CONFIGURATION GUIDES › DOCKER

Configuring an agent within an Nginx container using a (docker-compose.yml) file

Applicare 10.0 · Updated February 27, 2025 · docker, nginx · **Pending technical review**

Step 1: Create a file called **custom_nginx.conf** with the content below.

```text
user nginx;
worker_processes auto;
pid /var/run/nginx.pid;

events {
     worker_connections 1024;
}

http {
    log_format main '$remote_addr - $remote_user $time_iso8601 [$request_time] "$request" '
                    '$status $body_bytes_sent || "$request_body" || "$http_referer" '
                    '"$http_user_agent" "$http_x_forwarded_for"';

   access_log /var/log/access.log main;
   access_log /dev/stdout main;

   include /etc/nginx/conf.d/*.conf;
}
```

Step 2: Add the following **location** block to the **server** block in the **nginx.conf** or **default.conf** file you are already using, which is loaded as a Volume mount into the nginx container.

```text
location /nginx-status {
stub_status on;
allow 127.0.0.1;
allow all;
}
```

```
server {
        listen 80;
        server_name _;
        root /srv;                  # Default root directory for the server
        disable_symlinks off;       # Allow symlinks

        location /nginx-status {
            stub_status on;
            allow 127.0.0.1;
            allow all;
        }

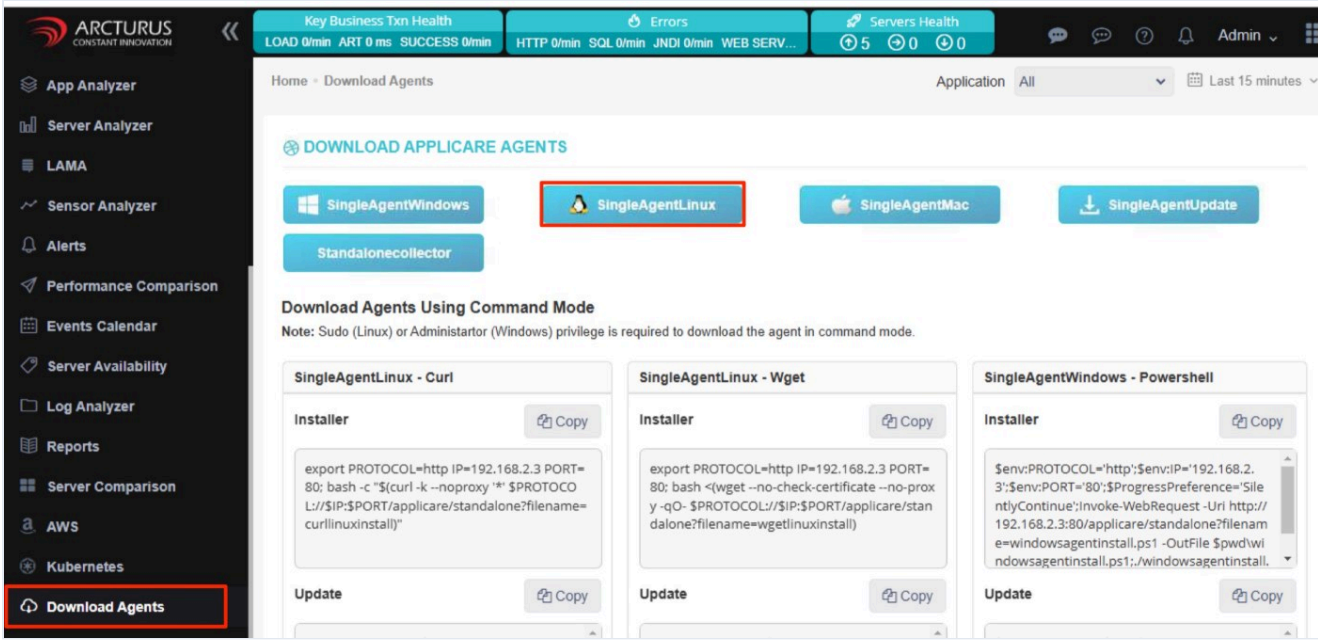
        location /petstore {
            retrun 301 http://192.168.4.48:8880;
        }
}
```

Step 3: If an **accesslog** line exists in the **nginx.conf** or **default.conf** file, comment it out.

Step 4: Download the file **agent_startup.sh** ***(sample file, available on the documentation site)*** from this link.

Note: While our agent can be directly downloaded into the nginx container, some containers may lack essential commands like curl or wget and unzip, In such cases, the agent must be downloaded manually and mounted as a volume in the container.

Step 5: Log in to Applicare console. Go to the Download Agent screen in the left-side menu, Download the SingleAgentLinux agent and extract it into the designated directory ApplicareSingleAgentLinux in host machine.



Step 6: In the '**agentscripts**' directory within the extracted **ApplicareSingleAgentLinux** folder, locate and edit the '**startAgent.sh**' file. Before the line containing '**JAVA_OPTS**', insert the following line and save the changes.

```bash
JAVA_HOME_PATH=/usr/bin/java
export JAVA_HOME_PATH
```

```
if [[ $(uname -s) == "Darwin" ]]; then
  JAVA_HOME_PATH="$ARCTURUS_HOME/jre/mac/zulu-8_jre/Contents/Home"
else
  JAVA_HOME_PATH="$ARCTURUS_HOME/jre/linux/jre"
fi
#export JAVA_HOME

JAVA_HOME_PATH=/usr/bin/java
export JAVA_HOME_PATH

JAVA_OPTS="-noverify -Xmx1024m -Dserver.name=$SERVER_NAME -javaagent:$
#JAVA_OPTS=" $JAVA_OPTS -Darcturus_info_pass=arcturus -Darcturus_debug
export JAVA_OPTS
```

Step 7: Add the following command in your existing **docker-compose.yml** file.

hostname: **The name which we need to add the agent in Applicare** entrypoint: ["sh", "-c"]

command: > 'apk add --no-cache openjdk8-jre && chmod +x /usr/local/agent_startup.sh && /usr/local/agent_startup.sh && nginx -g "daemon off;"'

Add the following line to the Volume mount line in that yml file.

- **where the agent_startup.sh file is located**/agent_deploy.sh:/usr/local/agent_startup.sh - **where the agent directory is located**/ApplicareSingleAgentLinux:/usr/local/ApplicareSingleAgentLinux - **where the custom_nginx.conf file is located**/custom_nginx.conf:/etc/nginx/nginx.conf

Example:

```bash
version: '3.8'

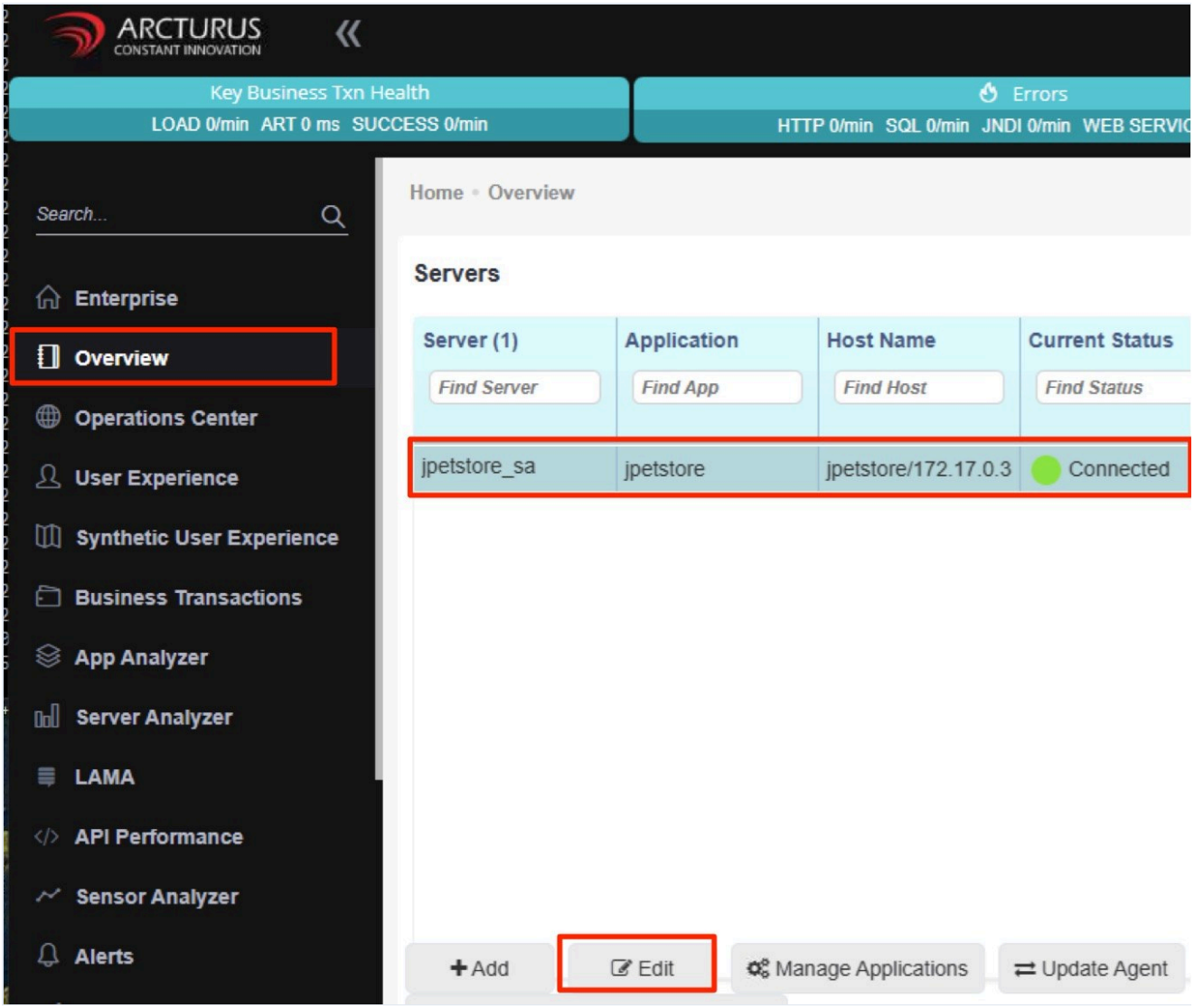
services:
nginx:
image: nginx:1.23-alpine
container_name: nginx-server
restart: always

hostname: nginx_agent
entrypoint: ["sh", "-c"]
command: >
      'apk add --no-cache openjdk8-jre &&
      chmod +x /usr/local/agent_startup.sh &&
      /usr/local/agent_startup.sh &&
      nginx -g "daemon off;"'

ports:
- "85:80"
- "443:443"

volumes:
- /usr/local/agent_startup.sh:/usr/local/agent_startup.sh
- /usr/local/ApplicareSingleAgentLinux:/usr/local/ApplicareSingleAgentLinux
- /usr/local/custom_nginx.conf:/etc/nginx/nginx.conf
```

Step 8: After the container starts, the agent is automatically added with the Applicare controller. To manage it, log in to the Applicare console and go to the Overview menu. Find the newly added agent, select it, and click **Edit** to configure as needed.



Note: If the sub_status module is available, continue with Step 9. Otherwise, skip Step 9 and move directly to Step 10.

Step 9: Enable the "**Add Nginx Configuration**" checkbox and add the below values.

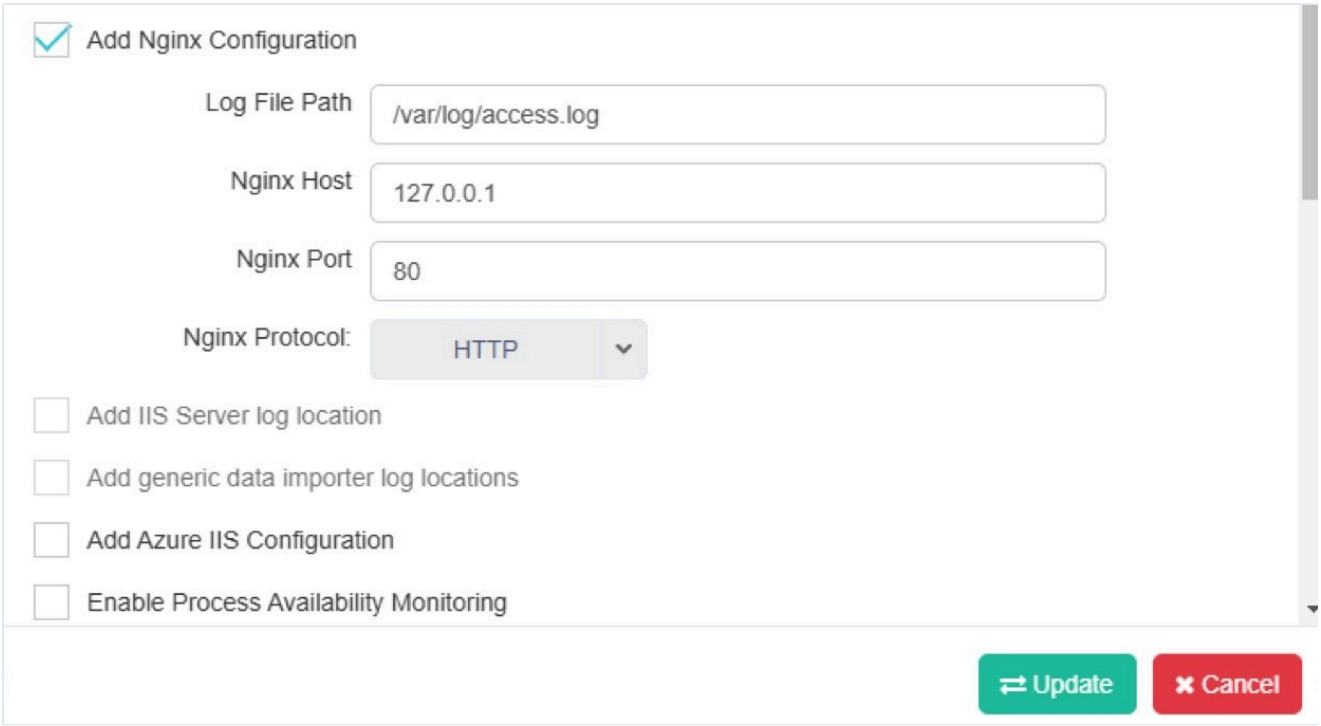
1. Log file path

2. Nginx Host

3. Nginx Port

4. Nginx Protocol

- Click the **update** button to save.



Step 10: Select the "**Add Nginx Configuration**" checkbox and add the below values.

1. Log file path

- Click the **update** button to save.

