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LINUX PRIVILEGE ESCALATION BOOTCAMP

These video recordings are from our live online bootcamp

Session I

The following topics are covered in Session I

- Linux Concepts
 - Linux Users and Groups
 - Linux File Permissions
 - Interactive programs
 - Text Editor
 - Terminal based Browsers
 - Popular Linux Utilities
- Misconfigured SUID
- Misconfigured SUDO
- Misconfigured File Permissions

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List of labs covered during the session (and homework):

- Permissions Matter! (<https://attackdefense.com/challengedetails?cid=75>)
- Exploiting Setuid Programs (<https://attackdefense.com/challengedetails?cid=73>)
- Editing Gone Wrong (<https://attackdefense.com/challengedetails?cid=80>)

Session II

The following topics are covered in Session II

- Cron Job
 - Crontab File formats

- Understanding the Load Order
 - Creating a shared library
- Leveraging Cron Jobs
 - Unix Wildcards gone wild
 - World writable scripts
 - World readable cron error messages
 - Symlinks and PATH-based misconfigurations.
- Vulnerable Application and Services
- Web to Root
- App to Root
- Shared Library Injection

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List of labs covered during the session (and homework):

- Cron Jobs Gone Wild! (<https://attackdefense.com/challengedetails?cid=74>)
- The Golden Logs (<https://attackdefense.com/challengedetails?cid=81>)
- Cron Jobs Gone Wild II (<https://attackdefense.com/challengedetails?cid=77>)
- Symlinks Get Me Worried! (<https://attackdefense.com/challengedetails?cid=91>)
- Not all PATHs are Secure (<https://attackdefense.com/challengedetails?cid=92>)
- Fallen Guardian (<https://attackdefense.com/challengedetails?cid=699>)
- Liberator Database (<https://attackdefense.com/challengedetails?cid=698>)
- Leveraging Message Transfer Agent (<https://attackdefense.com/challengedetails?cid=1340>)
- Leveraging X Windows System (<https://attackdefense.com/challengedetails?cid=700>)
- Shared Server (<https://attackdefense.com/challengedetails?cid=87>)
- CMS Admin to Root II (<https://attackdefense.com/challengedetails?cid=86>)
- Library Chaos (<https://attackdefense.com/challengedetails?cid=90>)
- Library Chaos II (<https://attackdefense.com/challengedetails?cid=98>)
- Load Order Matters (<https://attackdefense.com/challengedetails?cid=88>)

Session III

The following topics are covered in Session III

- Restricted Shells
- Chroot Jail
- Namespaces and Cgroups
- Introduction to Docker
- Compromising Docker Host via an exposed TCP socket

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List of labs covered during the session (and homework):

- Restricted Shell (<https://attackdefense.com/challengedetails?cid=97>)
- Chroot Jail I (<https://attackdefense.com/challengedetails?cid=1306>)
- Cgroups and Namespaces (<https://attackdefense.com/challengedetails?cid=2274>)
- Docker Basics (<https://attackdefense.com/challengedetails?cid=1342>)
- Exposed Docker Socket (<https://attackdefense.com/challengedetails?cid=1194>)

Session IV

The following topics are covered in Session IV

- Compromising Docker Host via mounted docker socket
- Breaking out of containers via management tools
- Sharing namespaces in docker
- Introduction to Linux Capabilities
 - History
 - Process and file capabilities
 - Linux Capabilities Sets
 - Identifying capabilities provided to binaries and running process
 - Managing capabilities
- Breaking out of privileged container
- Capability based container breakouts
 - CAP_DAC_READ_SEARCH
 - CAP_SYS_MODULE
 - CAP_SYS_ADMIN
 - CAP_SYS_PTRACE
- Abusing Linux Capabilities on Linux utilities and interpreters.
 - CAP_DAC_READ_SEARCH
 - CAP_SYS_MODULE
 - CAP_SYS_ADMIN
 - CAP_SYS_PTRACE

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- Mounted Docker Socket (<https://attackdefense.com/challengedetails?cid=1195>)
- Weakest Link (<https://attackdefense.com/challengedetails?cid=1415>)
- Shared Network Namespace (<https://attackdefense.com/challengedetails?cid=1460>)
- Privileged Container (<https://attackdefense.com/challengedetails?cid=1196>)
- Privileged Container II (<https://attackdefense.com/challengedetails?cid=1197>)
- Process Injection (<https://attackdefense.com/challengedetails?cid=1198>)
- Abusing SYS_MODULE Capability (<https://attackdefense.com/challengedetails?cid=1199>)
- Abusing DAC_READ_SEARCH Capability (<https://attackdefense.com/challengedetails?cid=1458>)
- The Basics: CAP_NET_RAW (<https://attackdefense.com/challengedetails?cid=1346>)
- The Basics: CAP_DAC_READ_SEARCH (<https://attackdefense.com/challengedetails?cid=1343>)
- The Basics: CAP_SYS_MODULE (<https://attackdefense.com/challengedetails?cid=1344>)
- The Basics: CAP_SYS_MODULE II (<https://attackdefense.com/challengedetails?cid=1345>)
- The Basics: CAP_SYS_ADMIN (<https://attackdefense.com/challengedetails?cid=1376>)
- The Basics: CAP_SYS_PTRACE (<https://attackdefense.com/challengedetails?cid=1412>)

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