type are shown in red.

Task	Command
Show application URLs	optick-analytics-url
Check service status and local health	optick-analytics-status
Show Superset and Umami credentials	optick-analytics-credentials
View logs for one service	optick-analytics-logs SERVICE
Restart the analytics stack	optick-analytics-restart
Check Superset MCP status	optick-analytics-mcp-status
Verify installed Superset connector packages	optick-analytics-connectors

Examples:

optick-analytics-logs superset

optick-analytics-logs umami

optick-analytics-logs postgres

8. AWS data connector readiness

The Superset image includes connector packages for common AWS and database analytics workflows, including Amazon Athena, Amazon Redshift, PostgreSQL, MySQL, and boto3 based AWS integration support.

- Use an IAM role attached to the EC2 instance whenever possible instead of storing long term AWS access keys on the server.
- Follow your organization security policy when connecting Superset to AWS data sources.
- For Amazon Athena, you will generally need an S3 query result location and appropriate Glue, Athena, and S3 permissions.
- For Amazon Redshift, use the connection details, user credentials, network access, and security group rules approved for your environment.

Verify connector package availability with:

optick-analytics-connectors

9. AI ready Superset MCP support

Superset MCP support is installed and running locally on the instance. It is designed for advanced AI assisted analytics workflows. For security, MCP is bound to localhost only and is not exposed directly to the public internet.

Check MCP status with:

optick-analytics-mcp-status

Advanced users may use SSH tunneling to reach the local MCP service from a trusted client. Example:

ssh -i YOUR-KEY.pem -L 5008:127.0.0.1:5008 ubuntu@PUBLIC_IP

Security warning

Do not open TCP 5008 to the public internet. If you choose to integrate MCP with external tooling, place it behind appropriate authentication, TLS, and network controls.

10. Service management and troubleshooting

- If a page does not load immediately after first launch, wait one minute and refresh the browser.
- Use `optick-analytics-status` to confirm that the Docker services are running.
- Use `optick-analytics-logs` followed by a service name to view recent service logs.
- Use `optick-analytics-restart` to restart the analytics stack.
- Verify that your EC2 security group allows inbound TCP 80 for web access and TCP 22 for SSH administration.
- Use the landing page as the easiest starting point for the current instance URLs.

Common troubleshooting commands:

optick-analytics-status

optick-analytics-logs superset

optick-analytics-logs umami

sudo nginx -t

cd /opt/optick-analytics && docker compose ps

11. Security and post launch tasks

- Change the Superset administrator password after the first login.
- Change the default Umami admin password immediately after first login.
- Restrict SSH access to trusted IP addresses.
- Do not expose PostgreSQL, Redis, Superset internal port 8088, Umami internal port 3000, or MCP port 5008 directly to the internet.
- Attach least privilege IAM roles for AWS data source access.
- Consider adding a domain and HTTPS for production use.
- Keep customer data, analytics exports, backups, and credentials protected according to your organization policies.

12. Optional domain and HTTPS planning

This AMI is designed to work immediately using public IP based `sslip.io` hostnames. For production, many customers may prefer to attach a domain name and configure HTTPS. This is optional and depends on your organization DNS and certificate requirements.

- Create DNS records that point your chosen hostnames to the EC2 public IP address.
- Update the Nginx configuration to use your hostnames.
- Add HTTPS with your preferred certificate workflow, such as a reverse proxy certificate process or a managed load balancer.
- Open TCP 443 only after HTTPS is configured.

13. Included services and internal ports

Item	Details
Landing page	Public through Nginx on TCP 80
Apache Superset	Internal localhost mapping on TCP 8088, proxied by Nginx
Umami Analytics	Internal localhost mapping on TCP 3000, proxied by Nginx
Superset MCP	Localhost only on TCP 5008
PostgreSQL	Docker network only on TCP 5432
Redis	Docker network only on TCP 6379

14. Additional documentation resources

- [Apache Superset documentation](#)
- [Apache Superset database connection documentation](#)
- [Apache Superset MCP documentation](#)
- [Umami documentation](#)
- [Umami installation documentation](#)

15. Release notes

Initial Optick release on Ubuntu 24.04. Includes Apache Superset, Umami, PostgreSQL, Redis, Docker Compose, Nginx public IP based routing, AWS data connector packages, first boot credential generation, customer FIRST_LOGIN instructions, helper commands, local only Superset MCP support, corrected host based routing, stable Superset worker and beat services, and clean AMI preparation for fresh customer launches.

16. Support notes

This product includes charges associated with the provision and deployment of the application and AMI support. For software specific usage, consult the Apache Superset and Umami documentation linked above. For AMI launch, routing, first login, or helper command questions, use the AWS Marketplace support contact path associated with this product listing.