PLANETLAB
An open platform for developing, deploying, and accessing planetary-scale services

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PlanetLab Design Notes

PlanetLab Design Notes (PDNs) are documents describing the design of the platform, or other topics highly relevant to PlanetLab implementation. Please send contributions to the editor, **Scott Karlin**.

Individual BiBTeX entries are available for each paper by following the links below. You may also view the **aggregate PDN BiBTeX database**.

PDN-02-001	PDF	BibTeX	**A Blueprint for Introducing Disruptive Technology into the Internet**, Larry Peterson, Tom Anderson, David Culler, and Timothy Roscoe, July 2002. *Appears in the Proceedings of ACM HotNets-I Workshop, Princeton, New Jersey, USA, October 2002.*
PDN-02-002	PDF	BibTeX	**PlanetLab Phase 0: Technical Specification**, The PlanetLab Phase 0 Architecture Team, edited by Timothy Roscoe, August 2002.
PDN-02-003	PDF	BibTeX	**PlanetLab Phase 1: Transition to an Isolation**

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Kernel, Larry Peterson and Timothy Roscoe, September 2002.

PDN-02-004 **PDF** **BibTeX** **One Ring to Rule Them All: Service Discovery and Binding in Structured Peer-to-Peer Overlay Networks**, Miguel Castro, Peter Druschel, Anne-Marie Kermarrec, and Antony Rowstron, September 2002. *Appears in the Proceedings of the Tenth ACM SIGOPS European Workshop, Saint-Emilion, France, September 2002*.

PDN-02-005 **PDF** **BibTeX** **Dynamic Slice Creation**, The PlanetLab Architecture Team, edited by Larry Peterson, October 2002.

PDN-02-006 **PDF** **BibTeX** **Isolation of Shared Network Resources in Xenoservers**, Andrew Warfield, Steve Hand, Timothy Harris, and Ian Pratt, November 2002.

PDN-02-007 **PDF** **BibTeX** **An End-to-End Approach to Globally Scalable Network Storage**, Micah Beck, Terry Moore, and James S. Plank, November 2002.

PDN-02-008 **PDF** **BibTeX** **InfoSpect: Using a Logic Language for System Health Monitoring in Distributed Systems**, Timothy Roscoe, Richard Mortier, Paul Jardetzky, and Steven Hand, December

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2002. *Appears in the Proceedings of the Tenth ACM SIGOPS European Workshop, Saint-Emilion, France, September 2002*.

PDN-03-009 **PDF** **BibTeX** **PlanetLab: An Overlay Testbed for Broad-Coverage Services**, Brent Chun, David Culler, Timothy Roscoe, Andy Bavier, Larry Peterson, Mike Wawrzoniak, and Mic Bowman, January 2003. *Appears in ACM Computer Communications Review, vol. 33, no. 3, July 2003, a special issue on tools and technologies for networking research and education.*.

PDN-03-010 **PDF** **BibTeX** **A Simple Common Sensor Interface for PlanetLab**, Timothy Roscoe, Larry Peterson, Scott Karlin, and Mike Wawrzoniak, March 2003 (updated May 2003).

PDN-03-011 **PDF** **BibTeX** **BGP Feed Configuration Memo**, Akihiro Nakao and Larry Peterson, April 2003.

PDN-03-012 **PDF** **BibTeX** **A Routing Underlay for Overlay Networks**, Akihiro Nakao, Larry Peterson, and Andy Bavier, April 2003.

PDN-03-013 **PDF** **BibTeX** **Slice Creation and Management**, Brent Chun and Tammo Spalink, July 2003.

PDN-03-014 **PDF** **BibTeX** **Sophia: An Information**

Plane for Networked Systems, Mike Wawrzoniak, Larry Peterson, and Timothy Roscoe, July 2003.

PDN-03-015 **PDF** **BibTeX** **Distributed System Management: PlanetLab Incidents and Management Tools**, Robert Adams, November 2003.

PDN-03-016 **PDF** **BibTeX** **Port Use and Contention in PlanetLab**, Jeff Sedayao and David Mazières, November 2003.

PDN-04-017 **PDF** **BibTeX** **Evolving the Slice Abstraction**, Larry Peterson, John Hartman, Steve Muir, Timothy Roscoe, and Mic Bowman, January 2004.

PDN-04-018 **PDF** **BibTeX** **Globus and PlanetLab Resource Management Solutions Compared**, Matei Ripeanu, Mic Bowman, Jeffrey S. Chase, Ian Foster, and Milan Milenkovic, February 2004. *Appears in the Proceedings of the Thirteenth IEEE International Symposium on High-Performance Distributed Computing (HPDC-13), Honolulu, Hawaii, June 2004.*.

PDN-04-019 **PDF** **BibTeX** **The Interdomain Connectivity of PlanetLab Nodes**, Suman Banerjee, Timothy G. Griffin, and Marcelo Pias, February 2004. *Appears in the Proceedings*

of the Passive and Active Measurement Workshop (PAM2004), Antibes Juan-les-Pins, France, April 2004.

PDN-04-020 **PDF** **BibTeX** **IPv4 Address Use in PlanetLab**, Jeff Sedayao, April 2004.

PDN-04-021 **PDF** **BibTeX** **The Design Principles of PlanetLab**, Larry Peterson and Timothy Roscoe, June 2004 (updated January 2006). *Appears in Operating Systems Review, 40(1):11-16, January 2006*.

PDN-04-022 **PDF** **BibTeX** **Proper: Privileged Operations in a Virtualised System Environment**, Steve Muir, Marc Fiuczynski, Larry Peterson, Justin Cappos, and John Hartman, August 2004 (updated June 2005). *Appears in the Proceedings of the USENIX 2005 Annual Technical Conference, Anaheim, California, April 2005*.

PDN-04-023 **PDF** **BibTeX** **PlanetLab: Version 3.0**, PlanetLab Implementation Team, August 2004 (updated January 2005).

PDN-04-024 **PDF** **BibTeX** **An End-to-End Approach to Globally Scalable Programmable Networking**, Terry Moore, Micah Beck, and James S. Plank, September 2004. *Appears in the Proceedings of the Workshop on Future*

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