Bandit Python security linter

CONCEPTS

Every finding has a severity (impact) and a confidence (how sure Bandit is). Triage high/high first.

Python files parsed to AST
↓ plugins
Tests B1xx-B7xx selected by -t / -s
↓ filters
Issues severity + confidence
↓ -f
Report screen, json, html...

Bandit exits 1 when it reports issues, so it works as a CI gate; --exit-zero overrides that.

SCANNING

bandit -r *<dir>*
Scan a directory recursively

bandit *<file.py>* **...**
Scan specific files

bandit --version
Show Bandit and Python version

bandit -r *<dir>* **-x** *<paths>*
Exclude comma-separated paths

bandit -r *<dir>* **-v**
Verbose: list files scanned and excluded

bandit -r *<dir>* **-q**
Quiet: only print on errors

bandit -r *<dir>* **--exit-zero**
Always exit 0

FILTERING

bandit -r *<dir>* **-l / -ll / -lll**
Severity low / medium / high and up

bandit -r *<dir>* **-i / -ii / -iii**
Confidence low / medium / high and up

bandit -r *<dir>* **-t** *<ids>*
Run only these test IDs

bandit -r *<dir>* **-s** *<ids>*
Skip these test IDs

OUTPUT

bandit -r *<dir>* **-f json**
Machine-readable report

bandit -r *<dir>* **-f** *<format>*
csv, html, json, screen, txt, xml, yaml, custom

bandit -r *<dir>* **-o** *<file>*
Write the report to a file

CONFIGURATION

bandit -r *<dir>* **-c** *<file>*
Use a config file

pyproject.toml

```
[tool.bandit]
exclude_dirs = ["tests", ".venv"]
skips = ["B101"]
```

SUPPRESSING

 # nosec
Ignore all findings on this line

 # nosec B602
Ignore only the named test(s)

bandit -r *<dir>* **--ignore-nosec**
Report lines marked nosec anyway

bandit -r *<dir>* **-b** *<baseline.json>*
Show only issues not in the baseline

Put the nosec comment on the line the issue is reported at; for multi-line calls that is the first line.

COMMON FINDINGS

Tests you will meet most

ID	Flags
B101	assert (stripped under -O)
B105-B107	hardcoded password
B108	hardcoded /tmp path
B113	request without timeout
B301	pickle load
B311	random for security use
B324	weak hash (MD5, SHA1)
B506	yaml.load unsafe
B602	subprocess with shell=True
B608	SQL built from strings