LOGZILLA DOCUMENTATION

Offline Installs and Upgrades

Install or upgrade LogZilla in air-gapped environments using the offline kickstart package, which bundles all required Docker images and scripts

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LogZilla supports offline installations and upgrades for air-gapped environments where direct internet access is not available. The offline installation package contains all necessary Docker images and installation scripts, enabling complete LogZilla deployment without external network connectivity.

Important: Offline installations require Docker to be pre-installed on the target system. The offline package does not include Docker itself.

Offline Installation Overview

LogZilla's offline installation system provides:

- **Self-Contained Package**: Complete installation bundle with all required Docker images
- **Air-Gap Support**: No internet connectivity required on target systems
- **Automated Installation**: Streamlined installation process via kickstart script
- **Upgrade Capability**: In-place upgrades using offline packages
- **Version Verification**: Built-in version checking and validation

Prerequisites

System Requirements

- **Target System**: LogZilla server (air-gapped or offline)
- **Download System**: Any system with internet access for package download
- **Root Access**: Administrative privileges on the LogZilla server
- **Docker**: Docker Engine installed and running on target system
- **System Resources**: Minimum CPU and RAM requirements as per LogZilla specifications

File Transfer Method

Choose an appropriate method for transferring the offline package:

- **SCP/RSYNC**: Secure copy over existing network connections
- **Network Share**: Shared storage accessible to both systems
- **Physical Media**: USB drives, CD/DVD, or other removable media

Downloading the Offline Package

Web Interface Download (Recommended)

The **recommended approach** for obtaining the offline package is through the LogZilla license portal:

Access Download Portal:

- Navigate to https://license.logzilla.net/download/ (https://license.logzilla.net/download/)
- The system automatically provides the latest stable version
- Download begins immediately upon accessing the URL

Package Information:

- **File Format**: `logzilla-v6.x.y.tar.gz`
- **Package Contents**: All required Docker images and installation scripts
- **File Size**: Typically 2-4 GB depending on version
- **Naming Convention**: Version number included in filename

Verify Download:

- Confirm complete download by checking file size
- Note the exact filename for use in subsequent commands
- Verify file integrity if checksums are provided

Package Transfer

Transfer the downloaded package to the offline LogZilla server using one of these methods:

Network Transfer:

```
# SCP transfer
scp logzilla-v6.x.y.tar.gz user@offline-server:/tmp/

# RSYNC transfer
rsync -avz logzilla-v6.x.y.tar.gz user@offline-server:/tmp/
```

Physical Media Transfer:

```
# Copy to removable media
cp logzilla-v6.x.y.tar.gz /media/usb-drive/
sync && umount /media/usb-drive
```

Note: Replace `logzilla-v6.x.y.tar.gz` with the actual filename of the downloaded package throughout this document.

Determining Installation vs Upgrade

Critical Warning: Running a new installation on an existing LogZilla system will **destroy all data and configuration**. Always verify whether LogZilla is already installed before proceeding.

Check for Existing Installation

Before proceeding with any installation, verify if LogZilla is already installed:

```
# Check if logzilla command exists
which logzilla

# If logzilla exists, check current version
logzilla version 2>/dev/null

# Check for LogZilla Docker containers
docker ps -a | grep lz_

# Check for LogZilla settings directory
ls -la /etc/logzilla/ 2>/dev/null
```

Decision Matrix:

- **If `logzilla version` returns a version number**: Use the **Upgrade Procedure** below
- **If `logzilla` command does not exist**: Use the **New Installation Procedure** below
- **If unsure**: Contact LogZilla support before proceeding

Upgrade Procedure (Existing Systems)

Important: This section is for systems that **already have LogZilla installed**. If LogZilla is not currently installed, skip to the New Installation section below.

Pre-Upgrade Preparation

System Verification:

```
# Check current LogZilla version
logzilla version
```

```
# Check available disk space for Docker
docker info --format '{{.DockerRootDir}}' | xargs df -h
```

Backup Recommendations:

- Create system backup before upgrading
- Document current configuration settings
- Note any custom modifications or integrations

Command Line Upgrade Process

Extract Upgrade Package:

```
# Navigate to transfer location
cd /tmp

# Extract the new version package
tar xzvf logzilla-v6.x.y.tar.gz
```

Execute Upgrade:

```
# Run upgrade command pointing to extracted directory
logzilla upgrade --offline-dir /tmp/logzilla-v6.x.y
```

Upgrade Process: The upgrade command automatically:

- Loads new Docker images from the offline directory
- Stops existing LogZilla containers in proper sequence
- Starts new containers with upgraded images
- Updates system configurations

Verify Upgrade:

```
# Check new version
logzilla version

# Test web interface accessibility
curl -X GET http://localhost/api/ping
```

Upgrade Output Example:

```
Loading /tmp/logzilla-v6.x.y/logzilla-runtime:v6.x.y.tar.gz ...
Loading /tmp/logzilla-v6.x.y/postgres:15.2-alpine.tar.gz ...
Starting LogZilla upgrade to 'v6.x.y'
```

```
Decommissioning old containers...
Starting new containers...
LogZilla successfully upgraded to 'v6.x.y'
```

Post-Upgrade Verification

System Health Check:

```
# Verify version upgrade
logzilla version

# Test log ingestion
logger "Test message after upgrade"
```

Web Interface Verification:

Access LogZilla web interface
Confirm user authentication works
Verify dashboard functionality
Test search capabilities
Check system settings and configurations

New Installation Procedure (Fresh Systems Only)

Critical: This procedure is **only for systems that do not have LogZilla installed**. Running this on an existing LogZilla system will destroy all data. Use the Upgrade Procedure above for existing installations.

Post-Installation Setup

After completing the offline installation, the first administrator login triggers a mandatory setup sequence:

Initial Login: Log in with the initial administrator credentials
EULA Acceptance: Accept the End-User License Agreement
Instance Registration: Complete the license registration form with:

- User Name
- Company Name
- Email Address
- Phone Number

License Retrieval: The system automatically obtains a license based on registration information
Dashboard Access: Access the main LogZilla interface and dashboards

Installation Process

Prerequisites Check:

```
# Verify Docker is installed and running
docker --version
systemctl status docker

# Ensure sufficient system resources
free -h  # Check available RAM
nproc    # Check CPU cores

# CRITICAL: Verify LogZilla is NOT already installed
logzilla version 2>/dev/null && echo "ERROR: LogZilla already installed! Use upgrade procedure
instead."
```

Installation Steps:

Extract Package:

```
# Navigate to transfer location
cd /tmp

# Extract the offline package
tar xzvf logzilla-v6.x.y.tar.gz
```

This creates a directory named `logzilla-v6.x.y` containing:

- Docker image archives (`.tar.gz` files)
- Installation script (`kickstart.sh`)
- Version information (`version.txt`)
- Package manifest

Run Installation Script:

```
# Navigate to extracted directory
cd logzilla-v6.x.y

# Execute installation with root privileges
sudo bash kickstart.sh
```

Installation Process: The `kickstart.sh` script automatically:

- Verifies system requirements (CPU, RAM, Docker)
- Loads all Docker images from the package

- Executes `logzilla install --version <version> --offline`
- Configures initial system settings

Post-Installation Setup:

```
# Verify installation
logzilla version
```

Installation Output Example:

```
Checking system requirements...
✓ CPU cores: 4 (minimum 2 required)
✓ RAM: 8GB (minimum 4GB required)
✓ Docker: 20.10.x (supported version)

Loading Docker images...
✓ logzilla-runtime:v6.x.y
✓ logzilla-front:v6.x.y
✓ postgres:15.2-alpine
✓ redis:6.2.6-alpine

Starting LogZilla installation...
LogZilla successfully installed!
```

Complete Upgrade Example

This example demonstrates a complete offline upgrade from version 6.28.0 to 6.31.8 in an air-gapped environment.

Pre-Upgrade Status

Check Current Version:

```
root@logzilla-server:/tmp$ logzilla version
v6.28.0
```

Verify Air-Gapped Environment:

```
root@logzilla-server:~$ ping 8.8.8.8
ping: connect: Network is unreachable
```

Package Extraction

Extract Offline Package:

```
root@logzilla-server:~$ cd /tmp
root@logzilla-server:/tmp$ tar xzvf logzilla-v6.31.8.tar.gz
logzilla-v6.31.8/
logzilla-v6.31.8/kickstart.sh
logzilla-v6.31.8/library-influxdb:1.8.10-alpine.tar.gz
logzilla-v6.31.8/library-postgres:15.2-alpine.tar.gz
logzilla-v6.31.8/library-redis:6.2.6-alpine.tar.gz
logzilla-v6.31.8/library-telegraf:1.20.4-alpine.tar.gz
logzilla-v6.31.8/logzilla-etcd:v3.5.7.tar.gz
logzilla-v6.31.8/logzilla-front:v6.31.8.tar.gz
logzilla-v6.31.8/logzilla-mailer:v6.31.8.tar.gz
logzilla-v6.31.8/logzilla-runtime:v6.31.8.tar.gz
logzilla-v6.31.8/logzilla-sec:v6.31.8.tar.gz
logzilla-v6.31.8/logzilla-syslogng:v6.31.8.tar.gz
```

Upgrade Execution

Run Upgrade Command:

```
root@logzilla-server:/tmp$ logzilla upgrade --offline-dir /tmp/logzilla-v6.31.8
```

Upgrade Process Output:

```
lz.manager INFO     Loading /tmp/logzilla-v6.31.8/library-influxdb:1.8.10-alpine.tar.gz ...
lz.manager INFO     Loading /tmp/logzilla-v6.31.8/library-postgres:15.2-alpine.tar.gz ...
lz.manager INFO     Loading /tmp/logzilla-v6.31.8/library-redis:6.2.6-alpine.tar.gz ...
lz.manager INFO     Loading /tmp/logzilla-v6.31.8/library-telegraf:1.20.4-alpine.tar.gz ...
lz.manager INFO     Loading /tmp/logzilla-v6.31.8/logzilla-etcd:v3.5.7.tar.gz ...
lz.manager INFO     Loading /tmp/logzilla-v6.31.8/logzilla-front:v6.31.8.tar.gz ...
lz.manager INFO     Loading /tmp/logzilla-v6.31.8/logzilla-mailer:v6.31.8.tar.gz ...
lz.manager INFO     Loading /tmp/logzilla-v6.31.8/logzilla-runtime:v6.31.8.tar.gz ...
lz.manager INFO     Assuming version v6.31.8
lz.manager INFO     Loading /tmp/logzilla-v6.31.8/logzilla-sec:v6.31.8.tar.gz ...
lz.manager INFO     Loading /tmp/logzilla-v6.31.8/logzilla-syslogng:v6.31.8.tar.gz ...

Starting LogZilla upgrade to 'v6.31.8'
lz.setup   INFO     Setup init
lz.docker  INFO     Decommission: queryupdatemodule, front
lz.docker  INFO     Decommission: httpreceiver, celerybeat, queryeventsmodule-1
lz.docker  INFO     Decommission: triggersactionmodule, gunicorn, aggregatesmodule-1
lz.docker  INFO     Decommission: storagemodule-1
lz.docker  INFO     Decommission: logcollector, telegraf, tornado, mailer
lz.docker  INFO     Decommission: syslog
lz.docker  INFO     Decommission: postgres
```

```
lz.docker  INFO     Decommission: redis, influxdb
lz.docker  INFO     Decommission: etcd
lz.docker  INFO     Start: etcd
lz.docker  INFO     Start: influxdb, redis
lz.docker  INFO     Start: postgres
lz.containers.postgres INFO     Running postgres v15 migration ...
lz.containers.postgres INFO     Postgres v15 migration finished successfully

Operations to perform:
  Apply all migrations: admin, api, auth, contenttypes, django_celery_beat, sessions
Running migrations:
  No migrations to apply.

lz.setup   INFO     Update group permissions
lz.setup   INFO     Update internal triggers
lz.docker  INFO     Start: syslog
lz.docker  INFO     Start: logcollector, tornado, telegraf, mailer
lz.docker  INFO     Start: storagemodule-1
lz.docker  INFO     Start: triggersactionmodule, celeryworker, dictionarymodule
lz.docker  INFO     Start: celerybeat, httpreceiver, queryeventsmodule-1
lz.docker  INFO     Start: queryupdatemodule, front
lz.docker  INFO     Start: watcher

LogZilla successfully upgraded to 'v6.31.8'
```

Post-Upgrade

Verify New Version:

```
root@logzilla-server:/tmp$ logzilla version
v6.31.8
```

Test Log Ingestion:

```
root@logzilla-server:/tmp$ logger "Test message after upgrade"
```

Then log into the LogZilla web interface and search for `Test message after upgrade` to verify log ingestion is working correctly.

Troubleshooting

Common Issues

Package Extraction Fails:

```
# Check file integrity
ls -la logzilla-v6.x.y.tar.gz

# Verify sufficient disk space
df -h /tmp

# Re-extract with verbose output
tar -xzvf logzilla-v6.x.y.tar.gz
```

Docker Image Loading Issues:

```
# Check Docker service status
systemctl status docker

# Verify Docker disk space
docker system df
```

Upgrade Command Fails:

```
# Verify offline directory path
ls -la /tmp/logzilla-v6.x.y/

# Check system resources
free -h && df -h
```

Post-Upgrade Issues:

```
# Check service logs
logzilla logs --tail 50

# Restart services if needed
logzilla restart
```