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

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)

August 14-16, 1997
Sheraton Seattle Hotel & Towers
Seattle, Washington

Register by July 28 and save $50
Large Scale System Administration of Windows NT Workshop

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, Synopsys, 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.
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
**Technical Program**  
**Friday, August 15, 1997**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>9:30am - 10:30am</td>
<td><strong>Tools</strong></td>
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<tr>
<td></td>
<td>Porting UNIX to Windows NT</td>
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<td></td>
<td>David Korn, AT&amp;T Laboratories</td>
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<td></td>
<td>Utilizing Low-Level NTFS Disk Structures for Rapid Disk Searching</td>
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<td>Michael Fredrick, PSA</td>
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<td>Adding Response Time Measurements of CIFS File Server Performance to NetBench</td>
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<td>Karl Swartz, Network Appliance</td>
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<tr>
<td>11:00am - 12:30am</td>
<td><strong>Work-In-Progress Session (WIP)</strong></td>
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<td>12:30pm - 2:00pm</td>
<td><strong>Workshop Luncheon</strong></td>
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<td>2:00pm - 3:30pm</td>
<td><strong>Invited Talk: MS/Security in Windows NT 5.0</strong></td>
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<td>Peter Brundrett, Microsoft</td>
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<td>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.</td>
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<tr>
<td>3:30pm - 4:00pm</td>
<td><strong>Break</strong></td>
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<tr>
<td>4:00pm - 5:30pm</td>
<td><strong>Panel: Windows NT Security</strong></td>
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<td>Moderator: Mike Masterson, Taos Mountain</td>
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<td>Panelists TBA</td>
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<td>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.</td>
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<td>7:00pm - 11:00pm</td>
<td><strong>Birds-of-a-Feather Sessions</strong></td>
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**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**

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:
- 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.
Technical Program  Saturday, August 16, 1997

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.
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-ssadmin-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

Member and Non-member:
- Add $50 late fee after July 28, 1997
- Full-time student $75 (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.

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

Have a Question?
For more information, contact:
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

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
(pell 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-ss/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.

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: 1/2 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.

PARKING INSTRUCTIONS

to be continued...
### 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.

<table>
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<tr>
<th>Name</th>
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<td>First Name for Badge</td>
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### 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:**

1. [ ] VISA
2. [ ] MasterCard
3. [ ] American Express
4. [ ] Discover

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### 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)

<table>
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<tr>
<th>Fee Description</th>
<th>Fee</th>
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<tr>
<td>Current member fee</td>
<td>$380.00</td>
</tr>
<tr>
<td>Non-member fee*</td>
<td>$450.00</td>
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*Join or renew your USENIX membership, AND attend the conference for the same low price. Check here: [ ]

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<th>Fee Description</th>
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<tr>
<td>Join or renew your SAGE membership</td>
<td>Add $25.00</td>
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<th>Fee Description</th>
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<td>Late fee applies if postmarked after Monday, July 28, 1997</td>
<td>Add $50.00</td>
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<th>Fee Description</th>
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<tr>
<td>Full-time student** fee, pre-registered</td>
<td>$75.00</td>
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<tr>
<td>Full-time student** fee including USENIX membership fee</td>
<td>$100.00</td>
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**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).
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4 Easy Ways for More Information:

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4. URL: http://www.usenix.org

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Lake Forest, CA 92630
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