DevOpsSchool

Course curriculum · November 2026

LEVEL 04 OF 04 · ADVANCED

# Team Build 2022 Advanced Training

Scale and govern Azure DevOps Server build infrastructure and plan upgrades and migrations from older TFS builds.

| | | |
|---|---|---|
| LIVE ONLINE<br>**Max 8-10 hours** | CORPORATE (DAY-WISE)<br>**5 days · Days 1-5** | SELF-PACED VIDEO<br>**1-year LMS access** |
| BATCH SIZE<br>**Max 10 learners** | NEXT BATCHES<br>**1st of every month · weekends: first Saturday** | CERTIFICATE<br>**Verifiable certificate of completion** |

| Foundation | Essential | Intermediate | Advanced |
|---|---|---|---|
| 1 day · Included | 2 days · Included | 3 days · Included | 5 days · This curriculum |

## INSIDE THIS CURRICULUM


| | |
|---|---|
| What you will achieve | Outcomes and level focus |
| Who should attend | Audience and prerequisites |
| Agenda | 45 topics · Foundation to Advanced |
| Hands-on labs | 4 labs |
| Formats and fees | Live, 1:1, self-paced, corporate |
| Trainer and reviews | Rajesh Kumar |
| Enrolment | Batches, payment, contacts |


## WHY DEVOPSSCHOOL

- Rated 4.6 on Google
- 1,500+ verifiable certificates issued in the public registry
- Trainer Rajesh Kumar: 20 years in industry
- Small batches: max 10 learners, every session recorded

**Course page:** www.devopsschool.com/courses/teamfoundationserver/team-build-2022-advance-training.html
**Talk to us:** WhatsApp +91 99057 40781 · +1 (469) 756-6329 · contact@DevOpsSchool.com · reply within 1 hour

OUTCOMES

## What you will achieve

By the end of the Team Build 2022 course path, you will be able to:

1

### Automate builds on-premises

Run reliable classic and YAML build pipelines on Azure DevOps Server 2022 with self-hosted agents.

2

### Deliver with quality gates

Validate pull requests, publish artifacts and deploy through approved multi-stage pipelines.

3

### Govern and modernise builds

Scale agents, secure pipelines and migrate legacy TFS builds with confidence.

WHAT THE ADVANCED LEVEL ADDS

### Scale, governance, upgrades and migration

**Hands-on:** Governed pipelines at scale. Enforce a shared pipeline structure with extends, add caching and parallel jobs to cut build time and script agent pool management through the REST API.

WHO SHOULD ATTEND

- Experienced Team Build 2022 practitioners responsible for quality, security and scale.
- Senior engineers, architects and leads who design and troubleshoot Team Build 2022 solutions.
- Teams making Team Build 2022 an organisation-wide standard.

BEFORE YOU START

- The Intermediate level, or equivalent hands-on experience.
- You can already: Design multi-stage YAML and release pipelines with approvals, containers, secure connections and quality gates.
- Basic computer skills and a laptop with a stable internet connection for the live sessions and labs.
- This curriculum includes every earlier level, so it is complete on its own.

AGENDA · FOUNDATION TO ADVANCED

# Team Build 2022 Advanced Training agenda

45 topics. Each level builds on the one before it, so this curriculum lists every earlier level in full. Days are for corporate (day-wise) delivery; live online batches cover the same agenda in max 8-10 hours.

## DAY 1 — Foundation: Azure DevOps Server builds, agents and first pipelines

Included from Foundation

1. Build automation basics: why automate builds and how CI fits into Azure DevOps Server
2. Azure DevOps Server 2022: the on-premises successor to Team Foundation Server and its services
3. Architecture: application tier, SQL Server data tier, project collections and projects
4. Pipelines overview: classic build pipelines vs YAML pipelines and where Team Build fits today
5. Agents and agent pools: self-hosted agents, collection pools, project queues and agent capabilities
6. Installing a build agent: downloading the agent, config.cmd or config.sh, PAT authentication, running as a service
7. Source control options: Git repositories and TFVC and connecting a pipeline to a repository
8. First classic pipeline: build a .NET solution with the .NET Core or Visual Studio Build tasks
9. First YAML pipeline: azure-pipelines.yml with trigger, pool and steps
10. Build results: logs, the Tests tab, published artifacts and status badges

## DAY 2 — Essential: Tasks, triggers, variables, tests and artifacts

Included from Essential

11. Build tasks: .NET, MSBuild, Visual Studio Test, NuGet, npm, Maven and command-line tasks
12. Triggers: CI triggers with branch and path filters, scheduled builds and pipeline completion triggers
13. Pull request validation: Git branch policies with build validation and TFVC gated check-in
14. Variables: pipeline, predefined and secret variables and variable groups in the Library
15. Build numbering: build number formats and stamping assembly versions
16. Artifacts: publishing and downloading pipeline artifacts and file share drops
17. Testing in builds: running unit tests, publishing test results and code coverage
18. Packages: Azure Artifacts feeds, upstream sources and publishing NuGet and npm packages
19. Demands and capabilities: routing builds to agents that have the right tools
20. Retention policies: run retention, retained builds and cleaning agent workspaces
21. Notifications: build completion alerts, subscriptions and dashboards with build widgets

## DAY 3 — Intermediate: Multi-stage YAML, releases, containers and security

Included from Intermediate

22. YAML in depth: stages, jobs, steps, conditions, dependsOn and runtime expressions
23. YAML reuse: step, job and stage includes with parameters and extends for enforced pipeline structure
24. Multi-configuration and parallel builds: matrix strategies and parallel jobs
25. Container builds: building and pushing Docker images to a private registry
26. Release pipelines: classic releases, stages, deployment groups and pre-deployment approvals
27. Environments: YAML deployment jobs, approvals and checks
28. Service connections: Azure, Kubernetes, Docker registry and generic endpoints with scoped access
29. Secure files and secrets: certificates, signing keys and Key Vault-linked variable groups
30. Pipeline security: permissions, protected resources, pipeline authorisation and pool security

31. Code quality gates: SonarQube analysis and quality gate checks in pipelines
32. Troubleshooting builds: system.debug logs, agent diagnostics and common failure causes
33. Converting classic pipelines: exporting classic definitions to YAML step by step

**DAYS 4-5** **Advanced: Scale, governance, upgrades and migration** **New at this level**

34. Agent fleet design: pools per team, agent sizing, Windows and Linux agents and Docker-based agents
35. Scaling builds: parallel job capacity, pipeline caching, incremental builds and build acceleration
36. Governance: required pipeline structure with extends, branch protection and auditing pipeline changes
37. Automation: REST API and PowerShell to manage pipelines, agents and definitions at scale
38. Legacy migration: moving XAML builds and TFS-era build definitions to modern pipelines
39. Server upgrades: upgrading TFS or older Azure DevOps Server versions to 2022 and validating pipelines
40. Moving to the cloud: the Azure DevOps Data Migration Tool and pipeline considerations for Azure DevOps Services
41. Backup and recovery: scheduled SQL Server backups from the admin console and agent recovery
42. Security hardening: least-privilege service accounts, PAT hygiene, agent isolation and secret scanning
43. Supply chain security: signing artifacts, SBOM generation and dependency scanning in builds
44. Pipeline analytics: pass rate, duration and failure trend reports
45. Capstone: a governed multi-stage YAML pipeline from pull request validation to production release

PRACTICE

## Hands-on labs

You build these yourself during the course, guided by the trainer.

FOUNDATION

### Agent setup and first builds

Register a self-hosted Windows agent with Azure DevOps Server 2022 and build the same .NET solution with a classic pipeline and a YAML pipeline.

ESSENTIAL

### Validated pull request builds

Add a branch policy that runs a build with unit tests and coverage on every pull request and publishes versioned NuGet packages to an Azure Artifacts feed.

INTERMEDIATE

### Multi-stage pipeline with approvals

Convert a classic build to a multi-stage YAML pipeline that builds a container image, runs SonarQube checks and deploys to test and production environments with approvals.

ADVANCED

### Governed pipelines at scale

Enforce a shared pipeline structure with extends, add caching and parallel jobs to cut build time and script agent pool management through the REST API.

HOW YOU CAN LEARN

## Formats and fees

The same agenda in four formats. Fees are in Indian rupees as of November 2026; the course page shows them in your currency.

| FORMAT | DURATION | WHAT YOU GET | FEE |
|---|---|---|---|
| **Live & interactive (online)** | Max 8-10 hours | Instructor-led public batch of max 10 learners with demos, labs, Q&A and assignment review. Weekday batches start on the 1st of every month, weekend batches on the first Saturday of every month. | **INR 34,999** |
| **1:1 live training (online)** | Max 8-10 hours, one-to-one | The same agenda, taught one-to-one by the trainer. Starts immediately, without waiting for the next batch; sessions planned around your working hours, at your pace. | **INR 99,999** |
| **Self-paced video** | 1-year LMS access | All four Team Build 2022 levels, plus 20+ more courses and 50+ tools, at your own pace. | **INR 833/month** billed yearly at INR 9,996 |
| **Corporate (day-wise)** | 5 days for this level | A private batch for your team, on demand. Foundation 1 day, Essential 2, Intermediate 3, Advanced 5 (cumulative). | **Quote on request** |

ASSESSMENT AND CERTIFICATE

Your progress is checked through hands-on labs and assignments at every level. On completion you receive a DevOpsSchool certificate of completion with a unique credential ID that anyone can verify at devopsschool.com/certificates.

INCLUDED WITH EVERY LIVE BATCH

- Every live session is recorded and stays in your LMS for a year.
- Can't attend your batch? Move to next month's batch.
- Free demo class before you pay.
- Free 10-15 minute call with an advisor or the trainer to check the course fits you.

YOUR TRAINER

## Learn from Rajesh Kumar

Principal Architect, trainer and mentor in DevOps, SRE, DevSecOps and platform engineering, with 20 years across 8+ software MNCs, including Staff DevOps/SRE Engineer for a leading Japanese mobile-payment platform and Principal DevOps Architect and Manager in Europe.

Profile: www.rajeshkumar.xyz · Videos: youtube.com/@TheDevOpsSchool

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|---|---|
| **20** years in industry | **200+** corporate trainings |
| **10,000+** engineers mentored | **70+** organisations coached |

REVIEWS

## What learners say

Rated 4.6 on Google · more reviews at devopsschool.com/testimonials and in our video testimonials.

> “Rajesh is very good trainer. Rajesh was able to resolve our queries and question effectively. We really liked the hands-on examples covered during this training program.”
>
> Indrayani, India

> “The training was very useful and interactive. Rajesh helped develop the confidence of all.”
>
> Abhinav Gupta, Pune

START YOUR TEAM BUILD 2022 TRAINING

## Join the next batch

Weekday batches start on the 1st of every month and weekend batches on the first Saturday of every month, with max 10 learners each. 1:1 training can start immediately; corporate batches run on demand. We reply within 1 hour.

Pay by UPI, credit and debit cards, net banking or PayPal. Before you pay, read our refund policy. All levels of this course: www.devopsschool.com/courses/teamfoundationserver/

ENROL OR RESERVE A SEAT
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