



# SQL Operations Studio - a new multi-platform tool for SQL Server database development, administration, and monitoring

Marek Masko, Principal Database Analyst, Sabre

Moderated By: Philip Seamark

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# SQL Operations Studio - a new multi-platform tool for SQL Server database development, administration, and monitoring

Marek Masko, Principal Database Analyst, Sabre



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# Marek Masko

## Microsoft Data Platform Professional

- Principal Database Analyst at Sabre
- Working with SQL Server since 2010
- SQL Database Administrator, Developer, and Architect
- MCSE: Data Platform, MCSE: Data Management and Analytics

## My Blog:

<http://blog.sqlterritory.com/>



**Microsoft**  
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Solutions Expert  
Data Platform

# Agenda

- 1 What is Microsoft SQL Operations Studio?
- 2 Demonstration of functionalities
- 3 What's next?

# SQL Operations Studio (Ops Studio)

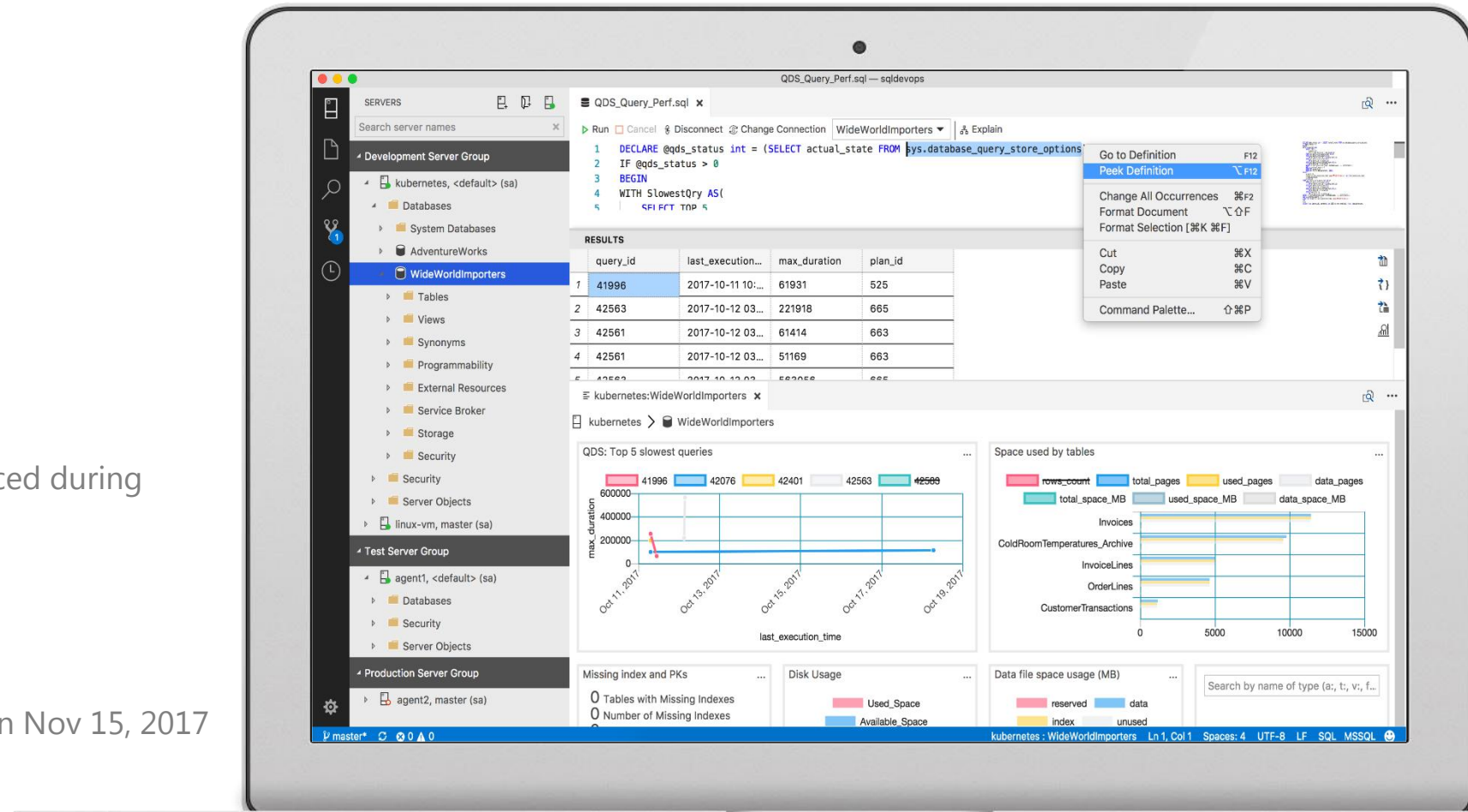


## First Announcement

SQL Operations Studio has been announced during Pass Summit 2017 conference in Seattle.

## First Release Preview

First preview version has been released on Nov 15, 2017





# Created by SQL Tools Team

## Graphical User Interface

- SQL Server Management Studio
- SQL Server Data Tools
- mssql for Visual Studio Code

## Command Line Interface

- mssql-tools (sqlcmd & bcp)
- mssql-scripter
- mssql-cli
- sqlpackage



# Purpose

## Multi-platform support

After release of SQL Server 2017 new tools are needed.

## Lightweight and Extensible

A tool that can be extensible in an easy way.

## For users of any kind

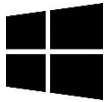
A solution that will meet the needs of each user.

## To manage large SQL estates

An application that supports different kind of work automation.



# Multi-platform



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Windows 10 (64-bit)

Windows 8.1 (64-bit)

Windows 8 (64-bit)

Windows 7 (SP1) (64-bit)

Windows Server 2016

Windows Server 2012 R2 (64-bit)

Windows Server 2012 (64-bit)

Windows Server 2008 R2 (64-bit)



- 
- Red Hat Enterprise Linux 7.4
  - Red Hat Enterprise Linux 7.3
  - SUSE Linux Enterprise Server v12 SP2
  - Ubuntu 16.04



- 
- macOS 10.13 High Sierra
  - macOS 10.12 Sierra

# For Development and Operations



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## Tool for Database Developers

- Schema browsing and modeling
- Query execution and optimization
- Data editing



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## Tool for Database Administrators

- Server state monitoring
- Configuration changing
- Issue troubleshooting
- Alerting
- Security management

# SQLOps is on GitHub

## Free and Open Source

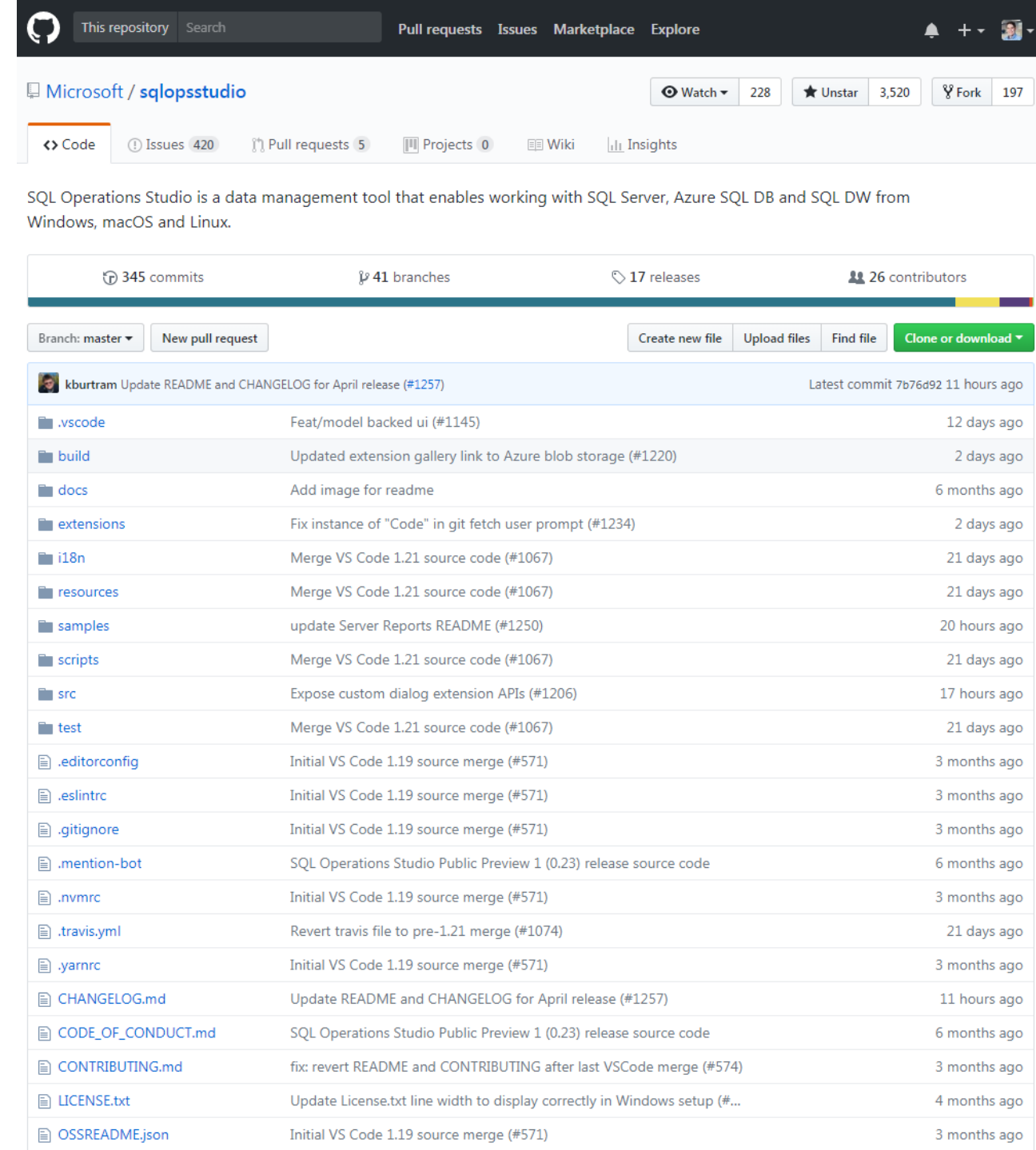
<https://github.com/Microsoft/sqlopsstudio>

## Very popular with the community

- 228 watches
- 3,520 stars
- 197 forks
- 876 issues reported till yesterday (456 closed)
- 345 commits

## Often released

- 17 releases



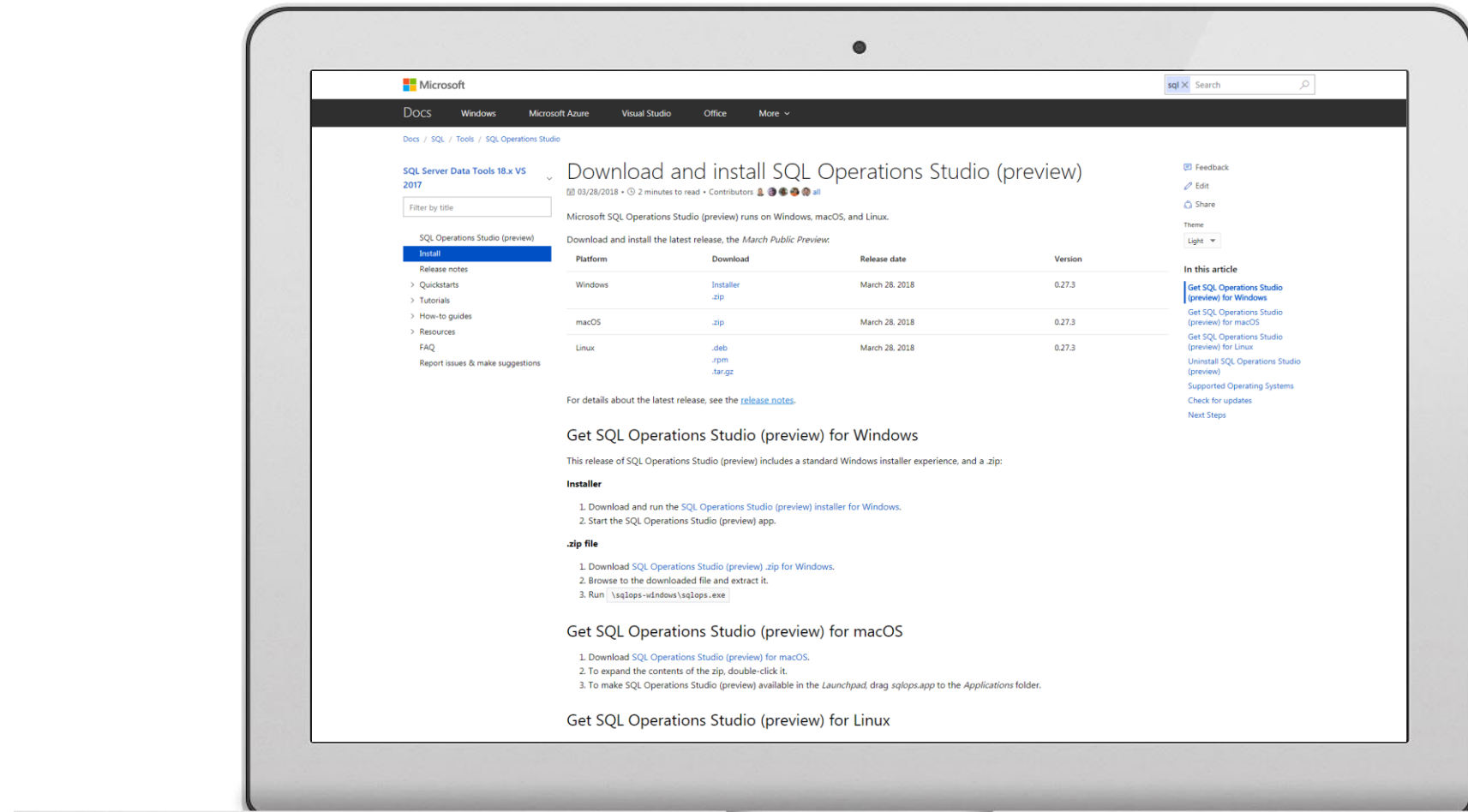
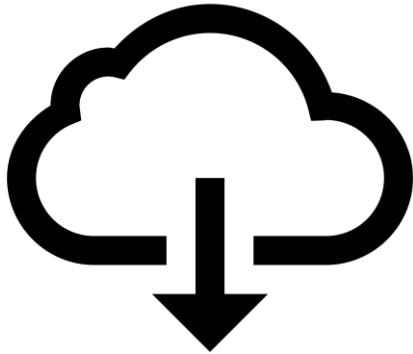
The screenshot shows the GitHub repository page for Microsoft/sqlopsstudio. At the top, there's a navigation bar with links to Pull requests, Issues, Marketplace, and Explore. Below this, the repository name is displayed along with statistics: 228 Watch, 3,520 Unstar, and 197 Fork. The main content area shows the repository description: "SQL Operations Studio is a data management tool that enables working with SQL Server, Azure SQL DB and SQL DW from Windows, macOS and Linux." Below the description, there's a summary bar showing 345 commits, 41 branches, 17 releases, and 26 contributors. A table lists the repository's files and folders, including .vscode, build, docs, extensions, i18n, resources, samples, scripts, src, test, .editorconfig, .eslintrc, .gitignore, .mention-bot, .nvimrc, .travis.yml, .yarnrc, CHANGELOG.md, CODE\_OF\_CONDUCT.md, CONTRIBUTING.md, LICENSE.txt, and OSSREADME.json. Each entry includes a brief description of the file's purpose and the time since the last commit.

File/Folder	Description	Last Commit Time
.vscode	Feat/model backed ui (#1145)	12 days ago
build	Updated extension gallery link to Azure blob storage (#1220)	2 days ago
docs	Add image for readme	6 months ago
extensions	Fix instance of "Code" in git fetch user prompt (#1234)	2 days ago
i18n	Merge VS Code 1.21 source code (#1067)	21 days ago
resources	Merge VS Code 1.21 source code (#1067)	21 days ago
samples	update Server Reports README (#1250)	20 hours ago
scripts	Merge VS Code 1.21 source code (#1067)	21 days ago
src	Expose custom dialog extension APIs (#1206)	17 hours ago
test	Merge VS Code 1.21 source code (#1067)	21 days ago
.editorconfig	Initial VS Code 1.19 source merge (#571)	3 months ago
.eslintrc	Initial VS Code 1.19 source merge (#571)	3 months ago
.gitignore	Initial VS Code 1.19 source merge (#571)	3 months ago
.mention-bot	SQL Operations Studio Public Preview 1 (0.23) release source code	6 months ago
.nvimrc	Initial VS Code 1.19 source merge (#571)	3 months ago
.travis.yml	Revert travis file to pre-1.21 merge (#1074)	21 days ago
.yarnrc	Initial VS Code 1.19 source merge (#571)	3 months ago
CHANGELOG.md	Update README and CHANGELOG for April release (#1257)	11 hours ago
CODE_OF_CONDUCT.md	SQL Operations Studio Public Preview 1 (0.23) release source code	6 months ago
CONTRIBUTING.md	fix: revert README and CONTRIBUTING after last VSCode merge (#574)	3 months ago
LICENSE.txt	Update License.txt line width to display correctly in Windows setup (#...	4 months ago
OSSREADME.json	Initial VS Code 1.19 source merge (#571)	3 months ago

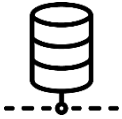


# How to get it?

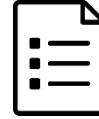
<https://aka.ms/sqlopsstudio>



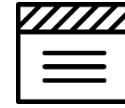
# Basic Core Functionality



Connect to SQL Server



Discover Databases schema  
objects



SQL Editor with IntelliSense



Code Snippets



Execute query and view  
results

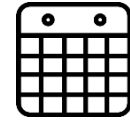
# New Features



Color Themes



Object definition Preview



Enhanced Result Grid



Extension Marketplace



Server and Database  
Dashboards with Insight  
widgets



Integrated terminals



DEMO Time!

# What's next?

GA planned for June

## Developing extensibility platform

- User Interface extensibility
- Insights extensibility

## Adding SQL Server Agent support

## Adding SQL Server Profiler functionality

## Fixing reported bugs

- Charts' issues
- Query Editor
- IntelliSense



A man with short dark hair, wearing a plaid shirt and large over-ear headphones, is seated at a desk in profile, looking towards the right. His hands are on a computer keyboard. The desk is cluttered with a computer monitor, a desk lamp, a cup, and a bottle. The background shows a window with a grid pattern. The entire image is overlaid with a semi-transparent teal/blue gradient.

QUESTIONS?

Coming up next...

# SQL Server on Linux and Docker

Marko Hotti

# THANK YOU FOR ATTENDING



@sqlpass  
#sqlpass



@PASScommunity



# 24 HOURS OF \*PASS