Automated Backups

Data integrity is critical for a public-facing knowledge base. This page documents the automated backup strategy implemented to prevent data loss due to system failures or accidental deletions.

1. Local Backup Script

A customized bash script is used to compress the DokuWiki data and configuration files. This script also handles the rotation of old backups to manage disk space.

Backup Script Path: `/usr/local/bin/cloud-backup.sh`

```
#!/bin/bash

# Configuration
BACKUP_DIR="/var/backups/dokuwiki_cloud"
SOURCE_DIR="/var/www/html/dokuwiki" # Adjust based on your actual path
DATE=$(date +%Y-%m-%d_%H-%M)
FILE_NAME="cloud_wiki_$DATE.tar.gz"

# Create directory if it doesn't exist
mkdir -p "$BACKUP_DIR"

# Create the compressed backup
tar -czf "$BACKUP_DIR/$FILE_NAME" "$SOURCE_DIR"

# Delete backups older than 14 days
find "$BACKUP_DIR" -type f -name "*.tar.gz" -mtime +14 -exec rm {} \;
```

2. Automation (Cron Job)

To ensure the backup runs without manual intervention, a cron job is scheduled to execute the script every night at 03:00 AM.

```
# Open the root crontab
sudo crontab -e

# Add the following line
0 3 * * * /usr/local/bin/cloud-backup.sh > /dev/null 2>&1
```

3. OCI Infrastructure Backups

Beyond file-level backups, the **Oracle Cloud Infrastructure (OCI)** is configured to perform

automated snapshots of the entire boot volume.

- **Policy:** “Gold” or “Silver” Backup Policy.
- **Retention:** Daily backups kept for 7 days, weekly for 4 weeks.
- **Recovery:** In case of a total OS failure, the entire instance can be restored to a previous state within minutes using these volume backups.

4. Off-Site Storage Strategy (Optional)

For maximum security, the local backups can be synchronized to an off-site location (e.g., S3-compatible storage or another VPS) using **rclone**.

```
# Example command for syncing to a remote storage
rclone sync /var/backups/dokuwiki_cloud remote:my-backup-bucket
```

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