

# AWS Tutorial: Automating Developer Tools Tutorial

This advanced AWS developer tools training prepares learners to automate the time-consuming, error-prone, and manual steps of the cloud development process with AWS tools and services. This course shows you the tools AWS has for running code without the need for provisioning or managing any servers and gives you practice with the AWS services that can model, visualize, and automate every step that goes into releasing your software.

[CBT Nuggets course material](#) →

## WEEK 1

### Build Container Images with Docker and AWS CodeBuild 151 min.

Introduction to AWS CodeBuild and Docker	4
Create an Example Project using AWS Tools for PowerShell	10
Build and Test Container Image with Docker Desktop	9
Import Project Files to AWS CodeCommit and Create AWS CodeBuild Project	10
Craft AWS CodeBuild buildspec.yml and Run Project	9
Test Container Deployment in AWS Fargate	7

### Package and Publish JavaScript Modules to NPM Registry with AWS CodeBuild

Overview	1
Introduction to AWS CodeBuild and NPM Registry	7
Review Useful Developer Tools for JavaScript Development	8
Create Sample JavaScript Module in AWS CodeCommit	10
Create AWS CodeBuild Project for JavaScript Module	6
Craft a Buildspec.yml for NPM and AWS CodeBuild	8
Create NPM Registry Automation Token in AWS Systems Manager Parameter Store	8
Invoke Build in AWS CodeBuild and Validate NPM Publishing Status	3
Clean Up NPM and AWS Cloud Resources	6

### Build and Deploy PowerShell Applications to the Serverless Application Repository (SAR)

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Introduction to AWS Serverless Application Repository and PowerShell	6
Setting Up Serverless Container Development Environment	8

Install Dependencies for Serverless Application Packaging	7
Create a Serverless Application with PowerShell	6
Package Serverless Application with SAM CLI	6
Publish Serverless Application to Serverless Application Registry (SAR)	9

## WEEK 2

**129 min.**

Manage AWS Serverless Application Repository with PowerShell	5
Review and Call to Action	2

### **Build and Publish PowerShell Modules with AWS CodeBuild**

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Introduction to AWS CodeBuild and Publishing PowerShell Modules	9
Create PowerShell Module and Build Script in AWS CodeCommit	13
Create an AWS CodeBuild Project for PowerShell Module	9
Crafting the AWS CodeBuild Buildspec.yml File for PowerShell Projects	12
Create NuGet API Key and Configure Systems Manager Parameter Store	12

### **Customize Your PowerShell for Efficient AWS Automation**

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Introduction to Customizing PowerShell for AWS	12
Configure PowerShell Development Environment on EC2	12

Customize PowerShell Prompt Function with AWS Information	9
Improve Performance of PowerShell Prompt Function	10
Colorize Text for AWS Shell Information	11
Insert Icons and Right-Justify Text in PowerShell	8