



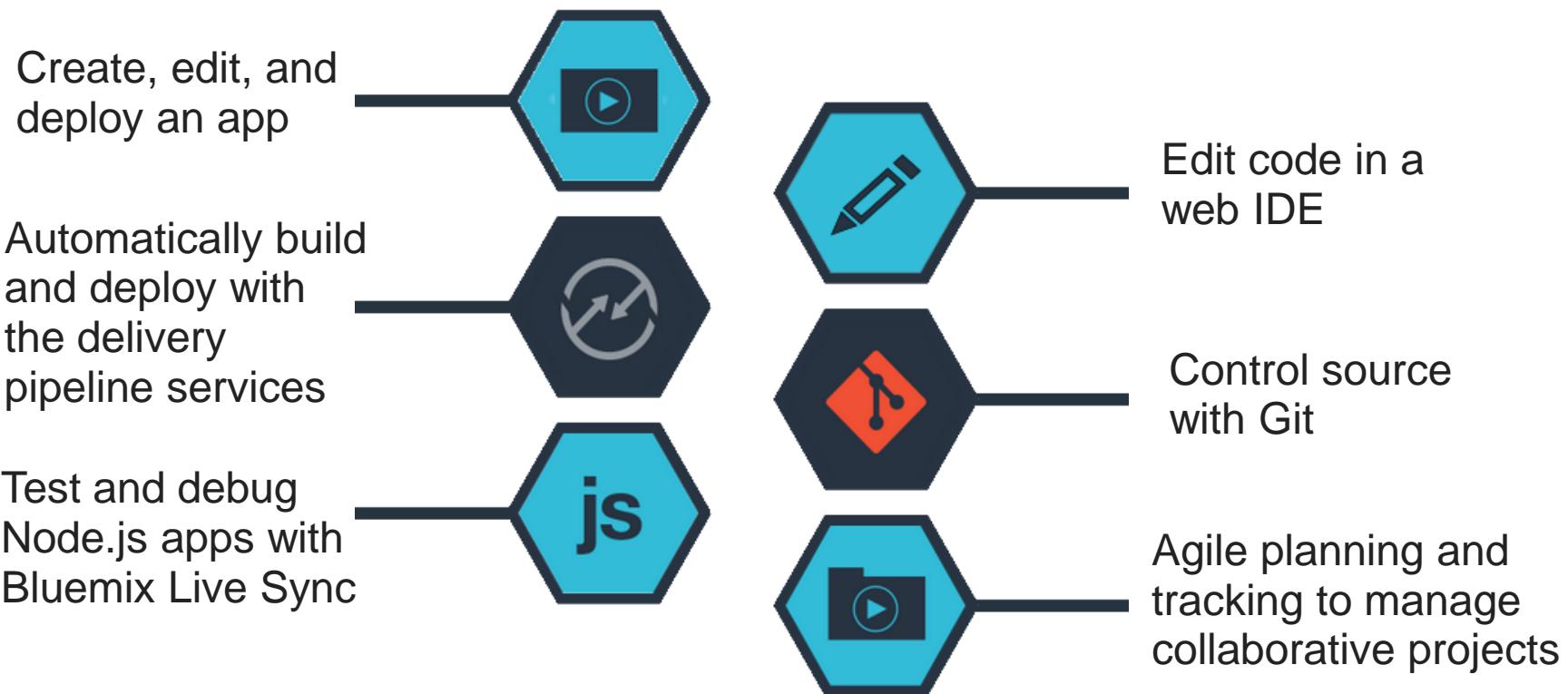
Capabilities of IBM Bluemix DevOps Services



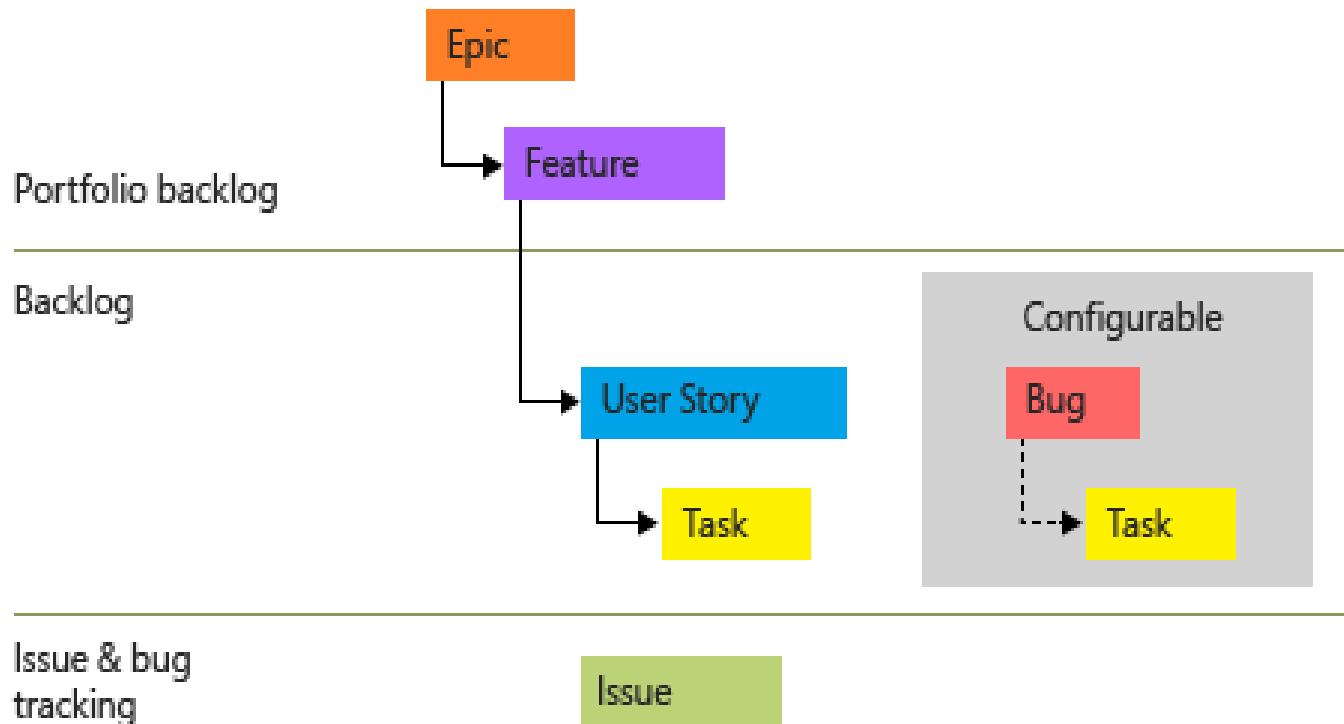
After you complete this unit, you should understand:

- The following capabilities of IBM Bluemix DevOps Services:
 - Agile planning
 - Web code editor
 - Source control management
 - Delivery pipeline

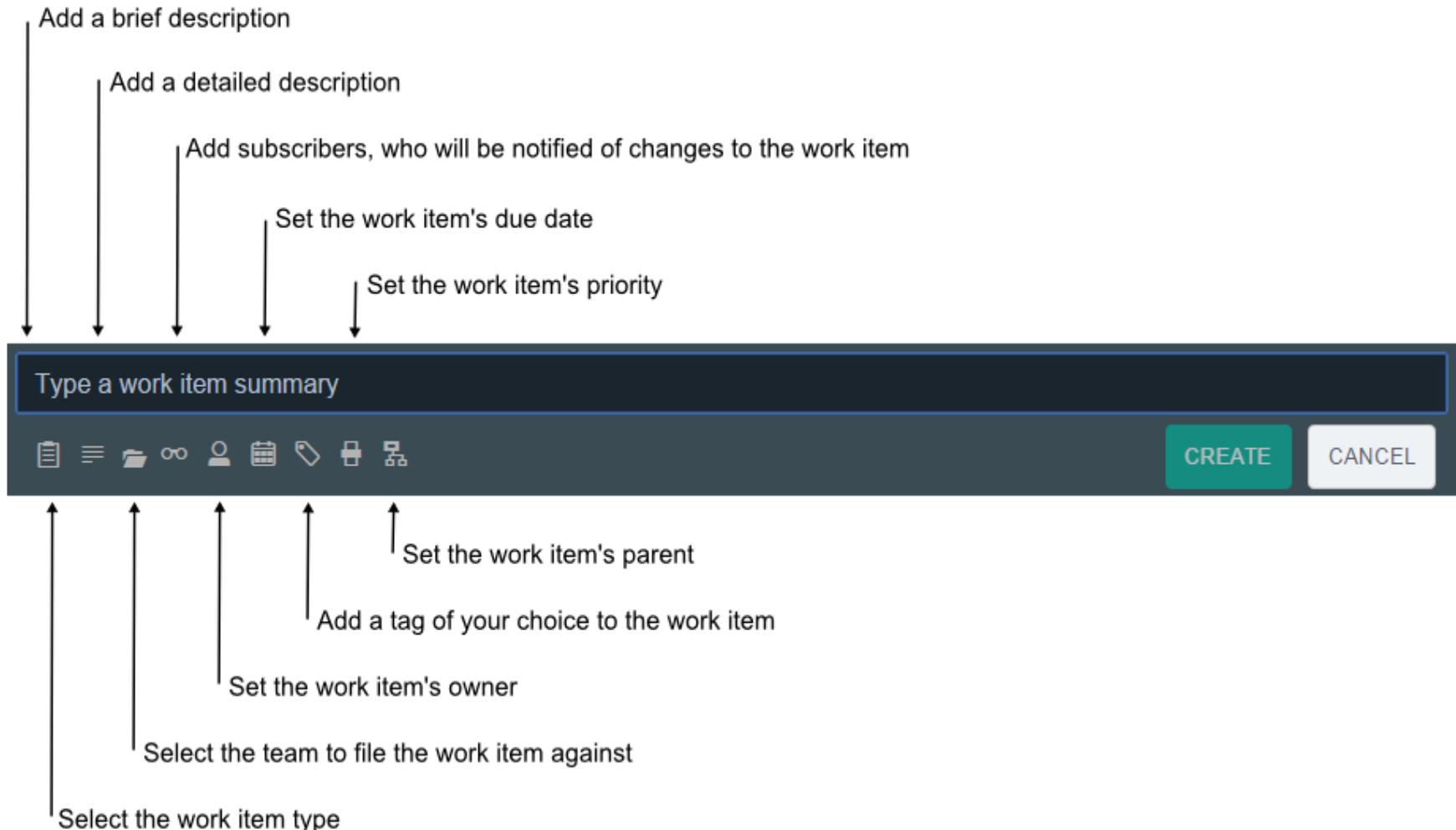
IBM Bluemix DevOps Services



Agile capabilities: track and plan



Agile capabilities: creating work items



Web code editor

The screenshot shows the IBM Bluemix DevOps Services web-based code editor. The top navigation bar includes links for DASHBOARD, MY PROJECTS, EXPLORE, HELP, BLOG, and FORUM. The main interface features a toolbar with File, Edit, View, Tools, and various icons for live editing, tracking, and deployment. On the left, a file tree displays project files: .git, launchConfigurations, public, .cignore, .gignore, app.js (selected), License.txt, manifest.yml, npm-shrinkwrap.json, package.json, project.json, and readme.md. The central area contains the code editor with the following content:

```
1 // This file is node:true!
2 var port = (process.env.VCAP_APP_PORT || 3000);
3 var express = require('express');
4 var sentiment = require('sentiment');
5 var twitter = require('ntwitter');
6
7 // make Stream globally visible so we can clean up better
8 var stream;
9
10 var DEFAULT_TOPIC = "Bluemix";
11
12 // defensiveness against errors parsing request bodies...
13 process.on('uncaughtException', function (err) {
14   console.error('Caught exception: ' + err.stack);
15 });
16 process.on("exit", function(code) {
17   console.log("exiting with code: " + code);
18 });
19
20 var app = express();
21 // Configure the app web container
22 app.configure(function() {
23   app.use(express.bodyParser());
24   app.use(express.static(__dirname + '/public'));
25 });
26
27 // Sample keys for demo and article - you must get your own keys if you clone this application!
28 // Create your own app at: https://dev.twitter.com/apps
```

Source control management

The screenshot shows the 'Working Directory Changes' panel of the IBM Jazz Source Control interface. At the top, it displays 'Active Branch (master)'. Below this, a green header bar indicates 'Working Directory Changes' and 'Nothing to commit.' A text input field for 'Enter the commit message' is present. The main area is divided into sections: 'Outgoing (0)' (No Changes) and 'Incoming (1)'. A tooltip over the incoming changes section says 'Merge the content from the branch to your active branch'. The 'Incoming (1)' section contains a red-bordered icon of a person with an upward arrow, indicating a merge operation.



jazz



Build and deploy: delivery pipeline

Pipeline: All Stages

The screenshot displays a delivery pipeline interface with two main stages: "Build Stage" and "Deploy Stage".

Build Stage:

- STAGE PASSED:** Indicated by a green bar.
- LAST INPUT:** Last commit by Max Bridges, 30 d ago. Includes a "change text" link.
- JOB:** Build Succeeded 23 min ago. Includes a "View logs and history" link.
- LAST EXECUTION RESULT:** Build 2. Includes a "View logs and history" link.

Deploy Stage:

- STAGE PASSED:** Indicated by a green bar.
- LAST INPUT:** Stage: Build Stage / Job: B... (Build 2).
- JOB:** Deploy to dev Succeeded 21 min ago. Includes a "View logs and history" link.
- LAST EXECUTION RESULT:** 527testapp, 527testapp.mybluemix.net. Includes a "View runtime log" link.
- Build 2:** Includes a "View logs and history" link.

Related links

- IBM Bluemix documentation: “IBM Bluemix DevOps Services overview”
 - <https://hub.jazz.net/docs/overview/>
- IBM Bluemix documentation: “Getting started: Create, edit, and deploy an app from Bluemix”
 - <https://hub.jazz.net/tutorials/devopsoverview/>