



# CVE-2018-6981

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## Summary

|                        |  |
|------------------------|--|
| <b>CVE</b>             | CVE-2018-6981  |
| <b>State</b>           | PUBLIC   |
| <b>Assigner</b>        | security@vmware.com  |
| <b>Source Priority</b> | CVE Program / NVD first with legacy fallback   |
| <b>Published</b>       | 2018-12-04 14:29:00 UTC  |
| <b>Updated</b>         | 2022-02-03 19:49:00 UTC  |
| <b>Description</b>     | VMware ESXi 6.7 without ESXi670-201811401-BG and VMware ESXi 6.5 without ESXi650-201811301-BG, VMware ESXi |

## Risk And Classification

**Problem Types:** CWE-908

## NVD Known Affected Configurations (CPE 2.3)

| Type             | Vendor                 | Product                  | Version | Update        | Edition | Language |
|------------------|------------------------|--------------------------|---------|---------------|---------|----------|
| Operating System | <a href="#">Apple</a>  | <a href="#">Mac Os X</a> | -       | All           | All     | All      |
| Operating System | <a href="#">Apple</a>  | <a href="#">Mac Os X</a> | -       | All           | All     | All      |
| Operating System | <a href="#">Vmware</a> | <a href="#">Esxi</a>     | 6.0     | All           | All     | All      |
| Operating System | <a href="#">Vmware</a> | <a href="#">Esxi</a>     | 6.0     | -             | All     | All      |
| Operating System | <a href="#">Vmware</a> | <a href="#">Esxi</a>     | 6.0     | 1             | All     | All      |
| Operating System | <a href="#">Vmware</a> | <a href="#">Esxi</a>     | 6.0     | 1a            | All     | All      |
| Operating System | <a href="#">Vmware</a> | <a href="#">Esxi</a>     | 6.0     | 1b            | All     | All      |
| Operating System | <a href="#">Vmware</a> | <a href="#">Esxi</a>     | 6.0     | 2             | All     | All      |
| Operating System | <a href="#">Vmware</a> | <a href="#">Esxi</a>     | 6.0     | 3             | All     | All      |
| Operating System | <a href="#">Vmware</a> | <a href="#">Esxi</a>     | 6.0     | 3a            | All     | All      |
| Operating System | <a href="#">Vmware</a> | <a href="#">Esxi</a>     | 6.0     | 600-201504401 | All     | All      |
| Operating System | <a href="#">Vmware</a> | <a href="#">Esxi</a>     | 6.0     | 600-201505401 | All     | All      |
| Operating System | <a href="#">Vmware</a> | <a href="#">Esxi</a>     | 6.0     | 600-201507101 | All     | All      |
| Operating System | <a href="#">Vmware</a> | <a href="#">Esxi</a>     | 6.0     | 600-201507102 | All     | All      |
| Operating System | <a href="#">Vmware</a> | <a href="#">Esxi</a>     | 6.0     | 600-201507401 | All     | All      |
| Operating System | <a href="#">Vmware</a> | <a href="#">Esxi</a>     | 6.0     | 600-201507402 | All     | All      |
| Operating System | <a href="#">Vmware</a> | <a href="#">Esxi</a>     | 6.0     | 600-201507403 | All     | All      |

|                  |        |      |     |               |     |     |
|------------------|--------|------|-----|---------------|-----|-----|
| Operating System | Vmware | Esxi | 6.0 | 600-201507404 | All | All |
| Operating System | Vmware | Esxi | 6.0 | 600-201507405 | All | All |
| Operating System | Vmware | Esxi | 6.0 | 600-201507406 | All | All |
| Operating System | Vmware | Esxi | 6.0 | 600-201507407 | All | All |
| Operating System | Vmware | Esxi | 6.0 | 600-201509101 | All | All |
| Operating System | Vmware | Esxi | 6.0 | 600-201509102 | All | All |
| Operating System | Vmware | Esxi | 6.0 | 600-201509201 | All | All |
| Operating System | Vmware | Esxi | 6.0 | 600-201509202 | All | All |
| Operating System | Vmware | Esxi | 6.0 | 600-201509203 | All | All |
| Operating System | Vmware | Esxi | 6.0 | 600-201509204 | All | All |
| Operating System | Vmware | Esxi | 6.0 | 600-201509205 | All | All |
| Operating System | Vmware | Esxi | 6.0 | 600-201509206 | All | All |
| Operating System | Vmware | Esxi | 6.0 | 600-201509207 | All | All |
| Operating System | Vmware | Esxi | 6.0 | 600-201509208 | All | All |
| Operating System | Vmware | Esxi | 6.0 | 600-201509209 | All | All |
| Operating System | Vmware | Esxi | 6.0 | 600-201509210 | All | All |
| Operating System | Vmware | Esxi | 6.0 | 600-201510401 | All | All |
| Operating System | Vmware | Esxi | 6.0 | 600-201511401 | All | All |
| Operating System | Vmware | Esxi | 6.0 | 600-201601101 | All | All |
| Operating System | Vmware | Esxi | 6.0 | 600-201601102 | All | All |
| Operating System | Vmware | Esxi | 6.0 | 600-201601401 | All | All |
| Operating System | Vmware | Esxi | 6.0 | 600-201601402 | All | All |
| Operating System | Vmware | Esxi | 6.0 | 600-201601403 | All | All |
| Operating System | Vmware | Esxi | 6.0 | 600-201601404 | All | All |
| Operating System | Vmware | Esxi | 6.0 | 600-201601405 | All | All |
| Operating System | Vmware | Esxi | 6.0 | 600-201602401 | All | All |
| Operating System | Vmware | Esxi | 6.0 | 600-201603101 | All | All |
| Operating System | Vmware | Esxi | 6.0 | 600-201603102 | All | All |
| Operating System | Vmware | Esxi | 6.0 | 600-201603201 | All | All |
| Operating System | Vmware | Esxi | 6.0 | 600-201603202 | All | All |
| Operating System | Vmware | Esxi | 6.0 | 600-201603203 | All | All |
| Operating System | Vmware | Esxi | 6.0 | 600-201603204 | All | All |
| Operating System | Vmware | Esxi | 6.0 | 600-201603205 | All | All |
| Operating System | Vmware | Esxi | 6.0 | 600-201603206 | All | All |
| Operating System | Vmware | Esxi | 6.0 | 600-201603207 | All | All |

|                  |        |      |     |               |     |     |
|------------------|--------|------|-----|---------------|-----|-----|
| Operating System | Vmware | Esxi | 6.0 | 600-201603208 | All | All |
| Operating System | Vmware | Esxi | 6.0 | 600-201605401 | All | All |
| Operating System | Vmware | Esxi | 6.0 | 600-201608101 | All | All |
| Operating System | Vmware | Esxi | 6.0 | 600-201608401 | All | All |
| Operating System | Vmware | Esxi | 6.0 | 600-201608402 | All | All |
| Operating System | Vmware | Esxi | 6.0 | 600-201608403 | All | All |
| Operating System | Vmware | Esxi | 6.0 | 600-201608404 | All | All |
| Operating System | Vmware | Esxi | 6.0 | 600-201608405 | All | All |
| Operating System | Vmware | Esxi | 6.0 | 600-201610410 | All | All |
| Operating System | Vmware | Esxi | 6.0 | 600-201611401 | All | All |
| Operating System | Vmware | Esxi | 6.0 | 600-201611402 | All | All |
| Operating System | Vmware | Esxi | 6.0 | 600-201611403 | All | All |
| Operating System | Vmware | Esxi | 6.0 | 600-201702101 | All | All |
| Operating System | Vmware | Esxi | 6.0 | 600-201702102 | All | All |
| Operating System | Vmware | Esxi | 6.0 | 600-201702201 | All | All |
| Operating System | Vmware | Esxi | 6.0 | 600-201702202 | All | All |
| Operating System | Vmware | Esxi | 6.0 | 600-201702203 | All | All |
| Operating System | Vmware | Esxi | 6.0 | 600-201702204 | All | All |
| Operating System | Vmware | Esxi | 6.0 | 600-201702205 | All | All |
| Operating System | Vmware | Esxi | 6.0 | 600-201702206 | All | All |
| Operating System | Vmware | Esxi | 6.0 | 600-201702207 | All | All |
| Operating System | Vmware | Esxi | 6.0 | 600-201702208 | All | All |
| Operating System | Vmware | Esxi | 6.0 | 600-201702209 | All | All |
| Operating System | Vmware | Esxi | 6.0 | 600-201702210 | All | All |
| Operating System | Vmware | Esxi | 6.0 | 600-201702211 | All | All |
| Operating System | Vmware | Esxi | 6.0 | 600-201702212 | All | All |
| Operating System | Vmware | Esxi | 6.0 | 600-201703401 | All | All |
| Operating System | Vmware | Esxi | 6.0 | 600-201706101 | All | All |
| Operating System | Vmware | Esxi | 6.0 | 600-201706102 | All | All |
| Operating System | Vmware | Esxi | 6.0 | 600-201706103 | All | All |
| Operating System | Vmware | Esxi | 6.0 | 600-201706401 | All | All |
| Operating System | Vmware | Esxi | 6.0 | 600-201706402 | All | All |
| Operating System | Vmware | Esxi | 6.0 | 600-201706403 | All | All |
| Operating System | Vmware | Esxi | 6.0 | 600-201710301 | All | All |
| Operating System | Vmware | Esxi | 6.0 | 600-201811001 | All | All |

|                  |        |      |     |               |     |     |
|------------------|--------|------|-----|---------------|-----|-----|
| Operating System | Vmware | Esxi | 6.5 | All           | All | All |
| Operating System | Vmware | Esxi | 6.5 | -             | All | All |
| Operating System | Vmware | Esxi | 6.5 | 650-201701001 | All | All |
| Operating System | Vmware | Esxi | 6.5 | 650-201703001 | All | All |
| Operating System | Vmware | Esxi | 6.5 | 650-201703002 | All | All |
| Operating System | Vmware | Esxi | 6.5 | 650-201704001 | All | All |
| Operating System | Vmware | Esxi | 6.5 | 650-201707101 | All | All |
| Operating System | Vmware | Esxi | 6.5 | 650-201707102 | All | All |
| Operating System | Vmware | Esxi | 6.5 | 650-201707103 | All | All |
| Operating System | Vmware | Esxi | 6.5 | 650-201707201 | All | All |
| Operating System | Vmware | Esxi | 6.5 | 650-201707202 | All | All |
| Operating System | Vmware | Esxi | 6.5 | 650-201707203 | All | All |
| Operating System | Vmware | Esxi | 6.5 | 650-201707204 | All | All |
| Operating System | Vmware | Esxi | 6.5 | 650-201707205 | All | All |
| Operating System | Vmware | Esxi | 6.5 | 650-201707206 | All | All |
| Operating System | Vmware | Esxi | 6.5 | 650-201707207 | All | All |
| Operating System | Vmware | Esxi | 6.5 | 650-201707208 | All | All |
| Operating System | Vmware | Esxi | 6.5 | 650-201707209 | All | All |
| Operating System | Vmware | Esxi | 6.5 | 650-201707210 | All | All |
| Operating System | Vmware | Esxi | 6.5 | 650-201707211 | All | All |
| Operating System | Vmware | Esxi | 6.5 | 650-201707212 | All | All |
| Operating System | Vmware | Esxi | 6.5 | 650-201707213 | All | All |
| Operating System | Vmware | Esxi | 6.5 | 650-201707214 | All | All |
| Operating System | Vmware | Esxi | 6.5 | 650-201707215 | All | All |
| Operating System | Vmware | Esxi | 6.5 | 650-201707216 | All | All |
| Operating System | Vmware | Esxi | 6.5 | 650-201707217 | All | All |
| Operating System | Vmware | Esxi | 6.5 | 650-201707218 | All | All |
| Operating System | Vmware | Esxi | 6.5 | 650-201707219 | All | All |
| Operating System | Vmware | Esxi | 6.5 | 650-201707220 | All | All |
| Operating System | Vmware | Esxi | 6.5 | 650-201707221 | All | All |
| Operating System | Vmware | Esxi | 6.5 | 650-201710001 | All | All |
| Operating System | Vmware | Esxi | 6.5 | 650-201712001 | All | All |
| Operating System | Vmware | Esxi | 6.5 | 650-201803001 | All | All |
| Operating System | Vmware | Esxi | 6.5 | 650-201806001 | All | All |
| Operating System | Vmware | Esxi | 6.5 | 650-201808001 | All | All |
| Operating System | Vmware | Esxi | 6.5 | 650-201810001 | All | All |

|                  |        |      |     |               |     |     |
|------------------|--------|------|-----|---------------|-----|-----|
| Operating System | Vmware | Esxi | 6.5 | 650-201810002 | All | All |
| Operating System | Vmware | Esxi | 6.5 | 650-201811001 | All | All |
| Operating System | Vmware | Esxi | 6.5 | 650-201811002 | All | All |
| Operating System | Vmware | Esxi | 6.7 | All           | All | All |
| Operating System | Vmware | Esxi | 6.7 | -             | All | All |
| Operating System | Vmware | Esxi | 6.7 | 670-201806001 | All | All |
| Operating System | Vmware | Esxi | 6.7 | 670-201807001 | All | All |
| Operating System | Vmware | Esxi | 6.7 | 670-201808001 | All | All |
| Operating System | Vmware | Esxi | 6.7 | 670-201810001 | All | All |
| Operating System | Vmware | Esxi | 6.7 | 670-201810101 | All | All |
| Operating System | Vmware | Esxi | 6.7 | 670-201810102 | All | All |
| Operating System | Vmware | Esxi | 6.7 | 670-201810103 | All | All |
| Operating System | Vmware | Esxi | 6.7 | 670-201810201 | All | All |
| Operating System | Vmware | Esxi | 6.7 | 670-201810202 | All | All |
| Operating System | Vmware | Esxi | 6.7 | 670-201810203 | All | All |
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| Operating System | Vmware | Esxi | 6.7 | 670-201810205 | All | All |
| Operating System | Vmware | Esxi | 6.7 | 670-201810206 | All | All |
| Operating System | Vmware | Esxi | 6.7 | 670-201810207 | All | All |
| Operating System | Vmware | Esxi | 6.7 | 670-201810208 | All | All |
| Operating System | Vmware | Esxi | 6.7 | 670-201810209 | All | All |
| Operating System | Vmware | Esxi | 6.7 | 670-201810210 | All | All |
| Operating System | Vmware | Esxi | 6.7 | 670-201810211 | All | All |
| Operating System | Vmware | Esxi | 6.7 | 670-201810212 | All | All |
| Operating System | Vmware | Esxi | 6.7 | 670-201810213 | All | All |
| Operating System | Vmware | Esxi | 6.7 | 670-201810214 | All | All |
| Operating System | Vmware | Esxi | 6.7 | 670-201810215 | All | All |
| Operating System | Vmware | Esxi | 6.7 | 670-201810216 | All | All |
| Operating System | Vmware | Esxi | 6.7 | 670-201810217 | All | All |
| Operating System | Vmware | Esxi | 6.7 | 670-201810218 | All | All |
| Operating System | Vmware | Esxi | 6.7 | 670-201810219 | All | All |
| Operating System | Vmware | Esxi | 6.7 | 670-201810220 | All | All |
| Operating System | Vmware | Esxi | 6.7 | 670-201810221 | All | All |
| Operating System | Vmware | Esxi | 6.7 | 670-201810222 | All | All |
| Operating System | Vmware | Esxi | 6.7 | 670-201810223 | All | All |

|                  |                        |                             |        |               |     |     |
|------------------|------------------------|-----------------------------|--------|---------------|-----|-----|
| Operating System | <a href="#">Vmware</a> | <a href="#">Esxi</a>        | 6.7    | 670-201810224 | All | All |
| Operating System | <a href="#">Vmware</a> | <a href="#">Esxi</a>        | 6.7    | 670-201810225 | All | All |
| Operating System | <a href="#">Vmware</a> | <a href="#">Esxi</a>        | 6.7    | 670-201810226 | All | All |
| Operating System | <a href="#">Vmware</a> | <a href="#">Esxi</a>        | 6.7    | 670-201810227 | All | All |
| Operating System | <a href="#">Vmware</a> | <a href="#">Esxi</a>        | 6.7    | 670-201810228 | All | All |
| Operating System | <a href="#">Vmware</a> | <a href="#">Esxi</a>        | 6.7    | 670-201810229 | All | All |
| Operating System | <a href="#">Vmware</a> | <a href="#">Esxi</a>        | 6.7    | 670-201810230 | All | All |
| Operating System | <a href="#">Vmware</a> | <a href="#">Esxi</a>        | 6.7    | 670-201810231 | All | All |
| Operating System | <a href="#">Vmware</a> | <a href="#">Esxi</a>        | 6.7    | 670-201810232 | All | All |
| Operating System | <a href="#">Vmware</a> | <a href="#">Esxi</a>        | 6.7    | 670-201810233 | All | All |
| Operating System | <a href="#">Vmware</a> | <a href="#">Esxi</a>        | 6.7    | 670-201810234 | All | All |
| Operating System | <a href="#">Vmware</a> | <a href="#">Esxi</a>        | 6.7    | 670-201811001 | All | All |
| Operating System | <a href="#">Vmware</a> | <a href="#">Esxi</a>        | 6.0    | All           | All | All |
| Operating System | <a href="#">Vmware</a> | <a href="#">Esxi</a>        | 6.5    | All           | All | All |
| Operating System | <a href="#">Vmware</a> | <a href="#">Esxi</a>        | 6.7    | All           | All | All |
| Application      | <a href="#">Vmware</a> | <a href="#">Fusion</a>      | All    | All           | All | All |
| Application      | <a href="#">Vmware</a> | <a href="#">Fusion</a>      | 11.0.0 | All           | All | All |
| Application      | <a href="#">Vmware</a> | <a href="#">Fusion</a>      | All    | All           | All | All |
| Application      | <a href="#">Vmware</a> | <a href="#">Fusion</a>      | 11.0.0 | All           | All | All |
| Application      | <a href="#">Vmware</a> | <a href="#">Workstation</a> | All    | All           | All | All |
| Application      | <a href="#">Vmware</a> | <a href="#">Workstation</a> | 15.0.0 | All           | All | All |
| Application      | <a href="#">Vmware</a> | <a href="#">Workstation</a> | All    | All           | All | All |
| Application      | <a href="#">Vmware</a> | <a href="#">Workstation</a> | 15.0.0 | All           | All | All |

## References

### Reference

VMware ESXi vmxnet3 Stack Memory Initialization Bugs Let Remote Users on a Guest System Gain Elevated Privileges on the Host System -

VMSA-2018-0027

Multiple VMware Products CVE-2018-6981 Remote Code Execution Vulnerability

VMware vmxnet3 Stack Memory Initialization Lets Remote Users on a Guest System Gain Elevated Privileges on the Host System - SecurityT

CVE Program record

NVD vulnerability detail



No vendor comments have been submitted for this CVE.

There are currently no legacy QID mappings associated with this CVE.

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