

ActivePython



The World's Most Powerful Scripting Language from the Industry's Most Trusted Vendor

Recognized as one of the top 10 programming languages for the past 15 years, the Python open source programming language has garnered a huge developer following that have created more than 100,000 third-party packages. As a result, enterprise usage of Python has escalated, and right along with it so have the risks associated with adopting open source software, which typically include variably licensed and maintained third-party components.

Pre-Compiled, Pre-verified and Pre-Optimized

To ensure that enterprises can safely adopt open source software (OSS) like Python in their mission critical applications, ActiveState has been in the business of providing supported, community-derived OSS language distributions for more than 20 years.

Our ActivePython distribution features more than 300 popular third-party packages, all of which have been carefully curated for license compliance and stale-dated components that may arise from lack of community support. Only then are the packages incorporated into our OS-specific installers, AMI or Docker distributions through a process of rigorous testing, patching and optimization to ensure compatibility and performance.

- **Ensure Compliance** – packages are validated against GPL and GNU licensing
- **Decrease Risk** – commercial-grade support and maintenance for mission critical applications

As a result, ActivePython “just works” out of the box, dramatically decreasing the time to provision your teams with a standard Python distribution that features the same packages, versioning and licensing no matter the form factor, ensuring consistency while reducing friction and uncertainty for your Dev and DevOps teams.

ActivePython for Machine Learning

Data Scientists understand the value of Python when it comes to creating and verifying algorithms against large datasets in order to create trained models. However, these routines tend to be computationally expensive, bottle-necking development and delaying time to market.

ActivePython is the only distribution to provide a complete, one-click Python distribution for Machine Learning that includes all the basic data science packages (NumPy, SciPy, matplotlib, etc) along with popular Machine Learning packages (Theano, Keras, TensorFlow, etc) and Intel's Math Kernel Library (MKL), all of which have been optimized for compatibility and performance. The result is faster CPU-based math processing which can dramatically decrease the time to create trained models.

- **Get to Market Sooner** – optimized libraries speed up compute-intensive apps on Intel processors
- **Lower TCO** – standardized distribution decreases installation and deployment overhead

| Key Features and Functionality | |
|---|--|
| Pre-compiled | All of our >300 packages included have been pre-compiled and pre-integrated to ensure compatibility and optimization between all components |
| Pre-verified | All packages have been verified to ensure against outdated or vulnerable versions, as well as incompatibility or improper licensing |
| Commercial Support & Maintenance | Email and/or phone support with guaranteed response times, accompanied by regular maintenance releases, security patches and updates |
| Indemnification | Ensure against legal IP infringement and unwittingly violating third party license agreements |
| OEM Licensing | Permits royalty-free redistribution of ActivePython in your commercial application, along with second-line support |
| Math Function Acceleration | Includes Intel's Math Kernel Library for Increasing performance and reducing development time via optimized math routines |
| Komodo IDE | Complimentary license for ActiveState's cross-platform, polyglot IDE, which offers a wealth of features and functionality to make Python coding easier |
| Online and Offline Docs | Extensive documentation for the base language, as well as all included packages allow you to be productive while connected or disconnected |
| Availability | |
| Python Versions | ActivePython distributions are available for Python 2.7.x and 3.5.x |
| Operating Systems | Support for the latest releases of Mac OS, Windows and major Linux vendors, as well as IBM AIX, Oracle Solaris and HP-UX |
| Form Factors | Available as an OS-specific installer; an Amazon Machine Image (AMI) on the AWS Marketplace, or as a Docker Container on Docker Hub/Store |
| Custom Builds | Custom-built versions of ActivePython (based on Python 2.x or 3.x) featuring the packages/versions you need on the platform/environment you run |
| Key Included Packages (more than 300 in total) | |
| Data Science | NumPy, SciPy, Pandas, Jupyter, IPython, dask, airflow, luigi, and more |
| Big Data | HDF5, PyTables, pymongo, SQLAlchemy, pyMySQL, elasticsearch, and more |
| Data Visualization | Matplotlib, bokeh, seaborn, and more |
| Machine Learning | Keras, Theano, TensorFlow, scikit-learn, Lasagne |
| Web App Development | Django, Flask, Tornado, requests, AWS SDK, google-cloud, and more |
| Code Quality/ Testing | Pytest, selenium, nose, flake8, coverage, and more |
| Security | Cryptography, pyOpenSSL, ecdsa, passlib, bcrypt, request-oauthlib, PyCryptodome, service_identity, and more |
| Dev Tools | pytz, PyYAML, lxml, py, cffi, and more |

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