

Register by
July 28 and save \$50

Large Scale System Administration of Windows NT Workshop

*Sponsored by USENIX, the UNIX and Advanced
Computing Systems Association*

*Co-Sponsored by SAGE,
the System Administrators Guild*

*August 14–16, 1997
Sheraton Seattle Hotel
& Towers
Seattle, Washington*

FREE TO ALL ATTENDEES:

*Windows NT in a Nutshell—
A Desktop Quick Reference
for System Administration*
by Eric Pearce, with
Beverly Scherf and
Chris Reilly

Keynote

- From UNIX to Windows NT — A Long Day's Journey Into Night
David Korn, AT&T Laboratories

Refereed Papers

- Administration
- Enterprise Management
- Integration
- Security
- Management Integration and Politics
- Tools

Panels

- Ask the Guru!
- Management Integration/Politics

Special Sessions

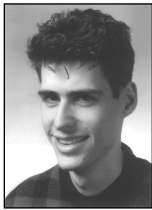
- Zero Administration Windows
- Works-In-Progress
- Security
- Systems Management Server (SMS)
- Birds-of-a-Feather Sessions (BoFs)



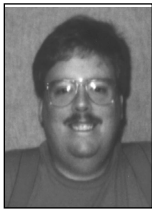
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Large Scale System Administration of Windows NT Workshop



Xev Gittler



Phil Scarr

Dear Colleague:

System administrators are faced with the deployment of Windows NT across complex networks comprised of hundreds or even thousands of individual Windows NT systems. They are expected to maintain these systems with the same quality of service they deliver for their better-understood UNIX systems. They are expected to provide integration services between legacy platforms and Windows NT as well, but very little information exists which would aid in the management of these large-scale Windows NT installations. In this workshop, sponsored by USENIX and SAGE, you will learn about real-life experiences of system administrators who have wrestled with these problems and are building solutions today which will scale into tomorrow.

During the workshop, there will be lots of opportunities for interaction during panels, a Work-In-Progress session, and luncheons. You will participate in discussions on topics such as large scale administration, integration, tools, and security. There will also be breakout sessions where you can share information with your peers. To help

us focus the breakouts, we encourage you to submit a brief description of the work you are doing with Windows NT. See the Registration Information on page 6 for details.

This workshop will be an exciting experience for anyone involved in the management of large Windows NT networks. It is an opportunity for the discussion of real-life experiences and the solutions to real-world problems. We look forward to your participation.

Very truly yours,

Xev Gittler, *Lehman Brothers*

Phil Scarr, *Synopsis, Inc.*

Workshop Co-Chairs

PS: Remember to register by July 28—you'll save \$50. See page 6 for information about the attendee site survey.

Program at a Glance

Wednesday, August 13, 1997

On-Site Registration	6:00 pm – 9:00 pm
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Thursday, August 14

On-Site Registration	7:30 am – 5:00 pm
Technical Program & Keynote	9:30 am – 5:30 pm
Reception	6:00 pm – 7:00 pm
Birds-of-a-Feather Sessions	8:00 pm – 11:00 pm

Friday, August 15

On-Site Registration	7:30 am – 5:00 pm
Technical Program	9:30 am – 5:30 pm
Workshop Luncheon	12:30 pm – 2:00 pm
Birds-of-a-Feather Sessions	7:00 pm – 11:00 pm

Saturday, August 16

Technical Program	9:30 am – 5:30 pm
Workshop Luncheon	12:30 pm – 2:00 pm

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Conference Organizers

Program Co-Chairs

Xev Gittler, *Lehman Brothers*

Phil Scarr, *Synopsis, Inc.*

Program Committee

Paul Evans, *Synopsis, Inc.*

Remy Evard, *Argonne National Laboratory*

Idajean Fisher, *Pencom*

Bernie O'Connor, *SAS Institute*

David Parter, *University of Wisconsin*

Ian Reddy, *Simon Fraser University*

John Schimmel, *Silicon Graphics*

Michal Simek, *Hewlett-Packard*

Mark Verber, *Xerox PARC*

THURSDAY, August 14
9:30am – 10:30am

Opening Remarks

Xev Gittler, *Lehman Brothers*
Phil Scarr, *Synopsys, Inc.*

Keynote Address

From UNIX to Windows NT—A Long Day's Journey Into Night

David Korn, *AT&T Laboratories*

This talk will describe some of the difficulties encountered by UNIX administrators as they move either from UNIX to Windows NT or between the two. David will talk about some of his own experiences in working with Windows NT coming from a UNIX background, and give his views on where things are heading.

David Korn is currently chief software architect in the research division of AT&T Labs where his primary assignment is to explore directions in software development techniques that improve programming productivity. His best-known work is the Korn shell, ksh, which is a POSIX-compatible UNIX shell and a high-level programming language. He is a Bell Labs and an AT&T Fellow.



10:30am – 11:00am

Break

11:00am – 12:30pm

Administration I—Enterprise Management

Managing NT Desktops in a Large Environment

Aldon Hynes, *Union Bank of Switzerland*

Large Scale NT Operations Management

Steven Hearn, *Westpac Banking Corporation*

Domain Engineering for Mission Critical Environments

Chris Rouland, *Lehman Brothers*

12:30pm – 2:00pm

Lunch (on your own)

2:00pm – 3:30pm

Invited Talk: MS/Zero Administration Windows

Dan Plastina, *Microsoft, Inc.*

Microsoft's Zero Administration Windows (ZAW) initiative seeks to answer some of the pressing concerns companies have with managing large numbers of Windows PCs, including reducing the cost of ownership per PC. Dan will discuss this initiative and how it fits in with other systems management initiatives such as SMS.

3:30pm – 4:00pm

Break

4:00pm – 5:30pm

Administration II—Integration

Integrating Win95/NT into an Existing UNIX Network

Cam Luerkens, *Rockwell Collins, Inc.*

Panel: Management Integration/Politics

Moderator: Boris S. Netis, *NetSource, Inc.*

Panelists TBA

The introduction of Windows NT into enterprise networks creates both management and political challenges in shops dedicated to other computing systems. Windows NT is a new, feature-rich operating system, but faces stiff opposition from many quarters. This panel will review many of these challenges as well as techniques for smoothing out the turbulence created by the appearance of Windows NT. Audience participation in the discussion will help elucidate both problems and solutions to this challenge.

6:00pm – 7:00pm

Evening Reception

8:00pm – 11:00pm

Birds-of-a-Feather Sessions

FRIDAY, August 15
9:30am – 10:30am

Tools

Porting UNIX to Windows NT
David Korn, *AT&T Laboratories*

Utilizing Low-Level NTFS Disk Structures for Rapid Disk Searching
Michael Fredrick, *PSA*

Adding Response Time Measurements of CIFS File Server Performance to NetBench
Karl Swartz, *Network Appliance*

11:00am – 12:30am

Work-In-Progress Session (WIP)

12:30pm – 2:00pm

Workshop Luncheon

2:00pm – 3:30pm

Invited Talk: MS/Security in Windows NT 5.0

Peter Brundrett, *Microsoft*

This talk provides an overview of Windows NT 5.0's distributed security features based on the Windows NT Directory Service, Kerberos V5 protocol, and SSL/TLS public key security. The speaker will describe components that make up an effective security policy for Windows NT and how the Windows NT 5.0 Directory supports central administration of security policy.

3:30pm – 4:00pm

Break

4:00pm – 5:30pm

Panel: Windows NT Security

Moderator: Mike Masterson, *Taos Mountain*

Panelists TBA

Internet-based transaction processing will permit organizations to easily work with both customers and business partners without incurring the costs of building private networks. Security enhancements will also make wide-area electronic data interchange (EDI)—until now an expensive luxury for all but the largest corporations—affordable for businesses and organizations of all sizes and types.

The business benefits from these new types of inter-organizational applications are clear, but technical issues will delay the accrual of these benefits unless they are resolved. In this panel, we will define the problem and explore some possible solutions.

7:00pm – 11:00pm

Birds-of-a-Feather Sessions

USENIX®

USENIX is the UNIX and Advanced Computing Systems Association. Since 1975 the USENIX Association has brought together the community of engineers, system administrators, researchers, and technicians working on the cutting edge of the computing world.

The USENIX conferences have become the essential meeting grounds for the presentation and discussion of the most advanced information on new developments in all aspects of advanced computing systems.

The USENIX Association and its members are dedicated to:

- Problem-solving with a practical bias

- Fostering innovation and research that works
- Communicating rapidly the results of both research and innovation
- Providing a neutral forum for the exercise of critical thought and the airing of technical issues

SAGE

THE SYSTEM ADMINISTRATORS GUILD

SAGE, a Special Technical Group within the USENIX Association, is dedicated to the recognition and advancement of system administration as a profession. To join SAGE, you must be a member of USENIX.

SAGE activities currently include:

- Publishing of the "Short Topics in System Administration" series. Topics include Job Descriptions, Writing Policies for Computer Sites, Systems

Security: A Management Perspective, legal issues, hiring/interviewing strategies, and education

- Co-sponsoring with USENIX the annual System Administration (LISA) Conferences and the first Large Scale System Administration of Windows NT Workshop
- An annual survey of system administrator salaries and responsibilities
- SAGE News, a regular section in *:login:*, USENIX's bi-monthly newsletter
- Encouraging the formation of local SAGE groups

For more membership information, visit our Web site: <http://www.usenix.org>, send email to office@usenix.org, or call 510.528.8649.

SATURDAY, August 16
9:30am – 10:30am

Administration III: Miscellaneous

Implementing Large NT Networks in a Heterogeneous Computing Environment at SLAC
Andrea Chan, Freddie Chow, and Jonathan Wong, *Stanford Linear Accelerator Center*

Effective Usage of Individual User NT Profiles with Software Distribution
Mark Murray and Troy Roberts, *Interprovincial Pipe Line, Inc.*

Choosing a Backup Environment for Windows NT
Jody Schivley, *Lehman Brothers*

10:30am – 11:00am

Break

11:00am – 12:30pm

Presentations and Panel: Tricks, Tips, and Gurus

Michael A. Carpenter and the AnswerDesk Staff, *Pencom*; Eric Pearce, *O'Reilly & Associates*

12:30pm – 2:00pm

Workshop Luncheon

2:00pm – 3:30pm

Invited Talk: MS/Systems Management Server (SMS)

David Hamilton, *Microsoft*

Microsoft's Systems Management Server is a comprehensive set of tools designed to aid system administrators in managing large scale deployments of Windows NT. SMS features an integrated centralized management scheme with support for heterogenous client environments.

4:00pm – 5:00pm

Administration IV: Large Scale Miscellaneous

Systems Administration of Scientific Computing on Windows NT
Remy Evard and Michael Gomberg, *Argonne National Laboratory*

Coordinated Management of Windows NT and UNIX Nameservices
Viktor Dukhovni, *Enterprise Systems Management*

5:00pm – 5:30pm

Closing Session

USENIX and SAGE Thank Their Supporting Members

USENIX Supporting Members

Adobe Systems, Inc.
Advanced Resources
ANDATACO
Andrew Consortium
Apunix Computer Services
Boeing Commercial
Crosswind Technologies, Inc.
Earthlink Network, Inc.
ISG Technologies, Inc.
Matsushita Electric Industrial Co., Ltd.
Motorola Research & Development
MTI Technology Corporation
Sybase, Inc.
Tandem Computers, Inc.
UUNET Technologies, Inc.

SAGE Supporting Members

Atlantic Systems Group
Bluestone, Inc.
Enterprise Systems Management Corp.
Great Circle Associates
Online Staffing
Paranet, Inc.
Pencom Systems Administration/PSA
Southwestern Bell
Taos Mountain
Texas Instruments
TransQuest Technologies, Inc.

Registration Information

Position Papers

To help focus the breakout sessions, attendees are asked to submit a brief description (1 or 2 paragraphs) of the work they are doing with Windows NT at their site. Please describe anything you feel is special about the problems you are having or the solutions you are providing. Email your description to nt-sysadmin-papers@usenix.org.

Please begin your paragraph with your name, affiliation, and complete contact information including email and postal addresses, phone and fax.

Registration Fees (August 14–16)

Early registration fee (until July 28)

Member*	\$380
Non-member**	\$450

Members and Non-members:

Add \$50 late fee after July 28, 1997

Full-time student	\$ 75
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(copy of student ID required)

*The member fee applies to current individual members of USENIX, EurOpen national groups, JUS and AUUG.

**Join USENIX or renew your membership. Pay the non-member registration fee and just check the USENIX membership box on the registration form to renew your existing membership or receive a one-year individual association membership. You may join or renew your SAGE membership for \$25. See the registration form.

REFUND / CANCELLATION POLICY If you must cancel, all refund requests must be in writing, with your signature, and postmarked no later than August 4, 1997. Telephone and email cancellations cannot be accepted. You may fax your cancellation or substitute another in your place. Contact the Conference Office for details: 714.588.8649.

Registration fees include:

- Admission to all Technical Sessions
- Copy of Workshop Digest
- Admission to the workshop luncheons and reception

Payment by check or credit card must accompany the registration form. Purchase orders, vouchers, telephone, and email registrations cannot be accepted.

Have a Question?

For more information, contact us:

USENIX Conference Office
22672 Lambert Street, Suite 613
Lake Forest, CA 92630
Phone: 714.588.8649
Fax: 714.588.9706
Email: conference@usenix.org
URL: <http://www.usenix.org>

Workshop Information

Discounts and Student Stipends

The USENIX student stipend program covers travel, living expenses, and registration fees to enable full-time students to attend USENIX conferences and workshops. To apply for a stipend, visit the USENIX Web site: <http://www.usenix.org>; read *comp.org.usenix*, or send email to students@usenix.org.

USENIX offers a discount rate of \$75 for full-time students. You must include a copy of your current student ID card with your registration. This fee is not transferrable.

Workshop Digest

One copy of the Digest is included with your registration fee.

Hotel and Travel Information

Hotel Discount Reservation Deadline: → Wednesday, July 23, 1997 ←

USENIX has negotiated special rates for workshop attendees at the Sheraton Seattle. Contact the hotel directly to make your reservation. Please mention USENIX to get the special rate. A one-night room deposit must be guaranteed on a major credit card. To cancel your reservation, you must notify the hotel at least 24 hours before your planned arrival date.

Sheraton Seattle Hotel & Towers

1400 Sixth Avenue; Seattle, WA 98101

Toll Free: 800.325.3535

Local Telephone: 206.621.9000

Reservation Fax: 206.621.8441

Single Occupancy \$142.00

Double Occupancy \$162.00

(plus state and local taxes, currently at 15.2%)

Note: Requests for hotel reservations made after the deadline will be filled on a space and rate available basis only.

Discount Airfares

Special airline discounts will be available for USENIX attendees. Please call for details:

JNR, Inc. Toll Free in US and Canada:

800.343.4546

Telephone: 714.476.2788

Airport to Hotel Transportation

The Sheraton Seattle is located about 30 minutes from the Seattle-Tacoma (Sea-Tac) International Airport.

Attendee Site Survey

Please take a minute to fill out a Web survey about your site. It will assist us in better understanding you and your needs. The survey is not required for participation, but the more information we have, the better the workshop will be. The URL is: <http://www.cs.wisc.edu/nt-lisa-workshop/survey>

Birds-of-a-Feather Sessions (BoFs)

Thursday and Friday, August 14–15

Do you have a topic that you'd like to discuss with others? Our Birds-of-a-Feather Sessions may be perfect for you. BoFs are very interactive and informal gatherings for attendees interested in a particular topic. Schedule your BoF in advance by telephoning the USENIX Conference Office at 714.588.8649, or email to: conference@usenix.org.

Gray Line Service provides daily shuttle service every 20 minutes from 6 am until 11:30 pm to the Sheraton Seattle and other downtown hotels. Tickets cost \$7.50 one way, \$13.00 round trip, and can be purchased at the Gray Line Service Desk near the baggage claim area. Reservations are not required. Taxi service is \$30–\$35 one way and takes approximately 25 minutes.

Points of Interest

- **Pike Place Market:** Colorful farmer's market is the oldest continually-operating market in the nation; splendid array of seafood and produce stalls, restaurants, crafts, international foods.
- **Waterfront:** 1½ miles of restaurants, shops, boats, maritime sightseeing.
- **Seattle Aquarium:** Fascinating views from the bottom of Elliot Bay.
- **Pioneer Square:** Shopping, art galleries, international dining, and sightseeing in Seattle's historic district.
- **Woodland Park Zoo:** Stroll through open-style exhibits of one of the top ten zoos in the country.
- **Pacific Science Center:** Hands-on mathematics and science exhibits; space films.
- **Seattle Center:** 74-acre urban park, home of Seattle's performing arts, Pacific Science Center, Space Needle, Children's Museum, and festivals.
- **Space Needle:** 360-degree observation deck and lounge including two revolving restaurants.

Copy this form as needed. Type or print clearly.

Registration Form Large Scale System Administration of Windows NT, August 14-16, 1997

The address you provide will be used for all future USENIX mailings unless you notify us in writing.

Name First Last

First Name for Badge Member Number

Company / Institution

Mail Stop Mail Address

City State Zip Country

() ()

Telephone No. Fax

Email Address (1 only please) W W W

Attendee Profile

Please help us serve you better. By answering the following questions, you help us plan our activities to meet members' needs. All information is confidential.

- I do not want to be on the attendee list.
- I do not want my address made available for other than USENIX mailings.
- I do not want USENIX to email me notices of Association activities.

What is your affiliation (check one):

- academic commercial gov't R&D

What is your role in the purchase decision (check one):

- 1. final 2. specify 3. recommend 4. influence 5. no role

What is your primary job function (check one):

- 1. system/network administrator 2. consultant 3. academic/researcher
- 4. developer/programmer/architect 5. system engineer
- 6. technical manager 7. student 8. security 9. webmaster

How did you first hear about this meeting (check one):

- 1. USENIX brochure 2. newsgroup/bulletin board 3. :login:
- 4. Web 5. from a colleague 6. magazine

What publications or newsgroups do you read related to Windows NT?

Payment must accompany this form

Payment (U.S. dollars only) must accompany this form. Purchase orders, vouchers, email, and telephone registrations cannot be accepted.

Payment enclosed. Make check payable to USENIX Conference.

Charge to my: VISA MasterCard American Express Discover

Account No. Exp. Date

Print Cardholder's Name

Cardholder's Signature

REFUND / CANCELLATION POLICY

If you must cancel, all refund requests must be in writing, with your signature, and postmarked no later than August 4, 1997. Telephone and email cancellations cannot be accepted. You may fax your cancellation or substitute another in your place. Contact the Conference Office for details: 714.588.8649.

Registration Fees (Thursday-Saturday, Aug 14-16)

Current member fee..... \$380.00 \$ _____

(Applies to individual members of USENIX, EurOpen national groups, JUS, and AUUG)

Non-member fee* \$450.00 \$ _____

*Join or renew your USENIX membership, AND attend the conference for the same low price. Check here:

Join or renew your SAGE membership..... Add \$25.00 \$ _____

(You must be a member of USENIX)

Late fee applies if postmarked after

Monday, July 28, 1997..... Add \$50.00 \$ _____

Full-time student** fee, pre-registered

or on-site \$75.00 \$ _____

Full-time student** fee including USENIX

membership fee..... \$100.00 \$ _____

**Students: Attach a photocopy of current student ID

TOTAL DUE \$ _____

You may fax your registration form to 714.588.9706 if paying by credit card. To avoid duplicate billing, please do not mail an additional copy.

- I have emailed my position paper to *nt-sysadmin-papers@usenix.org* as per the request in the Registration Information.
- I have filled out the Web Survey (optional).

Please complete this registration form and return it along with full payment to:

USENIX Conference Office
 22672 Lambert St., Suite 613
 Lake Forest, CA USA 92630
 Phone: 714.588.8649
 Fax: 714.588.9706



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August 14–16, 1997

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*Hotel Discount
Deadline: July 23*

*Register by July 28
and Save \$50*

4 Easy Ways for More Information:

1. Phone: 714.588.8649
2. Fax: 714.588.9706
3. Email: conference@usenix.org
4. URL: <http://www.usenix.org>

USENIX Conference Office
22672 Lambert Street, Suite 613
Lake Forest, CA 92630
Office Hours: 8:30 am–5:00 pm, Pacific Time

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Please pass this along to a colleague.