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Process & Tooling

Simplifi'ED & IT Challenge – Etienne Deneuve

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12 Factors

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I. Codebase	• One codebase tracked in revision control, many deploys
II. Dependencies	• Explicitly declare and isolate dependencies
III. Config	• Store config in the environment
IV. Backing services	• Treat backing services as attached resources
V. Build, release, run	• Strictly separate build and run stages

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12 Factors

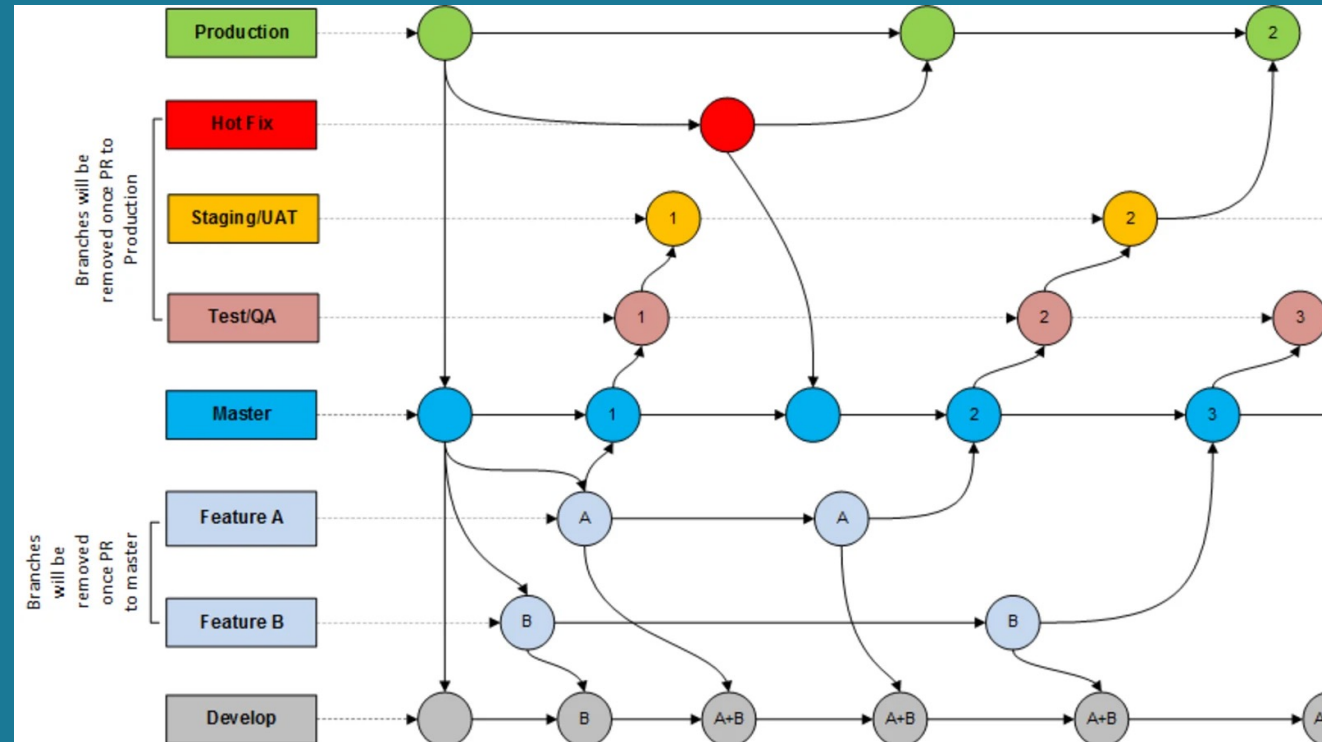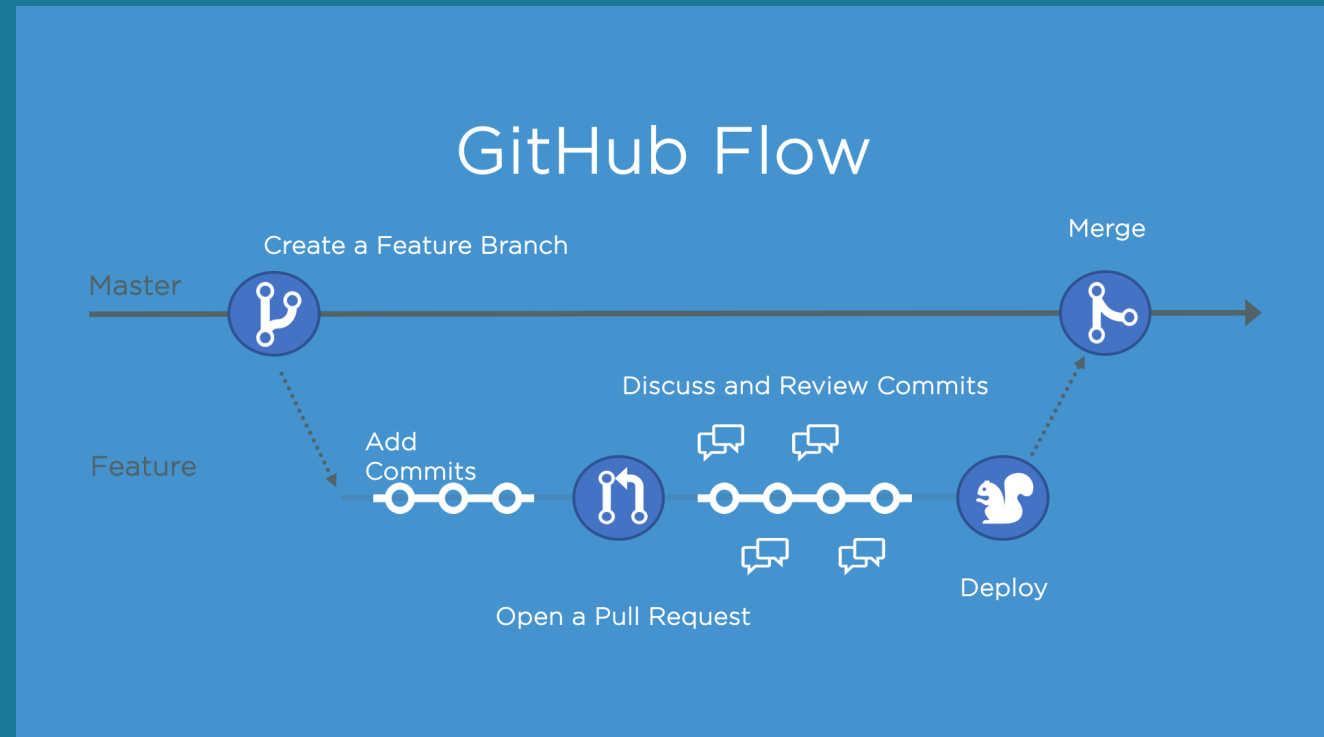|	
VI. Processes	• Execute the app as one or more stateless processes
VII. Port binding	• Export services via port binding
VIII. Concurrency	• Scale out via the process model
IX. Disposability	• Maximize robustness with fast startup and graceful shutdown
X. Dev/prod parity	• Keep development, staging, and production as similar as possible
XI. Logs	• Treat logs as event streams
XII. Admin processes	• Run admin/management tasks as one-off processes

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Git Flow Flows

Git Flow

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Github Flow

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Demo

Git Hooks

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CI/CD/CD &
GitOps