

MEAN Stack Application Runbook

1. Introduction

This runbook provides a comprehensive guide for managing, troubleshooting, and maintaining the MEAN stack application. It includes details about servers, URLs, and contact information.

2. Application Overview

Application Name: MyMeanApp

Version: 1.0.0

Description: A web application built using MongoDB, Express.js, Angular, and Node.js.

3. Server Information

3.1. Development Environment

- **Server Name:** dev-server.mymeanapp.com
- **IP Address:** 192.168.1.10
- **OS:** Ubuntu 20.04
- **Node.js Version:** 18.x
- **MongoDB Version:** 5.0
- **Web Server:** Nginx

3.2. Staging Environment

- **Server Name:** staging-server.mymeanapp.com
- **IP Address:** 192.168.1.11
- **OS:** Ubuntu 20.04
- **Node.js Version:** 18.x
- **MongoDB Version:** 5.0
- **Web Server:** Nginx

3.3. Production Environment

- **Server Name:** prod-server.mymeanapp.com
- **IP Address:** 192.168.1.12
- **OS:** Ubuntu 22.04
- **Node.js Version:** 18.x
- **MongoDB Version:** 5.0
- **Web Server:** Nginx

4. URLs

4.1. Development

- **Frontend URL:** http://dev-server.mymeanapp.com
- **Backend API URL:** http://dev-server.mymeanapp.com/api
- **Admin Panel URL:** http://dev-server.mymeanapp.com/admin

4.2. Staging

- **Frontend URL:** http://staging-server.mymeanapp.com
- **Backend API URL:** http://staging-server.mymeanapp.com/api
- **Admin Panel URL:** http://staging-server.mymeanapp.com/admin

4.3. Production

- **Frontend URL:** `http://www.mymeanapp.com`
- **Backend API URL:** `http://api.mymeanapp.com`
- **Admin Panel URL:** `http://admin.mymeanapp.com`

5. Deployment Instructions

5.1. Development

1. **Pull Latest Code:**

```
``bash
git pull origin develop
...
```

2. **Install Dependencies:**

```
``bash
cd /path/to/app
npm install
...
```

3. **Build Angular App:**

```
``bash
cd /path/to/angular-app
ng build --configuration=development
...
```

4. **Restart Services:**

```
```bash
sudo systemctl restart mymeanapp.service
```
```

5.2. Staging

1. **Pull Latest Code:**

```
```bash
git pull origin staging
```
```

2. **Install Dependencies:**

```
```bash
cd /path/to/app
npm install
```
```

3. **Build Angular App:**

```
```bash
cd /path/to/angular-app
ng build --configuration=staging
```
```

4. **Restart Services:**

```
```bash
sudo systemctl restart mymeanapp.service
```
```

5.3. Production

1. **Pull Latest Code:**

```
```bash
git pull origin main
```
```

2. ****Install Dependencies:****

```
```bash
cd /path/to/app
npm install
```
```

3. ****Build Angular App:****

```
```bash
cd /path/to/angular-app
ng build --prod
```
```

4. ****Restart Services:****

```
```bash
sudo systemctl restart mymeanapp.service
```
```

6. Backup Procedures

6.1. Database Backup

- ****Command to Backup MongoDB:****

```
```bash
mongodump --uri="mongodb://username:password@prod-
server.mymeanapp.com:27017/mydatabase" --out=/backup/$(date +%Y%m%d%H%M%S)
```

...

- \*\*Backup Location:\*\* `/backup/`

### ### 6.2. Application Backup

- \*\*Command to Backup Application Files:\*\*

```
```bash
```

```
tar -czvf /backup/mymeanapp-$(date +%Y%m%d%H%M%S).tar.gz /path/to/app
```

```
```
```

- \*\*Backup Location:\*\* `/backup/`

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## ## 7. Monitoring and Logging

- \*\*Monitoring Tool:\*\* Prometheus / Grafana

- \*\*Log Location:\*\* `/var/log/mymeanapp/`

- \*\*Log Rotation:\*\* Configured to rotate logs daily

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## ## 8. Troubleshooting

### ### 8.1. Common Issues

- \*\*Application Not Starting:\*\*

- Check application logs: `tail -f /var/log/mymeanapp/app.log`

- Verify Node.js and MongoDB service status: `sudo systemctl status nodejs` and `sudo systemctl status mongod`

- **\*\*API Errors:\*\***

- Check API logs for errors: `tail -f /var/log/mymeanapp/api.log`
- Ensure MongoDB is running and accessible.

### ### 8.2. Contact Information

- **\*\*DevOps Team:\*\***

- **\*\*Name:\*\*** John Doe
- **\*\*Email:\*\*** devops@mymeanapp.com
- **\*\*Phone:\*\*** +1-555-123-4567

- **\*\*Development Team:\*\***

- **\*\*Name:\*\*** Jane Smith
- **\*\*Email:\*\*** devteam@mymeanapp.com
- **\*\*Phone:\*\*** +1-555-234-5678

- **\*\*Support Team:\*\***

- **\*\*Name:\*\*** Support Team
- **\*\*Email:\*\*** support@mymeanapp.com
- **\*\*Phone:\*\*** +1-555-345-6789

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### ## 9. Maintenance Schedule

- **\*\*Weekly Updates:\*\*** Every Sunday at 2 AM
- **\*\*Monthly Backups:\*\*** First Monday of each month
- **\*\*Quarterly Reviews:\*\*** First day of each quarter

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## ## 10. Security

- **Firewall Rules:** Only allow HTTP/HTTPS traffic on port 80/443
- **SSH Access:** Restricted to specific IPs
- **Encryption:** Data encrypted in transit (SSL/TLS) and at rest

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**\*\*End of Runbook\*\***

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