

RAPS Developer Quickstart

Get Running in 5 Minutes

Document Information

Version: 2.1
RAPS CLI: v4.2.1
Updated: January 2026
Pages: 6

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1 Installation

Get RAPS CLI installed quickly with your preferred method:

1.1 Option 1: Homebrew (macOS)

```
# Add the tap
brew tap autodesk-platform-services/homebrew-tap

# Install RAPS
brew install raps
```

1.2 Option 2: Scoop (Windows)

```
# Add the bucket
scoop bucket add raps https://github.com/autodesk-platform-services/scoop-bucket

# Install RAPS
scoop install raps
```

1.3 Option 3: Direct Download

Download from GitHub Releases:

- **Windows:** raps-windows-x64.zip
- **macOS:** raps-macos-x64.tar.gz (Intel) or raps-macos-arm64.tar.gz (Apple Silicon)
- **Linux:** raps-linux-x64.tar.gz

1.4 Option 4: Cargo (All Platforms)

```
# Install from crates.io
cargo install raps

# Or from source
cargo install --git https://github.com/autodesk-platform-services/raps
```

2 Verify Installation

```
# Check version
raps --version

# View help
raps --help
```

3 Create Your APS App

1. Go to APS Developer Portal
2. Create a new app
3. Note your **Client ID** and **Client Secret**
4. Add callback URL: <http://localhost:8080/callback>

4 Authentication Setup

4.1 Method 1: Environment Variables

```
export APS_CLIENT_ID="your_client_id_here"
export APS_CLIENT_SECRET="your_client_secret_here"
```

4.2 Method 2: Interactive Configuration

```
# Configure credentials interactively
raps config set

# Or set individual values
raps config set client-id YOUR_CLIENT_ID
raps config set client-secret YOUR_CLIENT_SECRET
```

4.3 Method 3: Profile Management

```
# Create a named profile
raps profile create my-app \
--client-id YOUR_CLIENT_ID \
--client-secret YOUR_CLIENT_SECRET \
--scopes "data:read\u0026viewables:read"

# Switch to profile
raps profile use my-app
```

5 Authenticate

5.1 Client Credentials (2-legged OAuth)

```
# Authenticate with client credentials
raps auth client-credentials

# Or with specific scopes
raps auth client-credentials --scopes "data:read\u0026viewables:read"
```

5.2 Browser-based (3-legged OAuth)

```
# Launch browser authentication
raps auth browser

# Or with specific scopes
raps auth browser --scopes "data:read\u0026data:write\u0026viewables:read"
```

6 Your First Commands

6.1 Check Authentication Status

```
raps auth status
```

6.2 List Your Hubs

```
# List accessible hubs
raps dm hubs

# Get detailed output
raps dm hubs --output table
```

6.3 Upload and Translate a File

```
# Upload file to bucket
raps oss upload my-bucket ./model.rvt

# Start translation
raps translate urn:adsk.objects:os.object:my-bucket/model.rvt

# Check translation status
raps translate status URN

# Download derivatives
raps translate download URN
```

7 Quick Reference

7.1 Essential Commands

rapslight Command	Description
<code>raps auth status</code>	Check authentication status
<code>raps dm hubs</code>	List accessible hubs
<code>raps dm projects HUB_ID</code>	List projects in a hub
<code>raps oss buckets</code>	List OSS buckets
<code>raps translate URN</code>	Start file translation
<code>raps -help</code>	Get command help

7.2 Common Options

- `--output table` - Table format output
- `--output json` - JSON format output
- `-profile PROFILE_NAME` - Use specific profile
- `-verbose` - Detailed logging
- `-help` - Command help

8 Troubleshooting

8.1 Authentication Issues

```
# Clear cached tokens
raps auth logout

# Re-authenticate
raps auth client-credentials --force

# Check token details
raps auth token --decode
```

8.2 Network Issues

```
# Test with retry  
raps dm hubs --retry 3  
  
# Use debug mode  
raps dm hubs --debug  
  
# Check connectivity  
raps health check
```

9 Next Steps

1. **Complete Authentication Guide** - Master OAuth flows
2. **API Selection Guide** - Choose the right APIs
3. **MCP Integration** - AI assistant integration
4. **Migration Guide** - Moving from Forge

Need Help?

support@rapscli.xyz | Discord: discord.gg/raps | rapscli.xyz

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