# n8n Troubleshooting & Best Practices

## **Fix Problems, Build Better**

## **Out The Mud Work Shops**



## 🔧 Common Problems & Solutions

## "My workflow stopped working"

#### **Check These First:**

#### 1. Credentials Expired?

- Click the credential
- Re-authenticate
- Test connection

#### 2. Hit Rate Limits?

- o Add "Wait" node (5 seconds)
- Use "Split in Batches" node
- Check API limits

#### 3. Data Format Changed?

- o Check recent executions
- Look for red error nodes
- Update field mappings

## "It's running multiple times"

#### Solutions:

- Add "Remove Duplicates" node after trigger
- Check trigger settings for duplicates
- Use "Merge" node carefully
- Add cooldown period with "Wait" node

## "Can't connect two apps"

## Workarounds:

### 1. Use Webhooks

- o App A → Webhook → n8n
- o n8n → Webhook → App B

## 2. Use Google Sheets as Bridge

- App A → Google Sheets
- o Google Sheets → App B

### 3. HTTP Request Node

- o For any app with an API
- o More flexible than pre-built nodes

## Debug Like a Pro

## 1. Use "Stop and Error" Node

```
[Your Flow] → [Stop and Error] → [See Data Here]
```

Shows exactly what data is flowing through

#### 2. Test with ONE Item

- Don't test with 100 emails
- Use "Limit" parameter
- Start small, scale up

### 3. Check Execution History

- Click "Executions" tab
- Red = failed
- Green = success
- · Click to see details

#### 4. Add Notes to Nodes

- Right-click any node
- Add note
- Explain what it does
- Future you will thank you

## **Best Practices**

## **Naming Conventions**

X Bad: Node, Node1, Node2

☑ Good: Get Customer Email, Check VIP Status, Send Premium Offer

## **Workflow Organization**

- One workflow = one process
- Group related workflows in folders
- Use tags for easy finding
- Export backups monthly

#### **Error Handling**

```
[{\tt Main Workflow}] \ \rightarrow \ [{\tt Error Trigger}] \ \rightarrow \ [{\tt Email Me}] \ \rightarrow \ [{\tt Log to Sheet}]
```

Never let workflows fail silently!

## **OF** Performance Tips

## Make It Faster

- 1. Batch Operations
  - o Process 10 items at once
  - Not 1 at a time

## 2. Smart Scheduling

- Run heavy workflows at night
- Spread throughout day
- Avoid top of hour (everyone does this)

#### 3. Caching Strategy

- Store frequently used data
- Update cache periodically
- o Don't fetch same data repeatedly

## Essential Expressions

#### **Date & Time**

```
// Today's date
{{new Date().toISOString().split('T')[0]}}

// Add 7 days
{{new Date(Date.now() + 7 * 24 * 60 * 60 * 1000).toISOString()}}

// Format date nicely
{{new Date($json.date).toLocaleDateString()}}
```

### **Text Manipulation**

```
// Combine first and last name
{{$json.firstName}} {{$json.lastName}}

// Make email lowercase
{{$json.email.toLowerCase()}}

// Get first word
{{$json.text.split(' ')[0]}}
```

## **Numbers & Money**

```
// Format as currency
${{parseFloat($json.amount).toFixed(2)}}

// Calculate tax
{{$json.price * 1.08}}

// Round to nearest 10
{{Math.round($json.number / 10) * 10}}
```

## **Conditionals**

```
// If field exists, use it, otherwise default
{{$json.name ? $json.name : "Friend"}}
```

```
// Check if number is big
{{$json.amount > 100 ? "Big Sale!" : "Regular Sale"}}
```

## When Things Go Wrong

## **The Debug Checklist**

- 1. ✓ Is workflow active?
- 2. ✓ Are credentials valid?
- 3. ✓ Is trigger configured correctly?
- 4. ✓ Check execution history
- 5. ✓ Test each node individually
- 6. ✓ Look for red error badges
- 7. ✓ Read error messages carefully

#### **Reading Error Messages**

- 401 Unauthorized = Check credentials
- 429 Too Many Requests = Add delays
- 500 Server Error = Their problem, not yours
- Cannot read property = Data structure changed

## Monitoring Your Automations

## **Weekly Health Check**

- · Review execution history
- · Check for failed runs
- Look for patterns in errors
- Update credentials proactively

## **Monthly Optimization**

- · Remove unused workflows
- Combine similar workflows
- Update deprecated nodes
- Clean up test data

## Learning Resources

## **Built-in Help**

- Hover over any field
- Click (?) icons
- Node documentation panel
- Example workflows

### **Community Resources**

- n8n Community Forum
- YouTube tutorials
- Template library
- · Discord community

# **Level Up Techniques**

#### **Variables Between Nodes**

```
// Set variable in one node
$setVariable('customerType', 'VIP')

// Use in another node
$getVariable('customerType')
```

## **Loop Through Items**

```
[Get Items] → [Split In Batches] → [Process Each] → [Loop Back]
```

## **Parallel Processing**

# Signs You're Getting Good

- V Workflows run for weeks without issues
- Vou debug problems in minutes
- Vou help others in community
- ✓ You think "I can automate that!"
- Vour business runs itself

**Remember**: Every error is a learning opportunity. Every automation is a step toward freedom.

Rise above the technical challenges. Master your automation destiny.