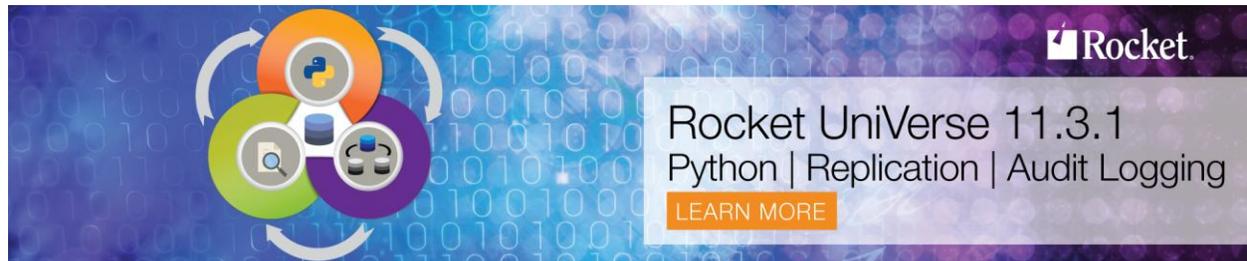


Rocket UniVerse Release 11.3.1: What's New

Secure, Reliable, and Modernized



UniVerse 11.3.1 builds on the traditional strength of the UniVerse platform, adding key capabilities requested by UniVerse customers and application partners. Specifically, UniVerse 11.3.1 delivers new security and compliance features. The release provides enhanced replication capabilities to better meet your High Availability and Disaster Recovery (HADR) requirements. And to help expand your pool of qualified development resources to develop, maintain, and modernize UniVerse applications, it adds native support for Python.

- ❖ Keeps your data secure and helps you document compliance with existing regulatory mandates
- ❖ Expands your options for high availability and disaster recovery
- ❖ Opens UniVerse coding to new development talent with Python support

Develop and Maintain UniVerse Applications with Python

For organizations developing applications on UniVerse, attracting and retaining talented developers is a key business priority. An important part of an employee recruitment and retention plan is to be sure you are using tools that developers know or want to learn. Python is one of the most widely used open source community programming languages, and it interfaces with UniVerse 11.3.1 as a native language.

Native Python support in UniVerse allows you to create new programs using a familiar, modern programming language, while also accessing current UniVerse programs created using BASIC. In addition, Python developers can utilize thousands of open-source, third-party Python packages from the Python community and use them to easily extend UniVerse applications and resources, helping to accelerate development and prototyping.

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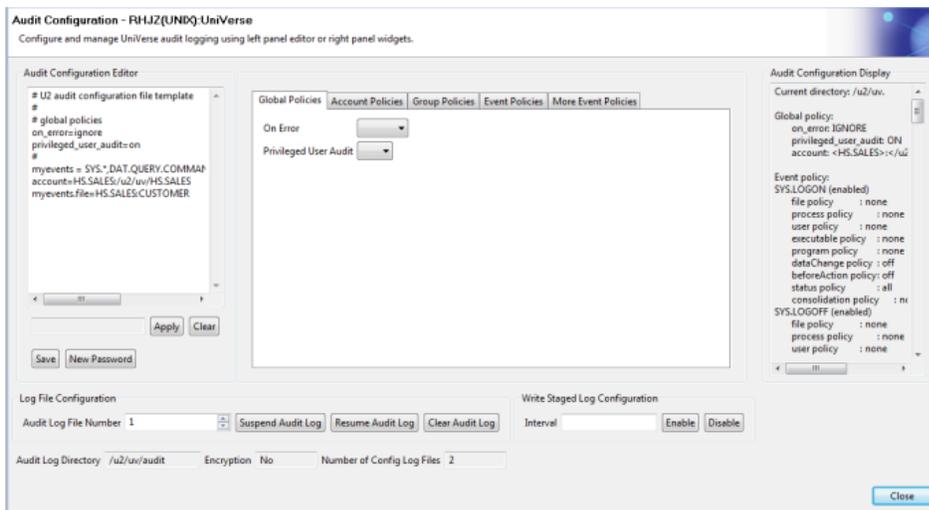
UniVerse Shell
02 LIST RIDES.F DESCRIPTION OPERATOR EQUIP.CODE SAMPLE 1
LIST RIDES.F DESCRIPTION OPERATOR EQUIP.CODE SAMPLE 1 11:45:33am 31 Aug 2016
PAGE 1
RIDES.F... DESCRIPTION..... OPERATOR EQUIP.CODE
10 Moonwalk 94 20
10 10
10 42
Sample of 1 records listed.
>CT RIDES.F 10
10
0001 Moonwalk
0002 94
0003 20^10^42
0004 1^73^85
>PYTHON
python> import u2py
python> file = u2py.File("RIDES.F")
python> rec = file.read("10")
python> rec
<u2py.DynArray value=b'Moonwalk\xfe94\xfe20\xfd10\xfd42\xfe1\xfd73\xfd85'>
python>

```

The integrated Python development environment allows developers to access and manipulate MultiValue data.

Secure Your Data and Reduce the Time Required to Document Compliance

UniVerse provides several important security and compliance capabilities aimed at helping your organization protect its data while documenting compliance with internal or regulatory compliance mandates. Audit Logging allows you to establish configurable audit histories of assets and events in your UniVerse system that you've deemed important to monitor. These audit trails help you meet HIPAA, HITECH, PCI-DSS and SOX compliance needs, among others. New in UniVerse 11.3.1, Audit Logging now supports sequential file logs as an output for improved performance. Audit Logging also supports several other output log types for various business needs, and does not require a UniVerse restart to save changes made to the audit configuration.



If you're responsible for supporting a department dealing with compliance and audits, you need to be able to easily manage Audit Logging. A graphical user interface using XAdmin, or a command line interface, helps you monitor and maintain your Audit environment.

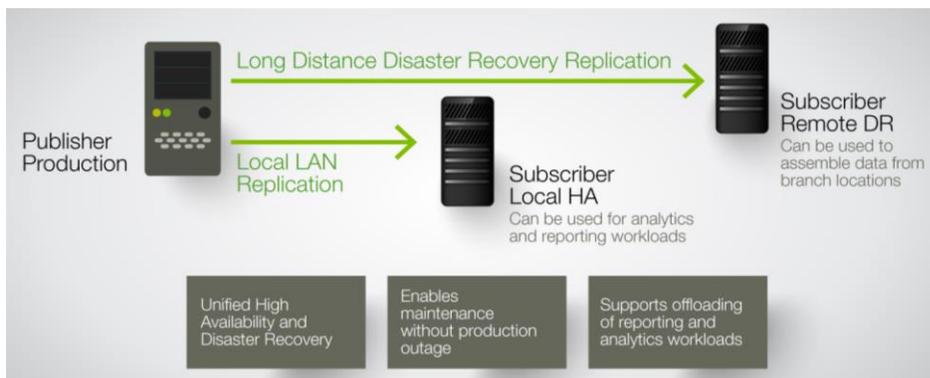
We have also included a number of encryption capabilities to help arm your business to meet new security and compliance regulations when certifying your applications. We've added FIPS 140-2 support with an embedded cryptographic module that allows the server to comply with Federal Information Processing Standards for all crypto-operations. To protect data in transit, all communications between UniVerse and the DBTools Resource View are now encrypted using the Transport Layer Security (TLS) protocol. And to make encryption easier to maintain as the number of threats continuously grows and evolves, we've incorporated modular OpenSSL libraries that can be downloaded as security patches from Rocket, and updated independently of upgrading UniVerse.

To simplify Single Sign-on, UniVerse now includes its own credential manager, rather than simply depending on the operating system or LDAP for credential management, allowing you to control who has access from within the UniVerse server.

Deliver High Availability and Disaster Recovery

Whether you're driven by revenue or customer service needs to deliver UniVerse application availability on a 7x24 basis, it's an operational imperative to keep your data in UniVerse protected and recoverable in the event of a disaster. UniVerse 11.3.1 includes enhanced HADR capabilities that keep applications up and running at all times while protecting your data.

Replication sits at the heart of these capabilities, and helps customers with several specific aspects of an HADR implementation. Replication is very efficient, particularly with large volumes of data while the speed of delivery from the publisher can be paced to match the ability of subscribers to absorb the updates, so the servers aren't overwhelmed. We've also included the ability to delay replication of data after an update, so if you've accidentally committed data to the database, you can prevent it from replicating. This feature is useful in keeping malicious updates out of the replicas. Additionally, tuning of Cross-Group Transactions (CGT) now enables significant performance gains when large volumes of transaction data are replicated across multiple replication groups.



Replication is useful for meeting both High Availability and Disaster Recovery needs. Use a local replica to assure availability and performance for business tasks like BI and more, and a distant replica at another location for data protection purposes.

Technical Specifications and System Requirements

Server Specifications	❖ AIX 7.1 64-bit	❖ Solaris x86, SPARC 11 64-bit
	❖ CentOS 6.0 64-bit	❖ SUSE Linux Enterprise Server 11 64-bit
	❖ HP Itanium 11.31 64-bit	
	❖ Red Hat Enterprise Linux6,7 64-bit	❖ Windows 7 (sp1), 8.1, 10, 2008 (R2 SP1), 2012 (R2)

DBTools & Clients	❖ DBTools 4.2.0	❖ U2 Common Clients 5.1.0
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Supported Frameworks & Protocols	❖ callHTTP support	❖ NLS/I18n support
	❖ External Database Access (EDA) through SQL Server, Oracle, DB2	❖ OAuth 2.0 support
	❖ HMAC – SHA1/SHA2 support in BASIC	❖ OpenSSL v3
	❖ IPv4/IPv6 dual-stack enabled	❖ TLS v1 / 1.1 / 1.2

Supported Rocket Products	❖ Aldon Lifecycle Manager 2.2	❖ U2 Toolkit for .NET 2.2.1
	❖ Rocket Discover 1.6.0	❖ U2 Web DE
	❖ SB/XA	❖ wIntegrate

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